



## PMI RESEARCH & DEVELOPMENT

### Study ZRHM-REXA-07-JP Clinical Study Report Appendix 15.4 Statistical Output

**Study Title:** A randomized, controlled, open-label, 3-arm parallel group, multi-center study to demonstrate reductions in exposure to selected smoke constituents in healthy smokers switching to the Tobacco Heating System 2.2 Menthol (THS 2.2 Menthol) or observing smoking abstinence, compared to continuing to use menthol conventional cigarettes, for 5 days in confinement and prolonged by 85 days in an ambulatory setting

**Study Number:** ZRHM-REXA-07-JP

**Product Name:** Tobacco Heating System 2.2 Menthol (THS 2.2 Menthol)

**Study Initiated (first subject screened):** 01 August 2013

**Study Completed (last subject last visit):** 03 July 2014

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**Version:** 1.0

**Date:** "46"Hgdtwct{"4238

This study was conducted in accordance with Good Clinical Practice.

#### Confidentiality Statement

This document is confidential. Disclosure of any of its contents to third parties is not permitted except by the prior written consent of Philip Morris Products S.A.



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## **15.4 STATISTICAL OUTPUT**



### **15.4.1 Disposition and Background Data**

Not applicable.





## **15.4.2 Product Use**

Not applicable.



### **15.4.3 Primary Endpoints**



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**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	139.4132500	27.8826500	94.24	<.0001
Error	151	44.6784116	0.2958835		
Corrected Total	156	184.0916616			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.757303	11.00362	0.543952	4.943391

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.8168261	15.8168261	53.46	<.0001
SEX	1	0.8933444	0.8933444	3.02	0.0843
UCPDGR1	1	0.4437164	0.4437164	1.50	0.2226
TRTP	2	122.2593631	61.1296816	206.60	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.0299875	9.0299875	30.52	<.0001
SEX	1	1.6485257	1.6485257	5.57	0.0195
UCPDGR1	1	0.0034972	0.0034972	0.01	0.9136
TRTP	2	122.2593631	61.1296816	206.60	<.0001

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	<.0001
<b>THSm2.2</b>	4.42137632	<.0001
<b>mCC</b>	6.42492942	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.999249	-2.239230	-1.759267
<b>2 3</b>	-2.003553	-2.210825	-1.796282

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	
<b>THSm2.2</b>	4.42137632	0.9680
<b>mCC</b>	6.42492942	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.004304	-0.216087	0.207479
<b>3 1</b>	1.999249	1.759267	2.239230

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	34.87394520	6.97478904	68.60	<.0001
Error	151	15.35367575	0.10167997		
Corrected Total	156	50.22762095			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.694318	5.521601	0.318873	5.775009

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.91029010	5.91029010	58.13	<.0001
SEX	1	0.00039718	0.00039718	0.00	0.9502
UCPDGR1	1	0.16086863	0.16086863	1.58	0.2104
TRTP	2	28.80238929	14.40119465	141.63	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.22906923	7.22906923	71.10	<.0001
SEX	1	0.01127854	0.01127854	0.11	0.7396
UCPDGR1	1	0.10819730	0.10819730	1.06	0.3039
TRTP	2	28.80238929	14.40119465	141.63	<.0001



**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	<.0001
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.185964	-1.326314	-1.045614
<b>2 3</b>	-0.679911	-0.801174	-0.558648

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.506053	0.381895	0.630211
<b>3 1</b>	1.185964	1.045614	1.326314

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	196.3255759	39.2651152	199.65	<.0001
Error	151	29.6975154	0.1966723		
Corrected Total	156	226.0230913			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.868608	8.314890	0.443477	5.333534

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.7450455	39.7450455	202.09	<.0001
SEX	1	0.0389029	0.0389029	0.20	0.6571
UCPDGR1	1	0.2997712	0.2997712	1.52	0.2189
TRTP	2	156.2418563	78.1209282	397.21	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.5763021	32.5763021	165.64	<.0001
SEX	1	0.3160312	0.3160312	1.61	0.2069
UCPDGR1	1	0.0016463	0.0016463	0.01	0.9272
TRTP	2	156.2418563	78.1209282	397.21	<.0001

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.65230095	<.0001
<b>THSm2.2</b>	4.78066546	<.0001
<b>mCC</b>	6.99107463	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.652301	4.511680 4.792922
<b>THSm2.2</b>	4.780665	4.679686 4.881645
<b>mCC</b>	6.991075	6.854854 7.127295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.338774	-2.533871	-2.143676
<b>2 3</b>	-2.210409	-2.379073	-2.041746

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.65230095	
<b>THSm2.2</b>	4.78066546	0.1438
<b>mCC</b>	6.99107463	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.652301	4.511680 4.792922
<b>THSm2.2</b>	4.780665	4.679686 4.881645
<b>mCC</b>	6.991075	6.854854 7.127295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.128365	-0.044246	0.300975
<b>3 1</b>	2.338774	2.143676	2.533871

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	21.28912900	4.25782580	145.44	<.0001
Error	151	4.42056169	0.02927524		
Corrected Total	156	25.70969069			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.828059	15.19680	0.171100	1.125896

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.29937169	1.29937169	44.38	<.0001
SEX	1	0.45696868	0.45696868	15.61	0.0001
UCPDGR1	1	0.01526889	0.01526889	0.52	0.4713
TRTP	2	19.51751974	9.75875987	333.35	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.96922081	0.96922081	33.11	<.0001
SEX	1	0.31246296	0.31246296	10.67	0.0013
UCPDGR1	1	0.00171734	0.00171734	0.06	0.8090
TRTP	2	19.51751974	9.75875987	333.35	<.0001



**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.91068301	<.0001
<b>THSm2.2</b>	0.90375864	<.0001
<b>mCC</b>	1.70350654	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.910683	0.856429 0.964937
<b>THSm2.2</b>	0.903759	0.864801 0.942716
<b>mCC</b>	1.703507	1.650993 1.756020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.792824	-0.868050	-0.717597
<b>2 3</b>	-0.799748	-0.864818	-0.734678

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.91068301	
<b>THSm2.2</b>	0.90375864	0.8375
<b>mCC</b>	1.70350654	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.910683	0.856429 0.964937
<b>THSm2.2</b>	0.903759	0.864801 0.942716
<b>mCC</b>	1.703507	1.650993 1.756020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.006924	-0.073518	0.059669
<b>3 1</b>	0.792824	0.717597	0.868050

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	121.2968047	24.2593609	43.49	<.0001
Error	142	79.2016425	0.5577580		
Corrected Total	147	200.4984472			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.604976	21.91261	0.746832	3.408229

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.07257303	39.07257303	70.05	<.0001
SEX	1	0.33115853	0.33115853	0.59	0.4423
UCPDGR1	1	1.96890197	1.96890197	3.53	0.0623
TRTP	2	79.92417117	39.96208558	71.65	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.44606466	27.44606466	49.21	<.0001
SEX	1	0.15282231	0.15282231	0.27	0.6015
UCPDGR1	1	2.89870021	2.89870021	5.20	0.0241
TRTP	2	79.92417117	39.96208558	71.65	<.0001

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70130848	<.0001
<b>THSm2.2</b>	3.11244960	<.0001
<b>mCC</b>	4.57110844	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.701308	2.457312 2.945305
<b>THSm2.2</b>	3.112450	2.935169 3.289731
<b>mCC</b>	4.571108	4.339046 4.803171

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.869800	-2.205027	-1.534573
<b>2 3</b>	-1.458659	-1.749430	-1.167888

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.1 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70130848	
<b>THSm2.2</b>	3.11244960	0.0078
<b>mCC</b>	4.57110844	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.701308	2.457312 2.945305
<b>THSm2.2</b>	3.112450	2.935169 3.289731
<b>mCC</b>	4.571108	4.339046 4.803171

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.411141	0.110009	0.712273
<b>3 1</b>	1.869800	1.534573	2.205027

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.2 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective using Mixed Model- PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>Levels</b>	<b>Values</b>
<b>TRTP</b>	3	SA THSm2.2 mCC
<b>SEX</b>	2	F M
<b>UCPDGR1</b>	2	10-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.2968

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	267.2
<b>AIC (Smaller is Better)</b>	269.2
<b>AICC (Smaller is Better)</b>	269.3
<b>BIC (Smaller is Better)</b>	272.2

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>Num Den</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	29.23	<.0001
<b>SEX</b>	1	150	5.36	0.0220
<b>UCPDGR1</b>	1	150	0.00	0.9813
<b>TRTP</b>	2	150	203.94	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	4.4266	0.08749	150	50.60	<.0001	0.05	4.2538	4.5995
<b>TRTP</b>	THSm2.2	4.4226	0.06277	150	70.45	<.0001	0.05	4.2985	4.5466
<b>TRTP</b>	mCC	6.4367	0.08600	150	74.85	<.0001	0.05	6.2668	6.6066
<b>TRTP</b>	SA	4.4266	0.08749	150	50.60	<.0001	0.05	4.2538	4.5995
<b>TRTP</b>	THSm2.2	4.4226	0.06277	150	70.45	<.0001	0.05	4.2985	4.5466
<b>TRTP</b>	mCC	6.4367	0.08600	150	74.85	<.0001	0.05	6.2668	6.6066





Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-2.0100	0.1225	150	-16.41	<.0001	0.05	-2.2521 -1.7680
TRTP	THSm2.2	mCC	-2.0141	0.1060	150	-19.00	<.0001	0.05	-2.2236 -1.8047
TRTP	THSm2.2	SA	-0.00407	0.1073	150	-0.04	0.9698	0.05	-0.2162 0.2080
TRTP	mCC	SA	2.0100	0.1225	150	16.41	<.0001	0.05	1.7680 2.2521

**Listing 15.4.3.1.2 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective using Mixed Model- PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>Levels</b>	<b>Values</b>
<b>TRTP</b>	3	SA THSm2.2 mCC
<b>SEX</b>	2	F M
<b>UCPDGR1</b>	2	10-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1006
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	103.7
<b>AIC (Smaller is Better)</b>	105.7
<b>AICC (Smaller is Better)</b>	105.7
<b>BIC (Smaller is Better)</b>	108.7

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	68.17	<.0001
<b>SEX</b>	1	150	0.20	0.6546
<b>UCPDGR1</b>	1	150	1.25	0.2650
<b>TRTP</b>	2	150	137.65	<.0001

**Least Squares Means  
Standard**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	<b>SA</b>	5.2115	0.05098	150	102.23	<.0001	0.05	5.1107	5.3122



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	5.7172	0.03656	150	156.38	<.0001	0.05	5.6450 5.7894
TRTP	mCC	6.3843	0.04986	150	128.04	<.0001	0.05	6.2858 6.4828
TRTP	SA	5.2115	0.05098	150	102.23	<.0001	0.05	5.1107 5.3122
TRTP	THSm2.2	5.7172	0.03656	150	156.38	<.0001	0.05	5.6450 5.7894
TRTP	mCC	6.3843	0.04986	150	128.04	<.0001	0.05	6.2858 6.4828

		Differences of Least Squares Means						
Planned		Planned		Standard				
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.1728	0.07113	150	-16.49	<.0001	0.05 -1.3134 -1.0323
TRTP	THSm2.2	mCC	-0.6671	0.06157	150	-10.84	<.0001	0.05 -0.7887 -0.5454
TRTP	THSm2.2	SA	0.5057	0.06251	150	8.09	<.0001	0.05 0.3822 0.6292
TRTP	mCC	SA	1.1728	0.07113	150	16.49	<.0001	0.05 1.0323 1.3134

**Listing 15.4.3.1.2 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective using Mixed Model- PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>Levels</b>	<b>Values</b>
<b>TRTP</b>	3	SA THSm2.2 mCC
<b>SEX</b>	2	F M
<b>UCPDGR1</b>	2	10-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1966
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	205.5
<b>AIC (Smaller is Better)</b>	207.5
<b>AICC (Smaller is Better)</b>	207.5
<b>BIC (Smaller is Better)</b>	210.5

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	160.86	<.0001
<b>SEX</b>	1	150	1.48	0.2252
<b>UCPDGR1</b>	1	150	0.00	0.9802
<b>TRTP</b>	2	150	393.77	<.0001

**Least Squares Means**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	<b>SA</b>	4.6552	0.07116	150	65.42	<.0001	0.05	4.5146	4.7958



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	4.7837	0.05109	150	93.63	<.0001	0.05	4.6828 4.8847
TRTP	mCC	7.0057	0.06979	150	100.38	<.0001	0.05	6.8678 7.1436
TRTP	SA	4.6552	0.07116	150	65.42	<.0001	0.05	4.5146 4.7958
TRTP	THSm2.2	4.7837	0.05109	150	93.63	<.0001	0.05	4.6828 4.8847
TRTP	mCC	7.0057	0.06979	150	100.38	<.0001	0.05	6.8678 7.1436

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.3504	0.09936	150	-23.65	<.0001	0.05 -2.5468 -2.1541
TRTP	THSm2.2	mCC	-2.2219	0.08607	150	-25.81	<.0001	0.05 -2.3920 -2.0519
TRTP	THSm2.2	SA	0.1285	0.08734	150	1.47	0.1433	0.05 -0.04408 0.3011
TRTP	mCC	SA	2.3504	0.09936	150	23.65	<.0001	0.05 2.1541 2.5468

**Listing 15.4.3.1.2 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective using Mixed Model- PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: COHb (%), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>Levels</b>	<b>Values</b>
<b>TRTP</b>	3	SA THSm2.2 mCC
<b>SEX</b>	2	F M
<b>UCPDGR1</b>	2	10-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.02947
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	-81.4
<b>AIC (Smaller is Better)</b>	-79.4
<b>AICC (Smaller is Better)</b>	-79.4
<b>BIC (Smaller is Better)</b>	-76.4

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	32.90	<.0001
<b>SEX</b>	1	150	10.60	0.0014
<b>UCPDGR1</b>	1	150	0.06	0.8045
<b>TRTP</b>	2	150	325.54	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	0.9104	0.02755	150	33.05	<.0001	0.05	0.8560	0.9649



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	0.9035	0.01978	150	45.67	<.0001	0.05	0.8644 0.9426
TRTP	mCC	1.7036	0.02698	150	63.14	<.0001	0.05	1.6503 1.7570
TRTP	SA	0.9104	0.02755	150	33.05	<.0001	0.05	0.8560 0.9649
TRTP	THSm2.2	0.9035	0.01978	150	45.67	<.0001	0.05	0.8644 0.9426
TRTP	mCC	1.7036	0.02698	150	63.14	<.0001	0.05	1.6503 1.7570

		Differences of Least Squares Means							
Planned		Standard							
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.7932	0.03843	150	-20.64	<.0001	0.05	-0.8691 -0.7173
TRTP	THSm2.2	mCC	-0.8001	0.03331	150	-24.02	<.0001	0.05	-0.8659 -0.7343
TRTP	THSm2.2	SA	-0.00692	0.03382	150	-0.20	0.8380	0.05	-0.07374 0.05989
TRTP	mCC	SA	0.7932	0.03843	150	20.64	<.0001	0.05	0.7173 0.8691

**Listing 15.4.3.1.2 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective using Mixed Model- PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.5616
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	341.7
<b>AIC (Smaller is Better)</b>	343.7
<b>AICC (Smaller is Better)</b>	343.7
<b>BIC (Smaller is Better)</b>	346.6

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	48.91	<.0001
<b>SEX</b>	1	141	0.25	0.6144
<b>UCPDGR1</b>	1	141	5.20	0.0241
<b>TRTP</b>	2	141	71.14	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	2.7027	0.1239	141	21.82	<.0001	0.05	2.4579 2.9476



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	3.1117	0.09056	141	34.36	<.0001	0.05	2.9327 3.2908
TRTP	mCC	4.5726	0.1178	141	38.82	<.0001	0.05	4.3397 4.8055
TRTP	SA	2.7027	0.1239	141	21.82	<.0001	0.05	2.4579 2.9476
TRTP	THSm2.2	3.1117	0.09056	141	34.36	<.0001	0.05	2.9327 3.2908
TRTP	mCC	4.5726	0.1178	141	38.82	<.0001	0.05	4.3397 4.8055

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.8698	0.1702	141	-10.99	<.0001	0.05 -2.2062 -1.5334
TRTP	THSm2.2	mCC	-1.4608	0.1481	141	-9.87	<.0001	0.05 -1.7535 -1.1681
TRTP	THSm2.2	SA	0.4090	0.1533	141	2.67	0.0085	0.05 0.1060 0.7120
TRTP	mCC	SA	1.8698	0.1702	141	10.99	<.0001	0.05 1.5334 2.2062



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**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Class Level Information		
Class	Levels	Values
TRTP	3	SA THSm2.2 mCC
SEX	2	F M
UCPDGR1	2	10-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	139.4132500	27.8826500	94.24	<.0001
Error	151	44.6784116	0.2958835		
Corrected Total	156	184.0916616			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.757303	11.00362	0.543952	4.943391

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.8168261	15.8168261	53.46	<.0001
SEX	1	0.8933444	0.8933444	3.02	0.0843
UCPDGR1	1	0.4437164	0.4437164	1.50	0.2226
TRTP	2	122.2593631	61.1296816	206.60	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.0299875	9.0299875	30.52	<.0001
SEX	1	1.6485257	1.6485257	5.57	0.0195
UCPDGR1	1	0.0034972	0.0034972	0.01	0.9136
TRTP	2	122.2593631	61.1296816	206.60	<.0001

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	<.0001
<b>THSm2.2</b>	4.42137632	<.0001
<b>mCC</b>	6.42492942	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.999249	-2.239230	-1.759267
<b>2 3</b>	-2.003553	-2.210825	-1.796282

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	
<b>THSm2.2</b>	4.42137632	0.9680
<b>mCC</b>	6.42492942	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.004304	-0.216087	0.207479
<b>3 1</b>	1.999249	1.759267	2.239230

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	34.87394520	6.97478904	68.60	<.0001
Error	151	15.35367575	0.10167997		
Corrected Total	156	50.22762095			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.694318	5.521601	0.318873	5.775009

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.91029010	5.91029010	58.13	<.0001
SEX	1	0.00039718	0.00039718	0.00	0.9502
UCPDGR1	1	0.16086863	0.16086863	1.58	0.2104
TRTP	2	28.80238929	14.40119465	141.63	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.22906923	7.22906923	71.10	<.0001
SEX	1	0.01127854	0.01127854	0.11	0.7396
UCPDGR1	1	0.10819730	0.10819730	1.06	0.3039
TRTP	2	28.80238929	14.40119465	141.63	<.0001

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	<.0001
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.185964	-1.326314	-1.045614
<b>2 3</b>	-0.679911	-0.801174	-0.558648

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.506053	0.381895	0.630211
<b>3 1</b>	1.185964	1.045614	1.326314

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	196.3255759	39.2651152	199.65	<.0001
Error	151	29.6975154	0.1966723		
Corrected Total	156	226.0230913			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.868608	8.314890	0.443477	5.333534

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.7450455	39.7450455	202.09	<.0001
SEX	1	0.0389029	0.0389029	0.20	0.6571
UCPDGR1	1	0.2997712	0.2997712	1.52	0.2189
TRTP	2	156.2418563	78.1209282	397.21	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.5763021	32.5763021	165.64	<.0001
SEX	1	0.3160312	0.3160312	1.61	0.2069
UCPDGR1	1	0.0016463	0.0016463	0.01	0.9272
TRTP	2	156.2418563	78.1209282	397.21	<.0001

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.65230095	<.0001
<b>THSm2.2</b>	4.78066546	<.0001
<b>mCC</b>	6.99107463	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.652301	4.511680 4.792922
<b>THSm2.2</b>	4.780665	4.679686 4.881645
<b>mCC</b>	6.991075	6.854854 7.127295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.338774	-2.533871	-2.143676
<b>2 3</b>	-2.210409	-2.379073	-2.041746

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.65230095	
<b>THSm2.2</b>	4.78066546	0.1438
<b>mCC</b>	6.99107463	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.652301	4.511680 4.792922
<b>THSm2.2</b>	4.780665	4.679686 4.881645
<b>mCC</b>	6.991075	6.854854 7.127295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.128365	-0.044246	0.300975
<b>3 1</b>	2.338774	2.143676	2.533871

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	21.28912900	4.25782580	145.44	<.0001
Error	151	4.42056169	0.02927524		
Corrected Total	156	25.70969069			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.828059	15.19680	0.171100	1.125896

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.29937169	1.29937169	44.38	<.0001
SEX	1	0.45696868	0.45696868	15.61	0.0001
UCPDGR1	1	0.01526889	0.01526889	0.52	0.4713
TRTP	2	19.51751974	9.75875987	333.35	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.96922081	0.96922081	33.11	<.0001
SEX	1	0.31246296	0.31246296	10.67	0.0013
UCPDGR1	1	0.00171734	0.00171734	0.06	0.8090
TRTP	2	19.51751974	9.75875987	333.35	<.0001

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.91068301	<.0001
<b>THSm2.2</b>	0.90375864	<.0001
<b>mCC</b>	1.70350654	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.910683	0.856429 0.964937
<b>THSm2.2</b>	0.903759	0.864801 0.942716
<b>mCC</b>	1.703507	1.650993 1.756020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.792824	-0.868050	-0.717597
<b>2 3</b>	-0.799748	-0.864818	-0.734678

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.91068301	
<b>THSm2.2</b>	0.90375864	0.8375
<b>mCC</b>	1.70350654	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	0.910683	0.856429	0.964937
<b>THSm2.2</b>	0.903759	0.864801	0.942716
<b>mCC</b>	1.703507	1.650993	1.756020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.006924	-0.073518	0.059669
<b>3 1</b>	0.792824	0.717597	0.868050

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	119.5346787	23.9069357	43.30	<.0001
Error	137	75.6374867	0.5520984		
Corrected Total	142	195.1721654			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.612458	21.81411	0.743033	3.406204

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	37.35459607	37.35459607	67.66	<.0001
SEX	1	0.07237096	0.07237096	0.13	0.7179
UCPDGR1	1	1.50309736	1.50309736	2.72	0.1012
TRTP	2	80.60461435	40.30230717	73.00	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.85870666	26.85870666	48.65	<.0001
SEX	1	0.01171442	0.01171442	0.02	0.8844
UCPDGR1	1	2.40221620	2.40221620	4.35	0.0388
TRTP	2	80.60461435	40.30230717	73.00	<.0001

**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70365861	<.0001
<b>THSm2.2</b>	3.08615503	<.0001
<b>mCC</b>	4.57324391	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.703659	2.460790 2.946528
<b>THSm2.2</b>	3.086155	2.903191 3.269119
<b>mCC</b>	4.573244	4.342269 4.804219

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.869585	-2.203227	-1.535943
<b>2 3</b>	-1.487089	-1.780645	-1.193533

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.1.3 Sensitivity Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC for the Primary Objective - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70365861	
<b>THSm2.2</b>	3.08615503	0.0140
<b>mCC</b>	4.57324391	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.703659	2.460790 2.946528
<b>THSm2.2</b>	3.086155	2.903191 3.269119
<b>mCC</b>	4.573244	4.342269 4.804219

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.382496	0.078777	0.686216
<b>3 1</b>	1.869585	1.535943	2.203227

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



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**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Class Level Information		
Class	Levels	Values
TRTP	3	SA THSm2.2 mCC
SEX	2	F M
UCPDGR1	2	10-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	139.4132500	27.8826500	94.24	<.0001
Error	151	44.6784116	0.2958835		
Corrected Total	156	184.0916616			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.757303	11.00362	0.543952	4.943391

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.8168261	15.8168261	53.46	<.0001
SEX	1	0.8933444	0.8933444	3.02	0.0843
UCPDGR1	1	0.4437164	0.4437164	1.50	0.2226
TRTP	2	122.2593631	61.1296816	206.60	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.0299875	9.0299875	30.52	<.0001
SEX	1	1.6485257	1.6485257	5.57	0.0195
UCPDGR1	1	0.0034972	0.0034972	0.01	0.9136
TRTP	2	122.2593631	61.1296816	206.60	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	<.0001
<b>THSm2.2</b>	4.42137632	<.0001
<b>mCC</b>	6.42492942	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.999249	-2.239230	-1.759267
<b>2 3</b>	-2.003553	-2.210825	-1.796282

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	
<b>THSm2.2</b>	4.42137632	0.9680
<b>mCC</b>	6.42492942	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.004304	-0.216087	0.207479
<b>3 1</b>	1.999249	1.759267	2.239230

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	106.2613052	21.2522610	48.61	<.0001
Error	142	62.0773902	0.4371647		
Corrected Total	147	168.3386954			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.631235	12.20015	0.661184	5.419475

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.81512104	24.81512104	56.76	<.0001
SEX	1	0.22236545	0.22236545	0.51	0.4769
UCPDGR1	1	0.00060517	0.00060517	0.00	0.9704
TRTP	2	81.22321355	40.61160677	92.90	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.84089901	14.84089901	33.95	<.0001
SEX	1	0.03909535	0.03909535	0.09	0.7653
UCPDGR1	1	0.34507639	0.34507639	0.79	0.3758
TRTP	2	81.22321355	40.61160677	92.90	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95073931	<.0001
<b>THSm2.2</b>	4.96404523	<.0001
<b>mCC</b>	6.62439658	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.950739	4.735055 5.166424
<b>THSm2.2</b>	4.964045	4.807279 5.120811
<b>mCC</b>	6.624397	6.417926 6.830867

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.673657	-1.971329	-1.375985
<b>2 3</b>	-1.660351	-1.918645	-1.402057

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95073931	
<b>THSm2.2</b>	4.96404523	0.9213
<b>mCC</b>	6.62439658	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.950739	4.735055 5.166424
<b>THSm2.2</b>	4.964045	4.807279 5.120811
<b>mCC</b>	6.624397	6.417926 6.830867

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.013306	-0.252472	0.279083
<b>3 1</b>	1.673657	1.375985	1.971329

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	34.87394520	6.97478904	68.60	<.0001
Error	151	15.35367575	0.10167997		
Corrected Total	156	50.22762095			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.694318	5.521601	0.318873	5.775009

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.91029010	5.91029010	58.13	<.0001
SEX	1	0.00039718	0.00039718	0.00	0.9502
UCPDGR1	1	0.16086863	0.16086863	1.58	0.2104
TRTP	2	28.80238929	14.40119465	141.63	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.22906923	7.22906923	71.10	<.0001
SEX	1	0.01127854	0.01127854	0.11	0.7396
UCPDGR1	1	0.10819730	0.10819730	1.06	0.3039
TRTP	2	28.80238929	14.40119465	141.63	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	<.0001
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.185964	-1.326314	-1.045614
<b>2 3</b>	-0.679911	-0.801174	-0.558648

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.506053	0.381895	0.630211
<b>3 1</b>	1.185964	1.045614	1.326314

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	20.55328129	4.11065626	31.16	<.0001
Error	142	18.73008481	0.13190201		
Corrected Total	147	39.28336610			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.523206	6.017255	0.363183	6.035695

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.14376302	2.14376302	16.25	<.0001
SEX	1	0.17394539	0.17394539	1.32	0.2527
UCPDGR1	1	0.04316869	0.04316869	0.33	0.5682
TRTP	2	18.19240418	9.09620209	68.96	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.33083115	2.33083115	17.67	<.0001
SEX	1	0.24136286	0.24136286	1.83	0.1783
UCPDGR1	1	0.06621766	0.06621766	0.50	0.4798
TRTP	2	18.19240418	9.09620209	68.96	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.62808421	<.0001
<b>THSm2.2</b>	5.95390424	<.0001
<b>mCC</b>	6.56852949	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.628084	5.509648 5.746520
<b>THSm2.2</b>	5.953904	5.867659 6.040150
<b>mCC</b>	6.568529	6.455613 6.681446

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.940445	-1.103381	-0.777509
<b>2 3</b>	-0.614625	-0.756244	-0.473006

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.62808421	
<b>THSm2.2</b>	5.95390424	<.0001
<b>mCC</b>	6.56852949	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.628084	5.509648	5.746520
<b>THSm2.2</b>	5.953904	5.867659	6.040150
<b>mCC</b>	6.568529	6.455613	6.681446

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.325820	0.179826	0.471815
<b>3 1</b>	0.940445	0.777509	1.103381

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	196.3255759	39.2651152	199.65	<.0001
Error	151	29.6975154	0.1966723		
Corrected Total	156	226.0230913			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.868608	8.314890	0.443477	5.333534

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.7450455	39.7450455	202.09	<.0001
SEX	1	0.0389029	0.0389029	0.20	0.6571
UCPDGR1	1	0.2997712	0.2997712	1.52	0.2189
TRTP	2	156.2418563	78.1209282	397.21	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.5763021	32.5763021	165.64	<.0001
SEX	1	0.3160312	0.3160312	1.61	0.2069
UCPDGR1	1	0.0016463	0.0016463	0.01	0.9272
TRTP	2	156.2418563	78.1209282	397.21	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.65230095	<.0001
<b>THSm2.2</b>	4.78066546	<.0001
<b>mCC</b>	6.99107463	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.652301	4.511680 4.792922
<b>THSm2.2</b>	4.780665	4.679686 4.881645
<b>mCC</b>	6.991075	6.854854 7.127295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.338774	-2.533871	-2.143676
<b>2 3</b>	-2.210409	-2.379073	-2.041746

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



### Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

#### Least Squares Means

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.65230095	
THSm2.2	4.78066546	0.1438
mCC	6.99107463	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.652301	4.511680 4.792922
THSm2.2	4.780665	4.679686 4.881645
mCC	6.991075	6.854854 7.127295

#### Least Squares Means for Effect

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.128365	-0.044246	0.300975
3 1	2.338774	2.143676	2.533871

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	166.9254210	33.3850842	76.01	<.0001
Error	142	62.3715992	0.4392366		
Corrected Total	147	229.2970202			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.727988	11.93625	0.662749	5.552410

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	41.0740901	41.0740901	93.51	<.0001
SEX	1	1.5135211	1.5135211	3.45	0.0655
UCPDGR1	1	0.1311026	0.1311026	0.30	0.5857
TRTP	2	124.2067072	62.1033536	141.39	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.8564383	28.8564383	65.70	<.0001
SEX	1	2.5117380	2.5117380	5.72	0.0181
UCPDGR1	1	0.7852212	0.7852212	1.79	0.1833
TRTP	2	124.2067072	62.1033536	141.39	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.01519835	<.0001
<b>THSm2.2</b>	5.00295644	<.0001
<b>mCC</b>	7.05849660	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.015198	4.799102 5.231295
<b>THSm2.2</b>	5.002956	4.845826 5.160087
<b>mCC</b>	7.058497	6.852185 7.264808

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.043298	-2.340738	-1.745858
<b>2 3</b>	-2.055540	-2.313726	-1.797354

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.01519835	
<b>THSm2.2</b>	5.00295644	0.9277
<b>mCC</b>	7.05849660	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.015198	4.799102 5.231295
<b>THSm2.2</b>	5.002956	4.845826 5.160087
<b>mCC</b>	7.058497	6.852185 7.264808

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.012242	-0.278613	0.254130
<b>3 1</b>	2.043298	1.745858	2.340738

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	21.28912900	4.25782580	145.44	<.0001
Error	151	4.42056169	0.02927524		
Corrected Total	156	25.70969069			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.828059	15.19680	0.171100	1.125896

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.29937169	1.29937169	44.38	<.0001
SEX	1	0.45696868	0.45696868	15.61	0.0001
UCPDGR1	1	0.01526889	0.01526889	0.52	0.4713
TRTP	2	19.51751974	9.75875987	333.35	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.96922081	0.96922081	33.11	<.0001
SEX	1	0.31246296	0.31246296	10.67	0.0013
UCPDGR1	1	0.00171734	0.00171734	0.06	0.8090
TRTP	2	19.51751974	9.75875987	333.35	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.91068301	<.0001
<b>THSm2.2</b>	0.90375864	<.0001
<b>mCC</b>	1.70350654	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.910683	0.856429 0.964937
<b>THSm2.2</b>	0.903759	0.864801 0.942716
<b>mCC</b>	1.703507	1.650993 1.756020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.792824	-0.868050	-0.717597
<b>2 3</b>	-0.799748	-0.864818	-0.734678

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.91068301	
<b>THSm2.2</b>	0.90375864	0.8375
<b>mCC</b>	1.70350654	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	0.910683	0.856429	0.964937
<b>THSm2.2</b>	0.903759	0.864801	0.942716
<b>mCC</b>	1.703507	1.650993	1.756020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.006924	-0.073518	0.059669
<b>3 1</b>	0.792824	0.717597	0.868050

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.00867253	2.60173451	73.67	<.0001
Error	142	5.01505583	0.03531729		
Corrected Total	147	18.02372836			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.721753	14.72745	0.187929	1.276045

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.47664307	0.47664307	13.50	0.0003
SEX	1	0.02783406	0.02783406	0.79	0.3762
UCPDGR1	1	0.02171324	0.02171324	0.61	0.4343
TRTP	2	12.48248217	6.24124108	176.72	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.30343791	0.30343791	8.59	0.0039
SEX	1	0.00583647	0.00583647	0.17	0.6850
UCPDGR1	1	0.08315170	0.08315170	2.35	0.1272
TRTP	2	12.48248217	6.24124108	176.72	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.11628648	<.0001
<b>THSm2.2</b>	1.08683824	<.0001
<b>mCC</b>	1.74613978	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.116286	1.054994 1.177579
<b>THSm2.2</b>	1.086838	1.042277 1.131399
<b>mCC</b>	1.746140	1.687725 1.804555

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.629853	-0.714163	-0.545544
<b>2 3</b>	-0.659302	-0.732446	-0.586157

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.11628648	
<b>THSm2.2</b>	1.08683824	0.4423
<b>mCC</b>	1.74613978	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.116286	1.054994 1.177579
<b>THSm2.2</b>	1.086838	1.042277 1.131399
<b>mCC</b>	1.746140	1.687725 1.804555

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.029448	-0.105010	0.046113
<b>3 1</b>	0.629853	0.545544	0.714163

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	98.4452510	19.6890502	299.08	<.0001
Error	151	9.9405694	0.0658316		
Corrected Total	156	108.3858204			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.908285	6.765591	0.256577	3.792376

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	72.62368170	72.62368170	1103.17	<.0001
SEX	1	0.63188383	0.63188383	9.60	0.0023
UCPDGR1	1	0.11447588	0.11447588	1.74	0.1893
TRTP	2	25.07520963	12.53760481	190.45	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	60.13496228	60.13496228	913.47	<.0001
SEX	1	0.43274423	0.43274423	6.57	0.0113
UCPDGR1	1	0.27793675	0.27793675	4.22	0.0416
TRTP	2	25.07520963	12.53760481	190.45	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43037745	<.0001
<b>THSm2.2</b>	3.60948075	<.0001
<b>mCC</b>	4.43762245	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.430377	3.348953 3.511802
<b>THSm2.2</b>	3.609481	3.551055 3.667906
<b>mCC</b>	4.437622	4.358887 4.516358

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.007245	-1.120135	-0.894355
<b>2 3</b>	-0.828142	-0.925685	-0.730598

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43037745	
<b>THSm2.2</b>	3.60948075	0.0005
<b>mCC</b>	4.43762245	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.430377	3.348953 3.511802
<b>THSm2.2</b>	3.609481	3.551055 3.667906
<b>mCC</b>	4.437622	4.358887 4.516358

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.179103	0.079148	0.279059
<b>3 1</b>	1.007245	0.894355	1.120135

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	121.2968047	24.2593609	43.49	<.0001
Error	142	79.2016425	0.5577580		
Corrected Total	147	200.4984472			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.604976	21.91261	0.746832	3.408229

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.07257303	39.07257303	70.05	<.0001
SEX	1	0.33115853	0.33115853	0.59	0.4423
UCPDGR1	1	1.96890197	1.96890197	3.53	0.0623
TRTP	2	79.92417117	39.96208558	71.65	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.44606466	27.44606466	49.21	<.0001
SEX	1	0.15282231	0.15282231	0.27	0.6015
UCPDGR1	1	2.89870021	2.89870021	5.20	0.0241
TRTP	2	79.92417117	39.96208558	71.65	<.0001

**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70130848	<.0001
<b>THSm2.2</b>	3.11244960	<.0001
<b>mCC</b>	4.57110844	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.701308	2.457312 2.945305
<b>THSm2.2</b>	3.112450	2.935169 3.289731
<b>mCC</b>	4.571108	4.339046 4.803171

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.869800	-2.205027	-1.534573
<b>2 3</b>	-1.458659	-1.749430	-1.167888

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.2 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA -PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70130848	
<b>THSm2.2</b>	3.11244960	0.0078
<b>mCC</b>	4.57110844	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.701308	2.457312 2.945305
<b>THSm2.2</b>	3.112450	2.935169 3.289731
<b>mCC</b>	4.571108	4.339046 4.803171

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.411141	0.110009	0.712273
<b>3 1</b>	1.869800	1.534573	2.205027

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



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**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Class Level Information		
Class	Levels	Values
TRTP	3	SA THSm2.2 mCC
SEX	2	F M
UCPDGR1	2	10-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	136.9370672	27.3874134	86.50	<.0001
Error	154	48.7607805	0.3166284		
Corrected Total	159	185.6978477			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.737419	11.35469	0.562697	4.955639

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.6408686	15.6408686	49.40	<.0001
SEX	1	0.8822616	0.8822616	2.79	0.0971
UCPDGR1	1	0.6401909	0.6401909	2.02	0.1571
TRTP	2	119.7737460	59.8868730	189.14	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.8662104	9.8662104	31.16	<.0001
SEX	1	1.4955650	1.4955650	4.72	0.0313
UCPDGR1	1	0.0701862	0.0701862	0.22	0.6384
TRTP	2	119.7737460	59.8868730	189.14	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.45349917	<.0001
<b>THSm2.2</b>	4.45027603	<.0001
<b>mCC</b>	6.42442153	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.453499	4.277385 4.629614
<b>THSm2.2</b>	4.450276	4.323633 4.576919
<b>mCC</b>	6.424422	6.251294 6.597549

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.970922	-2.217334	-1.724511
<b>2 3</b>	-1.974145	-2.187406	-1.760885

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.45349917	
<b>THSm2.2</b>	4.45027603	0.9766
<b>mCC</b>	6.42442153	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.453499	4.277385 4.629614
<b>THSm2.2</b>	4.450276	4.323633 4.576919
<b>mCC</b>	6.424422	6.251294 6.597549

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.003223	-0.219521	0.213075
<b>3 1</b>	1.970922	1.724511	2.217334

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	108.4541278	21.6908256	50.16	<.0001
Error	154	66.6003674	0.4324699		
Corrected Total	159	175.0544952			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.619545	12.17623	0.657624	5.400887

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	25.72691868	25.72691868	59.49	<.0001
SEX	1	0.07152490	0.07152490	0.17	0.6848
UCPDGR1	1	0.00513097	0.00513097	0.01	0.9134
TRTP	2	82.65055324	41.32527662	95.56	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	17.59735438	17.59735438	40.69	<.0001
SEX	1	0.00050880	0.00050880	0.00	0.9727
UCPDGR1	1	0.13843158	0.13843158	0.32	0.5724
TRTP	2	82.65055324	41.32527662	95.56	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95958769	<.0001
<b>THSm2.2</b>	4.97909177	<.0001
<b>mCC</b>	6.61143030	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.959588	4.753763 5.165413
<b>THSm2.2</b>	4.979092	4.831084 5.127100
<b>mCC</b>	6.611430	6.409096 6.813764

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.651843	-1.939824	-1.363861
<b>2 3</b>	-1.632339	-1.881576	-1.383101

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95958769	
<b>THSm2.2</b>	4.97909177	0.8791
<b>mCC</b>	6.61143030	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.959588	4.753763 5.165413
<b>THSm2.2</b>	4.979092	4.831084 5.127100
<b>mCC</b>	6.611430	6.409096 6.813764

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.019504	-0.233284	0.272292
<b>3 1</b>	1.651843	1.363861	1.939824

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	34.67455894	6.93491179	67.94	<.0001
Error	154	15.71961094	0.10207540		
Corrected Total	159	50.39416987			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.688067	5.530136	0.319492	5.777297

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.84274127	5.84274127	57.24	<.0001
SEX	1	0.00154616	0.00154616	0.02	0.9022
UCPDGR1	1	0.13670744	0.13670744	1.34	0.2490
TRTP	2	28.69356406	14.34678203	140.55	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.32169209	7.32169209	71.73	<.0001
SEX	1	0.00615820	0.00615820	0.06	0.8063
UCPDGR1	1	0.12217731	0.12217731	1.20	0.2756
TRTP	2	28.69356406	14.34678203	140.55	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21930268	<.0001
<b>THSm2.2</b>	5.72820686	<.0001
<b>mCC</b>	6.39797801	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.219303	5.119139 5.319466
<b>THSm2.2</b>	5.728207	5.656298 5.800116
<b>mCC</b>	6.397978	6.299957 6.495999

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.178675	-1.318441	-1.038910
<b>2 3</b>	-0.669771	-0.790657	-0.548885

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21930268	
<b>THSm2.2</b>	5.72820686	<.0001
<b>mCC</b>	6.39797801	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.219303	5.119139 5.319466
<b>THSm2.2</b>	5.728207	5.656298 5.800116
<b>mCC</b>	6.397978	6.299957 6.495999

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.508904	0.385995	0.631814
<b>3 1</b>	1.178675	1.038910	1.318441

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	22.74164282	4.54832856	35.28	<.0001
Error	154	19.85113401	0.12890347		
Corrected Total	159	42.59277684			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.533932	5.962817	0.359031	6.021169

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.19369753	2.19369753	17.02	<.0001
SEX	1	0.21017026	0.21017026	1.63	0.2036
UCPDGR1	1	0.02399577	0.02399577	0.19	0.6667
TRTP	2	20.31377927	10.15688964	78.79	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.45261997	2.45261997	19.03	<.0001
SEX	1	0.35056347	0.35056347	2.72	0.1012
UCPDGR1	1	0.03419689	0.03419689	0.27	0.6072
TRTP	2	20.31377927	10.15688964	78.79	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.60687509	<.0001
<b>THSm2.2</b>	5.94874511	<.0001
<b>mCC</b>	6.58039975	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.606875	5.494316 5.719434
<b>THSm2.2</b>	5.948745	5.867937 6.029554
<b>mCC</b>	6.580400	6.470248 6.690552

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.973525	-1.130587	-0.816462
<b>2 3</b>	-0.631655	-0.767501	-0.495809

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.60687509	
<b>THSm2.2</b>	5.94874511	<.0001
<b>mCC</b>	6.58039975	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.606875	5.494316 5.719434
<b>THSm2.2</b>	5.948745	5.867937 6.029554
<b>mCC</b>	6.580400	6.470248 6.690552

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.341870	0.203750	0.479990
<b>3 1</b>	0.973525	0.816462	1.130587

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	194.0571844	38.8114369	169.95	<.0001
Error	154	35.1685662	0.2283673		
Corrected Total	159	229.2257506			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.846577	8.936528	0.477878	5.347468

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.8058779	39.8058779	174.31	<.0001
SEX	1	0.0625802	0.0625802	0.27	0.6014
UCPDGR1	1	0.5651386	0.5651386	2.47	0.1177
TRTP	2	153.6235877	76.8117938	336.35	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	34.8117875	34.8117875	152.44	<.0001
SEX	1	0.3061835	0.3061835	1.34	0.2487
UCPDGR1	1	0.1114652	0.1114652	0.49	0.4858
TRTP	2	153.6235877	76.8117938	336.35	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.69297450	<.0001
<b>THSm2.2</b>	4.80688546	<.0001
<b>mCC</b>	6.99507889	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.692974	4.543452 4.842497
<b>THSm2.2</b>	4.806885	4.699321 4.914450
<b>mCC</b>	6.995079	6.848372 7.141785

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.302104	-2.510861	-2.093348
<b>2 3</b>	-2.188193	-2.369022	-2.007365

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.69297450	
<b>THSm2.2</b>	4.80688546	0.2223
<b>mCC</b>	6.99507889	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.692974	4.543452 4.842497
<b>THSm2.2</b>	4.806885	4.699321 4.914450
<b>mCC</b>	6.995079	6.848372 7.141785

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.113911	-0.069734	0.297555
<b>3 1</b>	2.302104	2.093348	2.510861

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	165.4063853	33.0812771	70.44	<.0001
Error	154	72.3231073	0.4696306		
Corrected Total	159	237.7294926			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.695776	12.34364	0.685296	5.551814

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	40.6199055	40.6199055	86.49	<.0001
SEX	1	1.4998160	1.4998160	3.19	0.0759
UCPDGR1	1	0.0063172	0.0063172	0.01	0.9078
TRTP	2	123.2803466	61.6401733	131.25	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.5122920	32.5122920	69.23	<.0001
SEX	1	2.3714298	2.3714298	5.05	0.0261
UCPDGR1	1	0.0884208	0.0884208	0.19	0.6650
TRTP	2	123.2803466	61.6401733	131.25	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.01988511	<.0001
<b>THSm2.2</b>	5.06183185	<.0001
<b>mCC</b>	7.04425414	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.019885	4.805464 5.234307
<b>THSm2.2</b>	5.061832	4.907580 5.216084
<b>mCC</b>	7.044254	6.833871 7.254637

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.024369	-2.323734	-1.725004
<b>2 3</b>	-1.982422	-2.241737	-1.723107

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.01988511	
<b>THSm2.2</b>	5.06183185	0.7535
<b>mCC</b>	7.04425414	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.019885	4.805464 5.234307
<b>THSm2.2</b>	5.061832	4.907580 5.216084
<b>mCC</b>	7.044254	6.833871 7.254637

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.041947	-0.221407	0.305300
<b>3 1</b>	2.024369	1.725004	2.323734

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	21.44443120	4.28888624	147.98	<.0001
Error	154	4.46336637	0.02898290		
Corrected Total	159	25.90779757			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.827721	15.17043	0.170244	1.122207

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.33073653	1.33073653	45.91	<.0001
SEX	1	0.48613211	0.48613211	16.77	<.0001
UCPDGR1	1	0.01092781	0.01092781	0.38	0.5401
TRTP	2	19.61663475	9.80831738	338.42	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.96380138	0.96380138	33.25	<.0001
SEX	1	0.34886681	0.34886681	12.04	0.0007
UCPDGR1	1	0.00231808	0.00231808	0.08	0.7777
TRTP	2	19.61663475	9.80831738	338.42	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.90668646	<.0001
<b>THSm2.2</b>	0.90592760	<.0001
<b>mCC</b>	1.70280644	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	0.906686	0.853420	0.959953
<b>THSm2.2</b>	0.905928	0.867609	0.944246
<b>mCC</b>	1.702806	1.650565	1.755048

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.796120	-0.870480	-0.721760
<b>2 3</b>	-0.796879	-0.861308	-0.732450

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	0.90668646	
THSm2.2	0.90592760	0.9817
mCC	1.70280644	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	0.906686	0.853420	0.959953
THSm2.2	0.905928	0.867609	0.944246
mCC	1.702806	1.650565	1.755048

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.000759	-0.066188	0.064670
3 1	0.796120	0.721760	0.870480

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.67855517	2.73571103	75.62	<.0001
Error	154	5.57120909	0.03617668		
Corrected Total	159	19.24976426			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.710583	15.04751	0.190202	1.264007

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.44374166	0.44374166	12.27	0.0006
SEX	1	0.05255229	0.05255229	1.45	0.2300
UCPDGR1	1	0.01589336	0.01589336	0.44	0.5084
TRTP	2	13.16636785	6.58318393	181.97	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.24803106	0.24803106	6.86	0.0097
SEX	1	0.01764580	0.01764580	0.49	0.4860
UCPDGR1	1	0.06287633	0.06287633	1.74	0.1893
TRTP	2	13.16636785	6.58318393	181.97	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.08973881	<.0001
<b>THSm2.2</b>	1.09335530	<.0001
<b>mCC</b>	1.74475959	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.089739	1.030228 1.149250
<b>THSm2.2</b>	1.093355	1.050544 1.136166
<b>mCC</b>	1.744760	1.686394 1.803125

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.655021	-0.738098	-0.571944
<b>2 3</b>	-0.651404	-0.723386	-0.579422

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.





### Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

#### Least Squares Means

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	1.08973881	
THSm2.2	1.09335530	0.9223
mCC	1.74475959	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	1.089739	1.030228 1.149250
THSm2.2	1.093355	1.050544 1.136166
mCC	1.744760	1.686394 1.803125

#### Least Squares Means for Effect

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.003616	-0.069483	0.076716
3 1	0.655021	0.571944	0.738098

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	98.0155386	19.6031077	281.86	<.0001
Error	154	10.7107446	0.0695503		
Corrected Total	159	108.7262832			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.901489	6.946221	0.263724	3.796653

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	72.56380657	72.56380657	1043.33	<.0001
SEX	1	0.72526232	0.72526232	10.43	0.0015
UCPDGR1	1	0.09694477	0.09694477	1.39	0.2396
TRTP	2	24.62952492	12.31476246	177.06	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	61.19037679	61.19037679	879.80	<.0001
SEX	1	0.49203887	0.49203887	7.07	0.0086
UCPDGR1	1	0.21756634	0.21756634	3.13	0.0789
TRTP	2	24.62952492	12.31476246	177.06	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43973920	<.0001
<b>THSm2.2</b>	3.62172417	<.0001
<b>mCC</b>	4.43661217	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.439739	3.357208 3.522271
<b>THSm2.2</b>	3.621724	3.562367 3.681082
<b>mCC</b>	4.436612	4.355701 4.517523

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.996873	-1.112095	-0.881651
<b>2 3</b>	-0.814888	-0.914657	-0.715119

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43973920	
<b>THSm2.2</b>	3.62172417	0.0005
<b>mCC</b>	4.43661217	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.439739	3.357208 3.522271
<b>THSm2.2</b>	3.621724	3.562367 3.681082
<b>mCC</b>	4.436612	4.355701 4.517523

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.181985	0.080611	0.283359
<b>3 1</b>	0.996873	0.881651	1.112095

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	116.6208493	23.3241699	40.77	<.0001
Error	154	88.0959368	0.5720515		
Corrected Total	159	204.7167861			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.569669	22.19984	0.756341	3.406966

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	37.10419848	37.10419848	64.86	<.0001
SEX	1	0.83332544	0.83332544	1.46	0.2293
UCPDGR1	1	1.32951707	1.32951707	2.32	0.1294
TRTP	2	77.35380831	38.67690416	67.61	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.75381704	26.75381704	46.77	<.0001
SEX	1	0.38579806	0.38579806	0.67	0.4128
UCPDGR1	1	2.02714303	2.02714303	3.54	0.0617
TRTP	2	77.35380831	38.67690416	67.61	<.0001

**Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.73028567	<.0001
<b>THSm2.2</b>	3.14186011	<.0001
<b>mCC</b>	4.53779042	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.730286	2.493591 2.966981
<b>THSm2.2</b>	3.141860	2.971627 3.312093
<b>mCC</b>	4.537790	4.305743 4.769838

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.807505	-2.137954	-1.477055
<b>2 3</b>	-1.395930	-1.682062	-1.109799

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.





### Listing 15.4.3.3 Analysis of COHb, MHBMA, 3-HPMA, S-PMA, and Total NNAL on Day 5 and Day 90 Visit for THS 2.2 Menthol versus mCC and SA - FAS

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

#### Least Squares Means

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	2.73028567	
THSm2.2	3.14186011	0.0058
mCC	4.53779042	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	2.730286	2.493591	2.966981
THSm2.2	3.141860	2.971627	3.312093
mCC	4.537790	4.305743	4.769838

#### Least Squares Means for Effect

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.411574	0.120840	0.702309
3 1	1.807505	1.477055	2.137954

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



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**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Class Level Information		
Class	Levels	Values
TRTP	3	SA THSm2.2 mCC
SEX	2	F M
UCPDGR1	2	10-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	139.4132500	27.8826500	94.24	<.0001
Error	151	44.6784116	0.2958835		
Corrected Total	156	184.0916616			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.757303	11.00362	0.543952	4.943391

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.8168261	15.8168261	53.46	<.0001
SEX	1	0.8933444	0.8933444	3.02	0.0843
UCPDGR1	1	0.4437164	0.4437164	1.50	0.2226
TRTP	2	122.2593631	61.1296816	206.60	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.0299875	9.0299875	30.52	<.0001
SEX	1	1.6485257	1.6485257	5.57	0.0195
UCPDGR1	1	0.0034972	0.0034972	0.01	0.9136
TRTP	2	122.2593631	61.1296816	206.60	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	<.0001
<b>THSm2.2</b>	4.42137632	<.0001
<b>mCC</b>	6.42492942	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.999249	-2.239230	-1.759267
<b>2 3</b>	-2.003553	-2.210825	-1.796282

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	
<b>THSm2.2</b>	4.42137632	0.9680
<b>mCC</b>	6.42492942	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.004304	-0.216087	0.207479
<b>3 1</b>	1.999249	1.759267	2.239230

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Class Level Information		
Class	Levels	Values
TRTP	3	SA THSm2.2 mCC
SEX	2	F M
UCPDGR1	2	10-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	106.2613052	21.2522610	48.61	<.0001
Error	142	62.0773902	0.4371647		
Corrected Total	147	168.3386954			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.631235	12.20015	0.661184	5.419475

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.81512104	24.81512104	56.76	<.0001
SEX	1	0.22236545	0.22236545	0.51	0.4769
UCPDGR1	1	0.00060517	0.00060517	0.00	0.9704
TRTP	2	81.22321355	40.61160677	92.90	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.84089901	14.84089901	33.95	<.0001
SEX	1	0.03909535	0.03909535	0.09	0.7653
UCPDGR1	1	0.34507639	0.34507639	0.79	0.3758
TRTP	2	81.22321355	40.61160677	92.90	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95073931	<.0001
<b>THSm2.2</b>	4.96404523	<.0001
<b>mCC</b>	6.62439658	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.950739	4.735055 5.166424
<b>THSm2.2</b>	4.964045	4.807279 5.120811
<b>mCC</b>	6.624397	6.417926 6.830867

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.673657	-1.971329	-1.375985
<b>2 3</b>	-1.660351	-1.918645	-1.402057

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95073931	
<b>THSm2.2</b>	4.96404523	0.9213
<b>mCC</b>	6.62439658	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.950739	4.735055 5.166424
<b>THSm2.2</b>	4.964045	4.807279 5.120811
<b>mCC</b>	6.624397	6.417926 6.830867

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.013306	-0.252472	0.279083
<b>3 1</b>	1.673657	1.375985	1.971329

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Class Level Information		
Class	Levels	Values
TRTP	3	SA THSm2.2 mCC
SEX	2	F M
UCPDGR1	2	10-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	34.87394520	6.97478904	68.60	<.0001
Error	151	15.35367575	0.10167997		
Corrected Total	156	50.22762095			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.694318	5.521601	0.318873	5.775009

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.91029010	5.91029010	58.13	<.0001
SEX	1	0.00039718	0.00039718	0.00	0.9502
UCPDGR1	1	0.16086863	0.16086863	1.58	0.2104
TRTP	2	28.80238929	14.40119465	141.63	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.22906923	7.22906923	71.10	<.0001
SEX	1	0.01127854	0.01127854	0.11	0.7396
UCPDGR1	1	0.10819730	0.10819730	1.06	0.3039
TRTP	2	28.80238929	14.40119465	141.63	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	<.0001
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.185964	-1.326314	-1.045614
<b>2 3</b>	-0.679911	-0.801174	-0.558648

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.506053	0.381895	0.630211
<b>3 1</b>	1.185964	1.045614	1.326314

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	20.55328129	4.11065626	31.16	<.0001
Error	142	18.73008481	0.13190201		
Corrected Total	147	39.28336610			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.523206	6.017255	0.363183	6.035695

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.14376302	2.14376302	16.25	<.0001
SEX	1	0.17394539	0.17394539	1.32	0.2527
UCPDGR1	1	0.04316869	0.04316869	0.33	0.5682
TRTP	2	18.19240418	9.09620209	68.96	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.33083115	2.33083115	17.67	<.0001
SEX	1	0.24136286	0.24136286	1.83	0.1783
UCPDGR1	1	0.06621766	0.06621766	0.50	0.4798
TRTP	2	18.19240418	9.09620209	68.96	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.62808421	<.0001
<b>THSm2.2</b>	5.95390424	<.0001
<b>mCC</b>	6.56852949	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.628084	5.509648 5.746520
<b>THSm2.2</b>	5.953904	5.867659 6.040150
<b>mCC</b>	6.568529	6.455613 6.681446

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.940445	-1.103381	-0.777509
<b>2 3</b>	-0.614625	-0.756244	-0.473006

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.62808421	
<b>THSm2.2</b>	5.95390424	<.0001
<b>mCC</b>	6.56852949	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.628084	5.509648 5.746520
<b>THSm2.2</b>	5.953904	5.867659 6.040150
<b>mCC</b>	6.568529	6.455613 6.681446

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.325820	0.179826	0.471815
<b>3 1</b>	0.940445	0.777509	1.103381

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	196.3255759	39.2651152	199.65	<.0001
Error	151	29.6975154	0.1966723		
Corrected Total	156	226.0230913			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.868608	8.314890	0.443477	5.333534

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.7450455	39.7450455	202.09	<.0001
SEX	1	0.0389029	0.0389029	0.20	0.6571
UCPDGR1	1	0.2997712	0.2997712	1.52	0.2189
TRTP	2	156.2418563	78.1209282	397.21	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.5763021	32.5763021	165.64	<.0001
SEX	1	0.3160312	0.3160312	1.61	0.2069
UCPDGR1	1	0.0016463	0.0016463	0.01	0.9272
TRTP	2	156.2418563	78.1209282	397.21	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.65230095	<.0001
<b>THSm2.2</b>	4.78066546	<.0001
<b>mCC</b>	6.99107463	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.652301	4.511680 4.792922
<b>THSm2.2</b>	4.780665	4.679686 4.881645
<b>mCC</b>	6.991075	6.854854 7.127295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.338774	-2.533871	-2.143676
<b>2 3</b>	-2.210409	-2.379073	-2.041746

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.65230095	
<b>THSm2.2</b>	4.78066546	0.1438
<b>mCC</b>	6.99107463	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.652301	4.511680 4.792922
<b>THSm2.2</b>	4.780665	4.679686 4.881645
<b>mCC</b>	6.991075	6.854854 7.127295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.128365	-0.044246	0.300975
<b>3 1</b>	2.338774	2.143676	2.533871

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	166.9254210	33.3850842	76.01	<.0001
Error	142	62.3715992	0.4392366		
Corrected Total	147	229.2970202			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.727988	11.93625	0.662749	5.552410

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	41.0740901	41.0740901	93.51	<.0001
SEX	1	1.5135211	1.5135211	3.45	0.0655
UCPDGR1	1	0.1311026	0.1311026	0.30	0.5857
TRTP	2	124.2067072	62.1033536	141.39	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.8564383	28.8564383	65.70	<.0001
SEX	1	2.5117380	2.5117380	5.72	0.0181
UCPDGR1	1	0.7852212	0.7852212	1.79	0.1833
TRTP	2	124.2067072	62.1033536	141.39	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.01519835	<.0001
<b>THSm2.2</b>	5.00295644	<.0001
<b>mCC</b>	7.05849660	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.015198	4.799102 5.231295
<b>THSm2.2</b>	5.002956	4.845826 5.160087
<b>mCC</b>	7.058497	6.852185 7.264808

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.043298	-2.340738	-1.745858
<b>2 3</b>	-2.055540	-2.313726	-1.797354

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.01519835	
<b>THSm2.2</b>	5.00295644	0.9277
<b>mCC</b>	7.05849660	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.015198	4.799102 5.231295
<b>THSm2.2</b>	5.002956	4.845826 5.160087
<b>mCC</b>	7.058497	6.852185 7.264808

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.012242	-0.278613	0.254130
<b>3 1</b>	2.043298	1.745858	2.340738

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	21.28912900	4.25782580	145.44	<.0001
Error	151	4.42056169	0.02927524		
Corrected Total	156	25.70969069			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.828059	15.19680	0.171100	1.125896

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.29937169	1.29937169	44.38	<.0001
SEX	1	0.45696868	0.45696868	15.61	0.0001
UCPDGR1	1	0.01526889	0.01526889	0.52	0.4713
TRTP	2	19.51751974	9.75875987	333.35	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.96922081	0.96922081	33.11	<.0001
SEX	1	0.31246296	0.31246296	10.67	0.0013
UCPDGR1	1	0.00171734	0.00171734	0.06	0.8090
TRTP	2	19.51751974	9.75875987	333.35	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.91068301	<.0001
<b>THSm2.2</b>	0.90375864	<.0001
<b>mCC</b>	1.70350654	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.910683	0.856429 0.964937
<b>THSm2.2</b>	0.903759	0.864801 0.942716
<b>mCC</b>	1.703507	1.650993 1.756020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.792824	-0.868050	-0.717597
<b>2 3</b>	-0.799748	-0.864818	-0.734678

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	0.91068301	
THSm2.2	0.90375864	0.8375
mCC	1.70350654	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	0.910683	0.856429 0.964937
THSm2.2	0.903759	0.864801 0.942716
mCC	1.703507	1.650993 1.756020

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.006924	-0.073518	0.059669
3 1	0.792824	0.717597	0.868050

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.00867253	2.60173451	73.67	<.0001
Error	142	5.01505583	0.03531729		
Corrected Total	147	18.02372836			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.721753	14.72745	0.187929	1.276045

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.47664307	0.47664307	13.50	0.0003
SEX	1	0.02783406	0.02783406	0.79	0.3762
UCPDGR1	1	0.02171324	0.02171324	0.61	0.4343
TRTP	2	12.48248217	6.24124108	176.72	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.30343791	0.30343791	8.59	0.0039
SEX	1	0.00583647	0.00583647	0.17	0.6850
UCPDGR1	1	0.08315170	0.08315170	2.35	0.1272
TRTP	2	12.48248217	6.24124108	176.72	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.11628648	<.0001
<b>THSm2.2</b>	1.08683824	<.0001
<b>mCC</b>	1.74613978	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.116286	1.054994 1.177579
<b>THSm2.2</b>	1.086838	1.042277 1.131399
<b>mCC</b>	1.746140	1.687725 1.804555

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.629853	-0.714163	-0.545544
<b>2 3</b>	-0.659302	-0.732446	-0.586157

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	1.11628648	
THSm2.2	1.08683824	0.4423
mCC	1.74613978	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	1.116286	1.054994 1.177579
THSm2.2	1.086838	1.042277 1.131399
mCC	1.746140	1.687725 1.804555

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.029448	-0.105010	0.046113
3 1	0.629853	0.545544	0.714163

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	98.4452510	19.6890502	299.08	<.0001
Error	151	9.9405694	0.0658316		
Corrected Total	156	108.3858204			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.908285	6.765591	0.256577	3.792376

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	72.62368170	72.62368170	1103.17	<.0001
SEX	1	0.63188383	0.63188383	9.60	0.0023
UCPDGR1	1	0.11447588	0.11447588	1.74	0.1893
TRTP	2	25.07520963	12.53760481	190.45	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	60.13496228	60.13496228	913.47	<.0001
SEX	1	0.43274423	0.43274423	6.57	0.0113
UCPDGR1	1	0.27793675	0.27793675	4.22	0.0416
TRTP	2	25.07520963	12.53760481	190.45	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43037745	<.0001
<b>THSm2.2</b>	3.60948075	<.0001
<b>mCC</b>	4.43762245	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.430377	3.348953 3.511802
<b>THSm2.2</b>	3.609481	3.551055 3.667906
<b>mCC</b>	4.437622	4.358887 4.516358

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.007245	-1.120135	-0.894355
<b>2 3</b>	-0.828142	-0.925685	-0.730598

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43037745	
<b>THSm2.2</b>	3.60948075	0.0005
<b>mCC</b>	4.43762245	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.430377	3.348953 3.511802
<b>THSm2.2</b>	3.609481	3.551055 3.667906
<b>mCC</b>	4.437622	4.358887 4.516358

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.179103	0.079148	0.279059
<b>3 1</b>	1.007245	0.894355	1.120135

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	121.2968047	24.2593609	43.49	<.0001
Error	142	79.2016425	0.5577580		
Corrected Total	147	200.4984472			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.604976	21.91261	0.746832	3.408229

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.07257303	39.07257303	70.05	<.0001
SEX	1	0.33115853	0.33115853	0.59	0.4423
UCPDGR1	1	1.96890197	1.96890197	3.53	0.0623
TRTP	2	79.92417117	39.96208558	71.65	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.44606466	27.44606466	49.21	<.0001
SEX	1	0.15282231	0.15282231	0.27	0.6015
UCPDGR1	1	2.89870021	2.89870021	5.20	0.0241
TRTP	2	79.92417117	39.96208558	71.65	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70130848	<.0001
<b>THSm2.2</b>	3.11244960	<.0001
<b>mCC</b>	4.57110844	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.701308	2.457312 2.945305
<b>THSm2.2</b>	3.112450	2.935169 3.289731
<b>mCC</b>	4.571108	4.339046 4.803171

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.869800	-2.205027	-1.534573
<b>2 3</b>	-1.458659	-1.749430	-1.167888

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70130848	
<b>THSm2.2</b>	3.11244960	0.0078
<b>mCC</b>	4.57110844	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.701308	2.457312 2.945305
<b>THSm2.2</b>	3.112450	2.935169 3.289731
<b>mCC</b>	4.571108	4.339046 4.803171

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.411141	0.110009	0.712273
<b>3 1</b>	1.869800	1.534573	2.205027

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5479.836020	1095.967204	62.67	<.0001
Error	151	2640.648056	17.487735		
Corrected Total	156	8120.484076			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.674816	69.03764	4.181834	6.057325

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	368.358057	368.358057	21.06	<.0001
SEX	1	68.256820	68.256820	3.90	0.0500
UCPDGR1	1	3.220293	3.220293	0.18	0.6684
TRTP	2	5040.000851	2520.000425	144.10	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	379.226417	379.226417	21.69	<.0001
SEX	1	25.891711	25.891711	1.48	0.2256
UCPDGR1	1	10.176240	10.176240	0.58	0.4468
TRTP	2	5040.000851	2520.000425	144.10	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.1399726	<.0001
THSm2.2	2.2909408	<.0001
mCC	15.3895646	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	3.139973	1.810013	4.469933
THSm2.2	2.290941	1.337562	3.244319
mCC	15.389565	14.103648	16.675481

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-12.249592	-14.088146	-10.411038
2 3	-13.098624	-14.694111	-11.503137

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.1399726	
THSm2.2	2.2909408	0.3064
mCC	15.3895646	<.0001

95% Confidence Limits			
TRTP	AVAL LSMEAN		
SA	3.139973	1.810013	4.469933
THSm2.2	2.290941	1.337562	3.244319
mCC	15.389565	14.103648	16.675481

**Least Squares Means for Effect**

TRTP			
Difference Between Means		95% Confidence Limits for	
i	j	LSMean(i)-LSMean(j)	
2	1	-0.849032	-2.483659 0.785596
3	1	12.249592	10.411038 14.088146

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	2581.282700	516.256540	36.49	<.0001
Error	142	2008.899733	14.147181		
Corrected Total	147	4590.182432			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.562349	76.36057	3.761274	4.925676

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	44.002203	44.002203	3.11	0.0799
SEX	1	2.136253	2.136253	0.15	0.6982
UCPDGR1	1	32.342041	32.342041	2.29	0.1328
TRTP	2	2502.802203	1251.401102	88.46	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	13.191286	13.191286	0.93	0.3359
SEX	1	4.039197	4.039197	0.29	0.5939
UCPDGR1	1	60.147936	60.147936	4.25	0.0410
TRTP	2	2502.802203	1251.401102	88.46	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.5945872	<.0001
THSm2.2	2.3632295	<.0001
mCC	11.6471135	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	2.594587	1.367873	3.821302
THSm2.2	2.363230	1.470589	3.255870
mCC	11.647114	10.478106	12.816121

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-9.052526	-10.739711	-7.365341
2 3	-9.283884	-10.749208	-7.818560

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.5945872	
THSm2.2	2.3632295	0.7627
mCC	11.6471135	<.0001

95% Confidence Limits			
TRTP	AVAL LSMEAN		
SA	2.594587	1.367873	3.821302
THSm2.2	2.363230	1.470589	3.255870
mCC	11.647114	10.478106	12.816121

**Least Squares Means for Effect**

TRTP			
Difference Between Means		95% Confidence Limits for LSMean(i)-LSMean(j)	
i	j		
2	1	-0.231358	-1.743089 1.280373
3	1	9.052526	7.365341 10.739711

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	52.81383767	10.56276753	110.98	<.0001
Error	151	14.37192610	0.09517832		
Corrected Total	156	67.18576377			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.786087	7.584658	0.308510	4.067551

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	22.82498517	22.82498517	239.81	<.0001
SEX	1	1.24104579	1.24104579	13.04	0.0004
UCPDGR1	1	0.03666738	0.03666738	0.39	0.5357
TRTP	2	28.71113933	14.35556967	150.83	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	13.31024588	13.31024588	139.85	<.0001
SEX	1	1.90706411	1.90706411	20.04	<.0001
UCPDGR1	1	0.01540604	0.01540604	0.16	0.6880
TRTP	2	28.71113933	14.35556967	150.83	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.76511382	<.0001
<b>THSm2.2</b>	3.85725500	<.0001
<b>mCC</b>	4.79435720	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.765114	3.667236 3.862992
<b>THSm2.2</b>	3.857255	3.787003 3.927507
<b>mCC</b>	4.794357	4.699081 4.889634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.029243	-1.165605	-0.892882
<b>2 3</b>	-0.937102	-1.054767	-0.819438

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.76511382	
<b>THSm2.2</b>	3.85725500	0.1318
<b>mCC</b>	4.79435720	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.765114	3.667236 3.862992
<b>THSm2.2</b>	3.857255	3.787003 3.927507
<b>mCC</b>	4.794357	4.699081 4.889634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.092141	-0.028016	0.212299
<b>3 1</b>	1.029243	0.892882	1.165605

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	21.90406853	4.38081371	30.16	<.0001
Error	142	20.62314219	0.14523340		
Corrected Total	147	42.52721072			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.515060	8.209260	0.381095	4.642257

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.03751913	9.03751913	62.23	<.0001
SEX	1	0.95565859	0.95565859	6.58	0.0113
UCPDGR1	1	0.02811437	0.02811437	0.19	0.6606
TRTP	2	11.88277643	5.94138822	40.91	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.65459344	4.65459344	32.05	<.0001
SEX	1	1.36278395	1.36278395	9.38	0.0026
UCPDGR1	1	0.14079133	0.14079133	0.97	0.3265
TRTP	2	11.88277643	5.94138822	40.91	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.51732594	<.0001
<b>THSm2.2</b>	4.46368431	<.0001
<b>mCC</b>	5.11714223	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.517326	4.393016 4.641635
<b>THSm2.2</b>	4.463684	4.373319 4.554050
<b>mCC</b>	5.117142	4.997928 5.236356

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.599816	-0.771552	-0.428081
<b>2 3</b>	-0.653458	-0.802274	-0.504641

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.51732594	
<b>THSm2.2</b>	4.46368431	0.4901
<b>mCC</b>	5.11714223	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.517326	4.393016 4.641635
<b>THSm2.2</b>	4.463684	4.373319 4.554050
<b>mCC</b>	5.117142	4.997928 5.236356

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.053642	-0.206893	0.099610
<b>3 1</b>	0.599816	0.428081	0.771552

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	301.1918430	60.2383686	186.04	<.0001
Error	151	48.8920866	0.3237887		
Corrected Total	156	350.0839296			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.860342	-4469.551	0.569024	-0.012731

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	66.5882257	66.5882257	205.65	<.0001
SEX	1	0.8757571	0.8757571	2.70	0.1021
UCPDGR1	1	0.2757973	0.2757973	0.85	0.3575
TRTP	2	233.4520629	116.7260315	360.50	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	64.8774155	64.8774155	200.37	<.0001
SEX	1	1.6677340	1.6677340	5.15	0.0247
UCPDGR1	1	0.7542219	0.7542219	2.33	0.1290
TRTP	2	233.4520629	116.7260315	360.50	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.89443472	<.0001
<b>THSm2.2</b>	0.16793790	<.0001
<b>mCC</b>	1.47665019	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.894435	-2.074878	-1.713992
<b>THSm2.2</b>	0.167938	0.038335	0.297541
<b>mCC</b>	1.476650	1.301987	1.651313

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-3.371085	-3.621258	-3.120912
<b>2 3</b>	-1.308712	-1.525208	-1.092216

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.89443472	
THSm2.2	0.16793790	<.0001
mCC	1.47665019	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.894435	-2.074878	-1.713992
THSm2.2	0.167938	0.038335	0.297541
mCC	1.476650	1.301987	1.651313

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	2.062373	1.840836	2.283910
3 1	3.371085	3.120912	3.621258

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	218.9618600	43.7923720	69.02	<.0001
Error	142	90.0995068	0.6345036		
Corrected Total	147	309.0613668			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.708474	350.2542	0.796557	0.227423

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	62.7883780	62.7883780	98.96	<.0001
SEX	1	1.4947606	1.4947606	2.36	0.1270
UCPDGR1	1	0.3433060	0.3433060	0.54	0.4632
TRTP	2	154.3354153	77.1677077	121.62	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	61.7512382	61.7512382	97.32	<.0001
SEX	1	1.9712559	1.9712559	3.11	0.0801
UCPDGR1	1	0.5502643	0.5502643	0.87	0.3533
TRTP	2	154.3354153	77.1677077	121.62	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.28227391	<.0001
<b>THSm2.2</b>	0.30398209	<.0001
<b>mCC</b>	1.53134337	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.282274	-1.542075	-1.022473
<b>THSm2.2</b>	0.303982	0.114937	0.493027
<b>mCC</b>	1.531343	1.283655	1.779031

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.813617	-3.170759	-2.456475
<b>2 3</b>	-1.227361	-1.537891	-0.916832

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.28227391	
<b>THSm2.2</b>	0.30398209	<.0001
<b>mCC</b>	1.53134337	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.282274	-1.542075	-1.022473
<b>THSm2.2</b>	0.303982	0.114937	0.493027
<b>mCC</b>	1.531343	1.283655	1.779031

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	1.586256	1.265767	1.906745
<b>3 1</b>	2.813617	2.456475	3.170759

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	80.9899830	16.1979966	89.02	<.0001
Error	151	27.4770295	0.1819671		
Corrected Total	156	108.4670125			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.746678	37.97707	0.426576	1.123246

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.13068145	5.13068145	28.20	<.0001
SEX	1	0.92056304	0.92056304	5.06	0.0259
UCPDGR1	1	0.18578853	0.18578853	1.02	0.3139
TRTP	2	74.75294995	37.37647497	205.40	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.98488192	4.98488192	27.39	<.0001
SEX	1	1.49994903	1.49994903	8.24	0.0047
UCPDGR1	1	0.44503914	0.44503914	2.45	0.1199
TRTP	2	74.75294995	37.37647497	205.40	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.82234024	<.0001
<b>THSm2.2</b>	0.67411098	<.0001
<b>mCC</b>	2.27878753	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.822340	0.686391 0.958290
<b>THSm2.2</b>	0.674111	0.576665 0.771557
<b>mCC</b>	2.278788	2.147899 2.409676

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.456447	-1.644490	-1.268405
<b>2 3</b>	-1.604677	-1.767040	-1.442314

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	0.82234024	
THSm2.2	0.67411098	0.0823
mCC	2.27878753	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	0.822340	0.686391 0.958290
THSm2.2	0.674111	0.576665 0.771557
mCC	2.278788	2.147899 2.409676

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.148229	-0.315652	0.019193
3 1	1.456447	1.268405	1.644490

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	70.7189606	14.1437921	48.97	<.0001
Error	142	41.0129208	0.2888234		
Corrected Total	147	111.7318813			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.632934	45.38206	0.537423	1.184219

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.06894370	1.06894370	3.70	0.0564
SEX	1	0.30934601	0.30934601	1.07	0.3025
UCPDGR1	1	1.52791146	1.52791146	5.29	0.0229
TRTP	2	67.81275942	33.90637971	117.39	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.68133129	0.68133129	2.36	0.1268
SEX	1	0.66676974	0.66676974	2.31	0.1309
UCPDGR1	1	2.24843317	2.24843317	7.78	0.0060
TRTP	2	67.81275942	33.90637971	117.39	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.88479553	<.0001
<b>THSm2.2</b>	0.73123489	<.0001
<b>mCC</b>	2.29206762	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.884796	0.708945 1.060646
<b>THSm2.2</b>	0.731235	0.603419 0.859050
<b>mCC</b>	2.292068	2.125074 2.459061

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.407272	-1.648717	-1.165827
<b>2 3</b>	-1.560833	-1.770204	-1.351461

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.88479553	
<b>THSm2.2</b>	0.73123489	0.1648
<b>mCC</b>	2.29206762	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.884796	0.708945 1.060646
<b>THSm2.2</b>	0.731235	0.603419 0.859050
<b>mCC</b>	2.292068	2.125074 2.459061

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.153561	-0.370982	0.063861
<b>3 1</b>	1.407272	1.165827	1.648717

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	259.5982905	51.9196581	362.71	<.0001
Error	151	21.6149410	0.1431453		
Corrected Total	156	281.2132315			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.923137	20.14171	0.378345	1.878418

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.6774215	4.6774215	32.68	<.0001
SEX	1	0.2153349	0.2153349	1.50	0.2219
UCPDGR1	1	0.0264621	0.0264621	0.18	0.6678
TRTP	2	254.6790720	127.3395360	889.58	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.5305261	4.5305261	31.65	<.0001
SEX	1	0.8511765	0.8511765	5.95	0.0159
UCPDGR1	1	0.3583374	0.3583374	2.50	0.1157
TRTP	2	254.6790720	127.3395360	889.58	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.09092406	<.0001
<b>THSm2.2</b>	1.13684538	<.0001
<b>mCC</b>	4.00084019	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.090924	0.970529	1.211319
<b>THSm2.2</b>	1.136845	1.050369	1.223322
<b>mCC</b>	4.000840	3.884751	4.116930

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.909916	-3.076562	-2.743270
<b>2 3</b>	-2.863995	-3.008031	-2.719959

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.09092406	
<b>THSm2.2</b>	1.13684538	0.5416
<b>mCC</b>	4.00084019	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.090924	0.970529	1.211319
<b>THSm2.2</b>	1.136845	1.050369	1.223322
<b>mCC</b>	4.000840	3.884751	4.116930

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.045921	-0.102395	0.194238
<b>3 1</b>	2.909916	2.743270	3.076562

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	219.5063429	43.9012686	86.33	<.0001
Error	142	72.2071524	0.5085011		
Corrected Total	147	291.7134953			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.752472	34.43815	0.713093	2.070647

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.8431615	0.8431615	1.66	0.2000
SEX	1	0.2477006	0.2477006	0.49	0.4864
UCPDGR1	1	0.9477434	0.9477434	1.86	0.1743
TRTP	2	217.4677374	108.7338687	213.83	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.0236901	1.0236901	2.01	0.1581
SEX	1	0.8165716	0.8165716	1.61	0.2072
UCPDGR1	1	1.8261086	1.8261086	3.59	0.0601
TRTP	2	217.4677374	108.7338687	213.83	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.47487922	<.0001
<b>THSm2.2</b>	1.26736251	<.0001
<b>mCC</b>	4.04492261	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.474879	1.241601	1.708157
<b>THSm2.2</b>	1.267363	1.097493	1.437232
<b>mCC</b>	4.044923	3.823341	4.266504

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.570043	-2.890236	-2.249850
<b>2 3</b>	-2.777560	-3.055664	-2.499456

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	1.47487922	
THSm2.2	1.26736251	0.1576
mCC	4.04492261	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	1.474879	1.241601	1.708157
THSm2.2	1.267363	1.097493	1.437232
mCC	4.044923	3.823341	4.266504

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.207517	-0.496299	0.081266
3 1	2.570043	2.249850	2.890236

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	127.3708354	25.4741671	233.02	<.0001
Error	151	16.5077482	0.1093228		
Corrected Total	156	143.8785836			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.885266	27.21112	0.330640	1.215092

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.7713990	7.7713990	71.09	<.0001
SEX	1	1.2859240	1.2859240	11.76	0.0008
UCPDGR1	1	0.1019668	0.1019668	0.93	0.3357
TRTP	2	118.2115456	59.1057728	540.65	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.6983281	5.6983281	52.12	<.0001
SEX	1	2.0484310	2.0484310	18.74	<.0001
UCPDGR1	1	0.0124876	0.0124876	0.11	0.7359
TRTP	2	118.2115456	59.1057728	540.65	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.76525682	<.0001
<b>THSm2.2</b>	0.67823239	<.0001
<b>mCC</b>	2.66916190	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.765257	0.659994 0.870520
<b>THSm2.2</b>	0.678232	0.602835 0.753630
<b>mCC</b>	2.669162	2.567627 2.770696

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.903905	-2.049892	-1.757918
<b>2 3</b>	-1.990930	-2.116630	-1.865229

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.76525682	
<b>THSm2.2</b>	0.67823239	0.1859
<b>mCC</b>	2.66916190	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.765257	0.659994 0.870520
<b>THSm2.2</b>	0.678232	0.602835 0.753630
<b>mCC</b>	2.669162	2.567627 2.770696

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.087024	-0.216429	0.042380
<b>3 1</b>	1.903905	1.757918	2.049892

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	101.9664327	20.3932865	102.10	<.0001
Error	142	28.3627869	0.1997379		
Corrected Total	147	130.3292196			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.782376	32.13456	0.446921	1.390778

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.35387240	2.35387240	11.78	0.0008
SEX	1	1.70973166	1.70973166	8.56	0.0040
UCPDGR1	1	0.03294819	0.03294819	0.16	0.6852
TRTP	2	97.86988043	48.93494022	245.00	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.63923500	1.63923500	8.21	0.0048
SEX	1	2.43362688	2.43362688	12.18	0.0006
UCPDGR1	1	0.32542107	0.32542107	1.63	0.2039
TRTP	2	97.86988043	48.93494022	245.00	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	1.01168851	<.0001
THSm2.2	0.85501266	<.0001
mCC	2.72266888	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	1.011689	0.865318 1.158059
THSm2.2	0.855013	0.748791 0.961235
mCC	2.722669	2.583732 2.861606

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.710980	-1.912166	-1.509795
2 3	-1.867656	-2.041623	-1.693689

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	1.01168851	
THSm2.2	0.85501266	0.0890
mCC	2.72266888	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	1.011689	0.865318 1.158059
THSm2.2	0.855013	0.748791 0.961235
mCC	2.722669	2.583732 2.861606

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.156676	-0.337550	0.024198
3 1	1.710980	1.509795	1.912166

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 155

**Number of Observations Used** 153

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	36.19713737	7.23942747	31.86	<.0001
Error	147	33.40034440	0.22721323		
Corrected Total	152	69.59748177			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.520093	11.51310	0.476669	4.140231

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.51676768	15.51676768	68.29	<.0001
SEX	1	0.77084619	0.77084619	3.39	0.0675
UCPDGR1	1	0.06592413	0.06592413	0.29	0.5909
TRTP	2	19.84359937	9.92179969	43.67	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	13.15429990	13.15429990	57.89	<.0001
SEX	1	1.04932201	1.04932201	4.62	0.0333
UCPDGR1	1	0.06052694	0.06052694	0.27	0.6065
TRTP	2	19.84359937	9.92179969	43.67	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.92681392	<.0001
<b>THSm2.2</b>	3.95445984	<.0001
<b>mCC</b>	4.78002378	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.926814	3.775485 4.078143
<b>THSm2.2</b>	3.954460	3.845896 4.063023
<b>mCC</b>	4.780024	4.626143 4.933905

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.853210	-1.068524	-0.637896
<b>2 3</b>	-0.825564	-1.012961	-0.638167

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.92681392	
<b>THSm2.2</b>	3.95445984	0.7690
<b>mCC</b>	4.78002378	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.926814	3.775485 4.078143
<b>THSm2.2</b>	3.954460	3.845896 4.063023
<b>mCC</b>	4.780024	4.626143 4.933905

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.027646	-0.158058	0.213350
<b>3 1</b>	0.853210	0.637896	1.068524

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 147

**Number of Observations Used** 144

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	30.3616804	6.0723361	8.40	<.0001
Error	138	99.7369322	0.7227314		
Corrected Total	143	130.0986126			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.233374	19.32996	0.850136	4.398022

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	21.40304090	21.40304090	29.61	<.0001
SEX	1	2.14445942	2.14445942	2.97	0.0872
UCPDGR1	1	0.10304129	0.10304129	0.14	0.7063
TRTP	2	6.71113880	3.35556940	4.64	0.0112

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	19.49829753	19.49829753	26.98	<.0001
SEX	1	2.33478284	2.33478284	3.23	0.0745
UCPDGR1	1	0.09381532	0.09381532	0.13	0.7192
TRTP	2	6.71113880	3.35556940	4.64	0.0112

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.38137852	0.0516
<b>THSm2.2</b>	4.24492365	0.0029
<b>mCC</b>	4.76986637	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.381379	4.104093 4.658664
<b>THSm2.2</b>	4.244924	4.043301 4.446546
<b>mCC</b>	4.769866	4.491946 5.047787

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.388488	-0.779631	0.002655
<b>2 3</b>	-0.524943	-0.866976	-0.182909

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.38137852	
THSm2.2	4.24492365	0.4312
mCC	4.76986637	0.0516

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.381379	4.104093 4.658664
THSm2.2	4.244924	4.043301 4.446546
mCC	4.769866	4.491946 5.047787

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.136455	-0.478218	0.205308
3 1	0.388488	-0.002655	0.779631

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	120.5518135	24.1103627	241.14	<.0001
Error	151	15.0976285	0.0999843		
Corrected Total	156	135.6494420			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.888701	10.67488	0.316203	2.962123

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.58677363	28.58677363	285.91	<.0001
SEX	1	0.41978537	0.41978537	4.20	0.0422
UCPDGR1	1	0.01174904	0.01174904	0.12	0.7322
TRTP	2	91.53350544	45.76675272	457.74	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.02169926	27.02169926	270.26	<.0001
SEX	1	0.14362646	0.14362646	1.44	0.2326
UCPDGR1	1	0.03603238	0.03603238	0.36	0.5492
TRTP	2	91.53350544	45.76675272	457.74	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.45188773	<.0001
<b>THSm2.2</b>	2.51982710	<.0001
<b>mCC</b>	4.22208881	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.451888	2.351614 2.552162
<b>THSm2.2</b>	2.519827	2.447837 2.591817
<b>mCC</b>	4.222089	4.125066 4.319112

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.770201	-1.909218	-1.631184
<b>2 3</b>	-1.702262	-1.822475	-1.582049

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.45188773	
<b>THSm2.2</b>	2.51982710	0.2771
<b>mCC</b>	4.22208881	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.451888	2.351614 2.552162
<b>THSm2.2</b>	2.519827	2.447837 2.591817
<b>mCC</b>	4.222089	4.125066 4.319112

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.067939	-0.055133	0.191012
<b>3 1</b>	1.770201	1.631184	1.909218

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	178.1991848	35.6398370	74.83	<.0001
Error	142	67.6332236	0.4762903		
Corrected Total	147	245.8324084			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.724881	25.20360	0.690138	2.738251

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	12.2274383	12.2274383	25.67	<.0001
SEX	1	0.4229945	0.4229945	0.89	0.3476
UCPDGR1	1	0.6243413	0.6243413	1.31	0.2542
TRTP	2	164.9244108	82.4622054	173.13	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.8187591	11.8187591	24.81	<.0001
SEX	1	0.0889577	0.0889577	0.19	0.6663
UCPDGR1	1	1.4422033	1.4422033	3.03	0.0840
TRTP	2	164.9244108	82.4622054	173.13	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.14303124	<.0001
<b>THSm2.2</b>	2.05887311	<.0001
<b>mCC</b>	4.44788474	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.143031	1.918000 2.368063
<b>THSm2.2</b>	2.058873	1.895198 2.222549
<b>mCC</b>	4.447885	4.233436 4.662334

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.304854	-2.614271	-1.995436
<b>2 3</b>	-2.389012	-2.657665	-2.120358

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.14303124	
<b>THSm2.2</b>	2.05887311	0.5497
<b>mCC</b>	4.44788474	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.143031	1.918000 2.368063
<b>THSm2.2</b>	2.058873	1.895198 2.222549
<b>mCC</b>	4.447885	4.233436 4.662334

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.084158	-0.361594	0.193278
<b>3 1</b>	2.304854	1.995436	2.614271

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	61.59201405	12.31840281	107.86	<.0001
Error	151	17.24509201	0.11420591		
Corrected Total	156	78.83710606			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.781257	4.685679	0.337944	7.212267

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	45.75198375	45.75198375	400.61	<.0001
SEX	1	0.73896197	0.73896197	6.47	0.0120
UCPDGR1	1	0.14902925	0.14902925	1.30	0.2551
TRTP	2	14.95203909	7.47601954	65.46	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	34.47944978	34.47944978	301.91	<.0001
SEX	1	0.86950039	0.86950039	7.61	0.0065
UCPDGR1	1	0.06821299	0.06821299	0.60	0.4408
TRTP	2	14.95203909	7.47601954	65.46	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.02275226	<.0001
<b>THSm2.2</b>	7.04398183	<.0001
<b>mCC</b>	7.73427722	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.022752	6.915541 7.129963
<b>THSm2.2</b>	7.043982	6.966959 7.121004
<b>mCC</b>	7.734277	7.630511 7.838044

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.711525	-0.860096	-0.562954
<b>2 3</b>	-0.690295	-0.818773	-0.561818

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.02275226	
<b>THSm2.2</b>	7.04398183	0.7502
<b>mCC</b>	7.73427722	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.022752	6.915541 7.129963
<b>THSm2.2</b>	7.043982	6.966959 7.121004
<b>mCC</b>	7.734277	7.630511 7.838044

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.021230	-0.110292	0.152751
<b>3 1</b>	0.711525	0.562954	0.860096

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	56.60895614	11.32179123	47.49	<.0001
Error	142	33.85623112	0.23842416		
Corrected Total	147	90.46518726			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.625754	6.376044	0.488287	7.658149

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	37.02704425	37.02704425	155.30	<.0001
SEX	1	0.32537422	0.32537422	1.36	0.2447
UCPDGR1	1	0.00715927	0.00715927	0.03	0.8627
TRTP	2	19.24937840	9.62468920	40.37	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	29.35706066	29.35706066	123.13	<.0001
SEX	1	0.42434176	0.42434176	1.78	0.1843
UCPDGR1	1	0.00422446	0.00422446	0.02	0.8943
TRTP	2	19.24937840	9.62468920	40.37	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.43004750	<.0001
<b>THSm2.2</b>	7.44993657	<.0001
<b>mCC</b>	8.24939371	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.430048	7.270836 7.589259
<b>THSm2.2</b>	7.449937	7.333935 7.565938
<b>mCC</b>	8.249394	8.097614 8.401173

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.819346	-1.038292	-0.600400
<b>2 3</b>	-0.799457	-0.989523	-0.609391

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.43004750	
<b>THSm2.2</b>	7.44993657	0.8416
<b>mCC</b>	8.24939371	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.430048	7.270836 7.589259
<b>THSm2.2</b>	7.449937	7.333935 7.565938
<b>mCC</b>	8.249394	8.097614 8.401173

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.019889	-0.176471	0.216250
<b>3 1</b>	0.819346	0.600400	1.038292

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	66.88878950	13.37775790	75.83	<.0001
Error	151	26.64046630	0.17642693		
Corrected Total	156	93.52925580			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.715164	12.58221	0.420032	3.338302

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.58816292	9.58816292	54.35	<.0001
SEX	1	2.14198879	2.14198879	12.14	0.0006
UCPDGR1	1	0.13159409	0.13159409	0.75	0.3892
TRTP	2	55.02704370	27.51352185	155.95	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.14241141	7.14241141	40.48	<.0001
SEX	1	2.78930807	2.78930807	15.81	0.0001
UCPDGR1	1	0.00421053	0.00421053	0.02	0.8774
TRTP	2	55.02704370	27.51352185	155.95	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	2.93393156	<.0001
THSm2.2	3.03457541	<.0001
mCC	4.33678759	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	2.933932	2.800392 3.067471
THSm2.2	3.034575	2.938775 3.130376
mCC	4.336788	4.207805 4.465771

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.402856	-1.588113	-1.217599
2 3	-1.302212	-1.461898	-1.142527

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	2.93393156	
THSm2.2	3.03457541	0.2278
mCC	4.33678759	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	2.933932	2.800392 3.067471
THSm2.2	3.034575	2.938775 3.130376
mCC	4.336788	4.207805 4.465771

**Least Squares Means for Effect**

TRTP		Difference		95% Confidence	
		Between		Limits for	
i	j	Means	LSMean(i)-LSMean(j)		
2	1	0.100644	-0.063555	0.264842	
3	1	1.402856	1.217599	1.588113	

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	49.6578684	9.9315737	25.69	<.0001
Error	142	54.9019249	0.3866333		
Corrected Total	147	104.5597932			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.474923	16.86552	0.621798	3.686802

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	10.91381001	10.91381001	28.23	<.0001
SEX	1	2.98456816	2.98456816	7.72	0.0062
UCPDGR1	1	0.33507481	0.33507481	0.87	0.3535
TRTP	2	35.42441538	17.71220769	45.81	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.35076285	8.35076285	21.60	<.0001
SEX	1	3.64084245	3.64084245	9.42	0.0026
UCPDGR1	1	0.61261812	0.61261812	1.58	0.2102
TRTP	2	35.42441538	17.71220769	45.81	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43713414	<.0001
<b>THSm2.2</b>	3.39551873	<.0001
<b>mCC</b>	4.50343280	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.437134	3.233723 3.640545
<b>THSm2.2</b>	3.395519	3.247504 3.543533
<b>mCC</b>	4.503433	4.310190 4.696676

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.066299	-1.345798	-0.786799
<b>2 3</b>	-1.107914	-1.350106	-0.865722

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43713414	
<b>THSm2.2</b>	3.39551873	0.7442
<b>mCC</b>	4.50343280	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.437134	3.233723 3.640545
<b>THSm2.2</b>	3.395519	3.247504 3.543533
<b>mCC</b>	4.503433	4.310190 4.696676

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.041615	-0.293285	0.210054
<b>3 1</b>	1.066299	0.786799	1.345798

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	27.28736193	5.45747239	45.78	<.0001
Error	151	18.00150341	0.11921525		
Corrected Total	156	45.28886534			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.602518	6.871961	0.345276	5.024412

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.62759392	1.62759392	13.65	0.0003
SEX	1	1.94983047	1.94983047	16.36	<.0001
UCPDGR1	1	0.05898704	0.05898704	0.49	0.4829
TRTP	2	23.65095050	11.82547525	99.19	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.24795984	2.24795984	18.86	<.0001
SEX	1	2.33010453	2.33010453	19.55	<.0001
UCPDGR1	1	0.00805720	0.00805720	0.07	0.7952
TRTP	2	23.65095050	11.82547525	99.19	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.74844023	<.0001
<b>THSm2.2</b>	4.83956857	<.0001
<b>mCC</b>	5.68225691	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.748440	4.638952 4.857928
<b>THSm2.2</b>	4.839569	4.760958 4.918179
<b>mCC</b>	5.682257	5.576311 5.788203

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.933817	-1.085611	-0.782022
<b>2 3</b>	-0.842688	-0.973953	-0.711424

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.74844023	
<b>THSm2.2</b>	4.83956857	0.1823
<b>mCC</b>	5.68225691	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.748440	4.638952 4.857928
<b>THSm2.2</b>	4.839569	4.760958 4.918179
<b>mCC</b>	5.682257	5.576311 5.788203

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.091128	-0.043249	0.225506
<b>3 1</b>	0.933817	0.782022	1.085611

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	24.17774471	4.83554894	29.48	<.0001
Error	142	23.28828537	0.16400201		
Corrected Total	147	47.46603009			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.509369	7.744163	0.404972	5.229379

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.00344456	0.00344456	0.02	0.8850
SEX	1	10.72250791	10.72250791	65.38	<.0001
UCPDGR1	1	0.03969487	0.03969487	0.24	0.6235
TRTP	2	13.41209736	6.70604868	40.89	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.40877929	0.40877929	2.49	0.1166
SEX	1	11.43412468	11.43412468	69.72	<.0001
UCPDGR1	1	0.10073809	0.10073809	0.61	0.4345
TRTP	2	13.41209736	6.70604868	40.89	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.11064659	<.0001
<b>THSm2.2</b>	5.06881903	<.0001
<b>mCC</b>	5.75575836	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.110647	4.978485 5.242808
<b>THSm2.2</b>	5.068819	4.972752 5.164886
<b>mCC</b>	5.755758	5.629874 5.881643

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.645112	-0.826689	-0.463535
<b>2 3</b>	-0.686939	-0.844695	-0.529183

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.11064659	
<b>THSm2.2</b>	5.06881903	0.6128
<b>mCC</b>	5.75575836	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.110647	4.978485 5.242808
<b>THSm2.2</b>	5.068819	4.972752 5.164886
<b>mCC</b>	5.755758	5.629874 5.881643

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.041828	-0.204827	0.121172
<b>3 1</b>	0.645112	0.463535	0.826689

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	23.74387292	4.74877458	52.46	<.0001
Error	151	13.66804162	0.09051683		
Corrected Total	156	37.41191454			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.634661	3.817980	0.300860	7.880086

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	21.68235179	21.68235179	239.54	<.0001
SEX	1	1.30056966	1.30056966	14.37	0.0002
UCPDGR1	1	0.13876303	0.13876303	1.53	0.2176
TRTP	2	0.62218845	0.31109422	3.44	0.0347

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	12.11044347	12.11044347	133.79	<.0001
SEX	1	1.44852451	1.44852451	16.00	<.0001
UCPDGR1	1	0.15412719	0.15412719	1.70	0.1939
TRTP	2	0.62218845	0.31109422	3.44	0.0347

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.89871377	0.1574
<b>THSm2.2</b>	7.84281167	0.0097
<b>mCC</b>	7.99560736	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.898714	7.802892 7.994535
<b>THSm2.2</b>	7.842812	7.774253 7.911370
<b>mCC</b>	7.995607	7.901811 8.089404

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.096894	-0.231619	0.037832
<b>2 3</b>	-0.152796	-0.267992	-0.037599

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.89871377	
<b>THSm2.2</b>	7.84281167	0.3495
<b>mCC</b>	7.99560736	0.1574

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.898714	7.802892 7.994535
<b>THSm2.2</b>	7.842812	7.774253 7.911370
<b>mCC</b>	7.995607	7.901811 8.089404

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.055902	-0.173596	0.061792
<b>3 1</b>	0.096894	-0.037832	0.231619

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	31.69752531	6.33950506	18.80	<.0001
Error	142	47.87476626	0.33714624		
Corrected Total	147	79.57229157			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.398349	7.174493	0.580643	8.093157

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	30.04103927	30.04103927	89.10	<.0001
SEX	1	0.94808094	0.94808094	2.81	0.0958
UCPDGR1	1	0.00027993	0.00027993	0.00	0.9771
TRTP	2	0.70812518	0.35406259	1.05	0.3526

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	19.88836337	19.88836337	58.99	<.0001
SEX	1	0.77834551	0.77834551	2.31	0.1309
UCPDGR1	1	0.00046494	0.00046494	0.00	0.9704
TRTP	2	0.70812518	0.35406259	1.05	0.3526

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.19862387	0.1519
<b>THSm2.2</b>	8.11228981	0.3542
<b>mCC</b>	8.00545867	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.198624	8.008274 8.388974
<b>THSm2.2</b>	8.112290	7.974478 8.250102
<b>mCC</b>	8.005459	7.822545 8.188372

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.193165	-0.071888	0.458219
<b>2 3</b>	0.106831	-0.120383	0.334045

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.19862387	
<b>THSm2.2</b>	8.11228981	0.4686
<b>mCC</b>	8.00545867	0.1519

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.198624	8.008274 8.388974
<b>THSm2.2</b>	8.112290	7.974478 8.250102
<b>mCC</b>	8.005459	7.822545 8.188372

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.086334	-0.321164	0.148496
<b>3 1</b>	-0.193165	-0.458219	0.071888

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	400.7211378	80.1442276	456.23	<.0001
Error	151	26.5253721	0.1756647		
Corrected Total	156	427.2465099			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.937916	48.63318	0.419124	0.861806

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.0661011	24.0661011	137.00	<.0001
SEX	1	0.1723216	0.1723216	0.98	0.3235
UCPDGR1	1	0.0240082	0.0240082	0.14	0.7121
TRTP	2	376.4587070	188.2293535	1071.53	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.0716076	15.0716076	85.80	<.0001
SEX	1	0.0848198	0.0848198	0.48	0.4882
UCPDGR1	1	0.0706729	0.0706729	0.40	0.5269
TRTP	2	376.4587070	188.2293535	1071.53	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.83453658	<.0001
THSm2.2	1.80250387	0.0677
mCC	1.65410552	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.834537	-1.967512	-1.701561
THSm2.2	1.802504	1.707051	1.897956
mCC	1.654106	1.525504	1.782707

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-3.488642	-3.672959	-3.304325
2 3	0.148398	-0.010959	0.307755

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.83453658	
THSm2.2	1.80250387	<.0001
mCC	1.65410552	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.834537	-1.967512	-1.701561
THSm2.2	1.802504	1.707051	1.897956
mCC	1.654106	1.525504	1.782707

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LSMean(i)-LSMean(j)		
2	1	3.637040	3.473775	3.800306
3	1	3.488642	3.304325	3.672959

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	255.8118335	51.1623667	38.68	<.0001
Error	142	187.8053704	1.3225730		
Corrected Total	147	443.6172040			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.576650	97.77787	1.150032	1.176168

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	35.7082855	35.7082855	27.00	<.0001
SEX	1	0.7373810	0.7373810	0.56	0.4565
UCPDGR1	1	0.4259940	0.4259940	0.32	0.5712
TRTP	2	218.9401730	109.4700865	82.77	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	21.6247756	21.6247756	16.35	<.0001
SEX	1	0.6126202	0.6126202	0.46	0.4972
UCPDGR1	1	0.6263936	0.6263936	0.47	0.4925
TRTP	2	218.9401730	109.4700865	82.77	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-0.92156068	<.0001
<b>THSm2.2</b>	1.90881360	0.8529
<b>mCC</b>	1.86674099	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-0.921561	-1.297072	-0.546049
<b>THSm2.2</b>	1.908814	1.635902	2.181725
<b>mCC</b>	1.866741	1.509385	2.224097

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.788302	-3.304406	-2.272197
<b>2 3</b>	0.042073	-0.405605	0.489751

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-0.92156068	
<b>THSm2.2</b>	1.90881360	<.0001
<b>mCC</b>	1.86674099	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-0.921561	-1.297072	-0.546049
<b>THSm2.2</b>	1.908814	1.635902	2.181725
<b>mCC</b>	1.866741	1.509385	2.224097

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	2.830374	2.367069	3.293679
<b>3 1</b>	2.788302	2.272197	3.304406

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	143.2469744	28.6493949	87.49	<.0001
Error	151	49.4438993	0.3274430		
Corrected Total	156	192.6908738			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.743403	11.16318	0.572226	5.126014

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.6340261	14.6340261	44.69	<.0001
SEX	1	0.5886292	0.5886292	1.80	0.1820
UCPDGR1	1	0.2995822	0.2995822	0.91	0.3403
TRTP	2	127.7247369	63.8623684	195.03	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.5224339	8.5224339	26.03	<.0001
SEX	1	0.3079900	0.3079900	0.94	0.3337
UCPDGR1	1	0.0002416	0.0002416	0.00	0.9784
TRTP	2	127.7247369	63.8623684	195.03	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.60401329	<.0001
<b>THSm2.2</b>	4.55678765	<.0001
<b>mCC</b>	6.61618897	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.604013	4.422378 4.785648
<b>THSm2.2</b>	4.556788	4.426491 4.687084
<b>mCC</b>	6.616189	6.440358 6.792020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.012176	-2.264371	-1.759981
<b>2 3</b>	-2.059401	-2.277253	-1.841550

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.60401329	
THSm2.2	4.55678765	0.6759
mCC	6.61618897	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.604013	4.422378 4.785648
THSm2.2	4.556788	4.426491 4.687084
mCC	6.616189	6.440358 6.792020

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.047226	-0.270012	0.175561
3 1	2.012176	1.759981	2.264371

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	116.1401863	23.2280373	54.68	<.0001
Error	142	60.3260004	0.4248310		
Corrected Total	147	176.4661867			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.658144	11.78527	0.651791	5.530552

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	33.44613938	33.44613938	78.73	<.0001
SEX	1	5.61701942	5.61701942	13.22	0.0004
UCPDGR1	1	0.06551645	0.06551645	0.15	0.6951
TRTP	2	77.01151103	38.50575551	90.64	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	18.32623996	18.32623996	43.14	<.0001
SEX	1	5.15866053	5.15866053	12.14	0.0007
UCPDGR1	1	0.57944117	0.57944117	1.36	0.2448
TRTP	2	77.01151103	38.50575551	90.64	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.04772291	<.0001
<b>THSm2.2</b>	5.06760222	<.0001
<b>mCC</b>	6.67961872	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.047723	4.835083 5.260363
<b>THSm2.2</b>	5.067602	4.913003 5.222202
<b>mCC</b>	6.679619	6.476570 6.882667

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.631896	-1.924919	-1.338872
<b>2 3</b>	-1.612017	-1.866413	-1.357620

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.04772291	
THSm2.2	5.06760222	0.8810
mCC	6.67961872	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.047723	4.835083 5.260363
THSm2.2	5.067602	4.913003 5.222202
mCC	6.679619	6.476570 6.882667

**Least Squares Means for Effect**

TRTP		Difference		95% Confidence	
		Between		Limits for	
i	j	Means	LSMean(i)-LSMean(j)		
2	1	0.019879	-0.242091	0.281850	
3	1	1.631896	1.338872	1.924919	

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	38.94844286	7.78968857	62.29	<.0001
Error	151	18.88194606	0.12504600		
Corrected Total	156	57.83038892			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.673494	5.935553	0.353618	5.957632

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.78407423	6.78407423	54.25	<.0001
SEX	1	2.43615225	2.43615225	19.48	<.0001
UCPDGR1	1	0.06450554	0.06450554	0.52	0.4737
TRTP	2	29.66371084	14.83185542	118.61	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.29683027	5.29683027	42.36	<.0001
SEX	1	1.64957113	1.64957113	13.19	0.0004
UCPDGR1	1	0.04653608	0.04653608	0.37	0.5428
TRTP	2	29.66371084	14.83185542	118.61	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.39882523	<.0001
<b>THSm2.2</b>	5.85821888	<.0001
<b>mCC</b>	6.59315702	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.398825	5.286667	5.510983
<b>THSm2.2</b>	5.858219	5.777698	5.938739
<b>mCC</b>	6.593157	6.484371	6.701943

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.194332	-1.350149	-1.038514
<b>2 3</b>	-0.734938	-0.869528	-0.600348

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.39882523	
THSm2.2	5.85821888	<.0001
mCC	6.59315702	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	5.398825	5.286667	5.510983
THSm2.2	5.858219	5.777698	5.938739
mCC	6.593157	6.484371	6.701943

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.459394	0.321711	0.597076
3 1	1.194332	1.038514	1.350149

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	26.57448377	5.31489675	33.25	<.0001
Error	142	22.69899873	0.15985210		
Corrected Total	147	49.27348250			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.539326	6.504473	0.399815	6.146771

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.73721286	6.73721286	42.15	<.0001
SEX	1	3.01288964	3.01288964	18.85	<.0001
UCPDGR1	1	0.13443187	0.13443187	0.84	0.3607
TRTP	2	16.68994941	8.34497470	52.20	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.15436288	4.15436288	25.99	<.0001
SEX	1	2.50711971	2.50711971	15.68	0.0001
UCPDGR1	1	0.14524225	0.14524225	0.91	0.3421
TRTP	2	16.68994941	8.34497470	52.20	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.72235478	<.0001
THSm2.2	6.05338111	<.0001
mCC	6.62953623	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.722355	5.591987 5.852722
THSm2.2	6.053381	5.958577 6.148185
mCC	6.629536	6.504888 6.754185

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.907181	-1.086787	-0.727575
2 3	-0.576155	-0.732209	-0.420101

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.72235478	
THSm2.2	6.05338111	<.0001
mCC	6.62953623	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.722355	5.591987 5.852722
THSm2.2	6.053381	5.958577 6.148185
mCC	6.629536	6.504888 6.754185

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	0.331026	0.170337	0.491716
3	1	0.907181	0.727575	1.086787

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	200.6843996	40.1368799	165.03	<.0001
Error	151	36.7247104	0.2432100		
Corrected Total	156	237.4091100			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.845310	8.940341	0.493163	5.516157

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	36.9456958	36.9456958	151.91	<.0001
SEX	1	0.9963216	0.9963216	4.10	0.0447
UCPDGR1	1	0.1956589	0.1956589	0.80	0.3712
TRTP	2	162.5467233	81.2733616	334.17	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	30.9005051	30.9005051	127.05	<.0001
SEX	1	0.4510245	0.4510245	1.85	0.1753
UCPDGR1	1	0.0007903	0.0007903	0.00	0.9546
TRTP	2	162.5467233	81.2733616	334.17	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.83699735	<.0001
THSm2.2	4.92177395	<.0001
mCC	7.19290260	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.836997	4.680597 4.993397
THSm2.2	4.921774	4.809495 5.034052
mCC	7.192903	7.041559 7.344247

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-2.355905	-2.572788	-2.139023
2 3	-2.271129	-2.458638	-2.083620

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.83699735	
<b>THSm2.2</b>	4.92177395	0.3842
<b>mCC</b>	7.19290260	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.836997	4.680597 4.993397
<b>THSm2.2</b>	4.921774	4.809495 5.034052
<b>mCC</b>	7.192903	7.041559 7.344247

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.084777	-0.107173	0.276726
<b>3 1</b>	2.355905	2.139023	2.572788

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	166.3349248	33.2669850	79.98	<.0001
Error	142	59.0642877	0.4159457		
Corrected Total	147	225.3992125			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.737957	11.38766	0.644939	5.663486

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	46.6077969	46.6077969	112.05	<.0001
SEX	1	0.1728643	0.1728643	0.42	0.5202
UCPDGR1	1	0.2791331	0.2791331	0.67	0.4140
TRTP	2	119.2751305	59.6375652	143.38	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	35.2544958	35.2544958	84.76	<.0001
SEX	1	0.0334914	0.0334914	0.08	0.7770
UCPDGR1	1	1.0125439	1.0125439	2.43	0.1209
TRTP	2	119.2751305	59.6375652	143.38	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.11246759	<.0001
<b>THSm2.2</b>	5.10971416	<.0001
<b>mCC</b>	7.11979397	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.112468	4.902173 5.322762
<b>THSm2.2</b>	5.109714	4.956798 5.262630
<b>mCC</b>	7.119794	6.919270 7.320318

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.007326	-2.296614	-1.718039
<b>2 3</b>	-2.010080	-2.261244	-1.758916

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.11246759	
THSm2.2	5.10971416	0.9833
mCC	7.11979397	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.112468	4.902173 5.322762
THSm2.2	5.109714	4.956798 5.262630
mCC	7.119794	6.919270 7.320318

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.002753	-0.261959	0.256452
3 1	2.007326	1.718039	2.296614

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	101.7546073	20.3509215	220.40	<.0001
Error	151	13.9427619	0.0923362		
Corrected Total	156	115.6973692			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.879489	7.644496	0.303869	3.974999

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	72.66867843	72.66867843	787.00	<.0001
SEX	1	1.03854186	1.03854186	11.25	0.0010
UCPDGR1	1	0.18129651	0.18129651	1.96	0.1632
TRTP	2	27.86609048	13.93304524	150.89	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	47.26835607	47.26835607	511.92	<.0001
SEX	1	0.85757336	0.85757336	9.29	0.0027
UCPDGR1	1	0.35505778	0.35505778	3.85	0.0517
TRTP	2	27.86609048	13.93304524	150.89	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	3.62178287	<.0001
THSm2.2	3.75948441	<.0001
mCC	4.65698897	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	3.621783	3.525243 3.718322
THSm2.2	3.759484	3.690302 3.828667
mCC	4.656989	4.563726 4.750252

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.035206	-1.168852	-0.901561
2 3	-0.897505	-1.013043	-0.781966

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	3.62178287	
THSm2.2	3.75948441	0.0229
mCC	4.65698897	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	3.621783	3.525243 3.718322
THSm2.2	3.759484	3.690302 3.828667
mCC	4.656989	4.563726 4.750252

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.137702	0.019301	0.256102
3 1	1.035206	0.901561	1.168852

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	133.3461432	26.6692286	46.60	<.0001
Error	142	81.2632690	0.5722765		
Corrected Total	147	214.6094122			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.621343	21.49542	0.756490	3.519305

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	51.07325323	51.07325323	89.25	<.0001
SEX	1	2.76331104	2.76331104	4.83	0.0296
UCPDGR1	1	2.64610248	2.64610248	4.62	0.0332
TRTP	2	76.86347647	38.43173823	67.16	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.95673063	24.95673063	43.61	<.0001
SEX	1	2.69257224	2.69257224	4.71	0.0317
UCPDGR1	1	3.51163410	3.51163410	6.14	0.0144
TRTP	2	76.86347647	38.43173823	67.16	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.80031686	<.0001
<b>THSm2.2</b>	3.22252561	<.0001
<b>mCC</b>	4.64199127	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.800317	2.552985 3.047649
<b>THSm2.2</b>	3.222526	3.043122 3.401930
<b>mCC</b>	4.641991	4.406809 4.877173

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.841674	-2.181009	-1.502339
<b>2 3</b>	-1.419466	-1.714124	-1.124808

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.80031686	
<b>THSm2.2</b>	3.22252561	0.0070
<b>mCC</b>	4.64199127	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.800317	2.552985 3.047649
<b>THSm2.2</b>	3.222526	3.043122 3.401930
<b>mCC</b>	4.641991	4.406809 4.877173

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.422209	0.117333	0.727084
<b>3 1</b>	1.841674	1.502339	2.181009

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	44.45077530	8.89015506	57.45	<.0001
Error	151	23.36501343	0.15473519		
Corrected Total	156	67.81578874			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.655464	9.255243	0.393364	4.250174

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.76310844	11.76310844	76.02	<.0001
SEX	1	0.16626122	0.16626122	1.07	0.3016
UCPDGR1	1	0.00778849	0.00778849	0.05	0.8228
TRTP	2	32.51361715	16.25680858	105.06	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.32671606	8.32671606	53.81	<.0001
SEX	1	0.25053541	0.25053541	1.62	0.2052
UCPDGR1	1	0.13898383	0.13898383	0.90	0.3448
TRTP	2	32.51361715	16.25680858	105.06	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.94564321	<.0001
<b>THSm2.2</b>	4.00060813	<.0001
<b>mCC</b>	5.01219785	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.945643	3.820710 4.070577
<b>THSm2.2</b>	4.000608	3.911040 4.090176
<b>mCC</b>	5.012198	4.891340 5.133056

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.066555	-1.240006	-0.893103
<b>2 3</b>	-1.011590	-1.161330	-0.861849

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.94564321	
<b>THSm2.2</b>	4.00060813	0.4795
<b>mCC</b>	5.01219785	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.945643	3.820710 4.070577
<b>THSm2.2</b>	4.000608	3.911040 4.090176
<b>mCC</b>	5.012198	4.891340 5.133056

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.054965	-0.098233	0.208163
<b>3 1</b>	1.066555	0.893103	1.240006

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	17.36742281	3.47348456	17.98	<.0001
Error	142	27.42647512	0.19314419		
Corrected Total	147	44.79389793			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.387718	9.245758	0.439482	4.753334

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.50057046	5.50057046	28.48	<.0001
SEX	1	0.81572727	0.81572727	4.22	0.0417
UCPDGR1	1	0.34950792	0.34950792	1.81	0.1807
TRTP	2	10.70161716	5.35080858	27.70	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.92813578	2.92813578	15.16	0.0002
SEX	1	0.72473649	0.72473649	3.75	0.0547
UCPDGR1	1	0.58682144	0.58682144	3.04	0.0835
TRTP	2	10.70161716	5.35080858	27.70	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.61004071	<.0001
<b>THSm2.2</b>	4.56629819	<.0001
<b>mCC</b>	5.18309069	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.610041	4.466652 4.753429
<b>THSm2.2</b>	4.566298	4.462077 4.670519
<b>mCC</b>	5.183091	5.046277 5.319904

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.573050	-0.770549	-0.375551
<b>2 3</b>	-0.616793	-0.788171	-0.445414

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.61004071	
<b>THSm2.2</b>	4.56629819	0.6252
<b>mCC</b>	5.18309069	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.610041	4.466652 4.753429
<b>THSm2.2</b>	4.566298	4.462077 4.670519
<b>mCC</b>	5.183091	5.046277 5.319904

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.043743	-0.220395	0.132910
<b>3 1</b>	0.573050	0.375551	0.770549

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	301.4120724	60.2824145	170.53	<.0001
Error	151	53.3777918	0.3534953		
Corrected Total	156	354.7898642			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.849551	349.9606	0.594555	0.169892

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	66.5989690	66.5989690	188.40	<.0001
SEX	1	0.0292961	0.0292961	0.08	0.7738
UCPDGR1	1	0.2874985	0.2874985	0.81	0.3686
TRTP	2	234.4963088	117.2481544	331.68	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	61.5565217	61.5565217	174.14	<.0001
SEX	1	0.0434602	0.0434602	0.12	0.7264
UCPDGR1	1	0.7444302	0.7444302	2.11	0.1488
TRTP	2	234.4963088	117.2481544	331.68	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.70772854	<.0001
<b>THSm2.2</b>	0.31056443	<.0001
<b>mCC</b>	1.68003755	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.707729	-1.896304	-1.519153
<b>THSm2.2</b>	0.310564	0.175187	0.445942
<b>mCC</b>	1.680038	1.497373	1.862702

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-3.387766	-3.649195	-3.126338
<b>2 3</b>	-1.369473	-1.595789	-1.143157

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.70772854	
<b>THSm2.2</b>	0.31056443	<.0001
<b>mCC</b>	1.68003755	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.707729	-1.896304	-1.519153
<b>THSm2.2</b>	0.310564	0.175187	0.445942
<b>mCC</b>	1.680038	1.497373	1.862702

**Least Squares Means for Effect**

		<b>TRTP</b>		
		<b>Difference</b>	<b>95% Confidence</b>	
		<b>Between</b>	<b>Limits for</b>	
<b>i</b>	<b>j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2</b>	<b>1</b>	2.018293	1.786811	2.249775
<b>3</b>	<b>1</b>	3.387766	3.126338	3.649195

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	224.2952633	44.8590527	75.72	<.0001
Error	142	84.1251390	0.5924306		
Corrected Total	147	308.4204023			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.727239	227.8434	0.769695	0.337818

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	71.8535085	71.8535085	121.29	<.0001
SEX	1	0.1242917	0.1242917	0.21	0.6476
UCPDGR1	1	0.6527031	0.6527031	1.10	0.2957
TRTP	2	151.6647600	75.8323800	128.00	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	64.5990433	64.5990433	109.04	<.0001
SEX	1	0.0233680	0.0233680	0.04	0.8429
UCPDGR1	1	0.8736790	0.8736790	1.47	0.2266
TRTP	2	151.6647600	75.8323800	128.00	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.18640400	<.0001
<b>THSm2.2</b>	0.41108613	<.0001
<b>mCC</b>	1.60091549	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.186404	-1.437470	-0.935338
<b>THSm2.2</b>	0.411086	0.228522	0.593650
<b>mCC</b>	1.600915	1.361349	1.840482

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.787319	-3.132472	-2.442167
<b>2 3</b>	-1.189829	-1.490011	-0.889647

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.18640400	
<b>THSm2.2</b>	0.41108613	<.0001
<b>mCC</b>	1.60091549	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.186404	-1.437470	-0.935338
<b>THSm2.2</b>	0.411086	0.228522	0.593650
<b>mCC</b>	1.600915	1.361349	1.840482

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	1.597490	1.287888	1.907092
<b>3 1</b>	2.787319	2.442167	3.132472

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	85.2619102	17.0523820	81.45	<.0001
Error	151	31.6146122	0.2093683		
Corrected Total	156	116.8765224			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.729504	35.03933	0.457568	1.305869

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.55587857	5.55587857	26.54	<.0001
SEX	1	0.56744725	0.56744725	2.71	0.1018
UCPDGR1	1	0.29373738	0.29373738	1.40	0.2381
TRTP	2	78.84484701	39.42242350	188.29	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.96317439	3.96317439	18.93	<.0001
SEX	1	0.16539220	0.16539220	0.79	0.3755
UCPDGR1	1	0.51491934	0.51491934	2.46	0.1189
TRTP	2	78.84484701	39.42242350	188.29	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	1.00049734	<.0001
THSm2.2	0.81318722	<.0001
mCC	2.47115819	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	1.000497	0.854237	1.146758
THSm2.2	0.813187	0.708873	0.917501
mCC	2.471158	2.330577	2.611739

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.470661	-1.672140	-1.269182
2 3	-1.657971	-1.832380	-1.483562

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.00049734	
<b>THSm2.2</b>	0.81318722	0.0411
<b>mCC</b>	2.47115819	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.000497	0.854237 1.146758
<b>THSm2.2</b>	0.813187	0.708873 0.917501
<b>mCC</b>	2.471158	2.330577 2.611739

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.187310	-0.366982	-0.007638
<b>3 1</b>	1.470661	1.269182	1.672140

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	74.0548585	14.8109717	45.59	<.0001
Error	142	46.1325532	0.3248771		
Corrected Total	147	120.1874117			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.616162	44.00387	0.569980	1.295295

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.21626717	5.21626717	16.06	<.0001
SEX	1	2.96144575	2.96144575	9.12	0.0030
UCPDGR1	1	2.02027295	2.02027295	6.22	0.0138
TRTP	2	63.85687260	31.92843630	98.28	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.64061171	1.64061171	5.05	0.0262
SEX	1	2.27658740	2.27658740	7.01	0.0090
UCPDGR1	1	2.65693794	2.65693794	8.18	0.0049
TRTP	2	63.85687260	31.92843630	98.28	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.98616900	<.0001
<b>THSm2.2</b>	0.82555165	<.0001
<b>mCC</b>	2.34393596	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.986169	0.799483 1.172855
<b>THSm2.2</b>	0.825552	0.690284 0.960819
<b>mCC</b>	2.343936	2.166675 2.521197

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.357767	-1.613521	-1.102013
<b>2 3</b>	-1.518384	-1.740619	-1.296149

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	0.98616900	
THSm2.2	0.82555165	0.1702
mCC	2.34393596	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	0.986169	0.799483 1.172855
THSm2.2	0.825552	0.690284 0.960819
mCC	2.343936	2.166675 2.521197

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.160617	-0.390921	0.069687
3 1	1.357767	1.102013	1.613521

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	267.6607487	53.5321497	304.85	<.0001
Error	151	26.5154720	0.1755992		
Corrected Total	156	294.1762208			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.909865	20.33175	0.419046	2.061041

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.4269589	4.4269589	25.21	<.0001
SEX	1	1.8094085	1.8094085	10.30	0.0016
UCPDGR1	1	0.1607340	0.1607340	0.92	0.3402
TRTP	2	261.2636473	130.6318237	743.92	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.2848258	3.2848258	18.71	<.0001
SEX	1	0.5352528	0.5352528	3.05	0.0829
UCPDGR1	1	0.4849917	0.4849917	2.76	0.0986
TRTP	2	261.2636473	130.6318237	743.92	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.26778139	<.0001
<b>THSm2.2</b>	1.27658419	<.0001
<b>mCC</b>	4.19215507	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.267781	1.134103 1.401459
<b>THSm2.2</b>	1.276584	1.181027 1.372142
<b>mCC</b>	4.192155	4.063398 4.320912

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.924374	-3.108767	-2.739980
<b>2 3</b>	-2.915571	-3.075347	-2.755795

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.26778139	
<b>THSm2.2</b>	1.27658419	0.9158
<b>mCC</b>	4.19215507	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.267781	1.134103 1.401459
<b>THSm2.2</b>	1.276584	1.181027 1.372142
<b>mCC</b>	4.192155	4.063398 4.320912

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.008803	-0.155513	0.173118
<b>3 1</b>	2.924374	2.739980	3.108767

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	221.0435314	44.2087063	85.51	<.0001
Error	142	73.4151675	0.5170082		
Corrected Total	147	294.4586989			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.750678	32.95710	0.719033	2.181723

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.8272745	5.8272745	11.27	0.0010
SEX	1	3.0324046	3.0324046	5.87	0.0167
UCPDGR1	1	1.0891704	1.0891704	2.11	0.1489
TRTP	2	211.0946819	105.5473410	204.15	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.7106462	3.7106462	7.18	0.0083
SEX	1	1.4572740	1.4572740	2.82	0.0954
UCPDGR1	1	1.7182058	1.7182058	3.32	0.0704
TRTP	2	211.0946819	105.5473410	204.15	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.58278375	<.0001
<b>THSm2.2</b>	1.35852124	<.0001
<b>mCC</b>	4.10289939	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.582784	1.347380 1.818188
<b>THSm2.2</b>	1.358521	1.187736 1.529306
<b>mCC</b>	4.102899	3.879166 4.326633

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.520116	-2.842626	-2.197605
<b>2 3</b>	-2.744378	-3.025094	-2.463662

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.58278375	
<b>THSm2.2</b>	1.35852124	0.1295
<b>mCC</b>	4.10289939	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.582784	1.347380 1.818188
<b>THSm2.2</b>	1.358521	1.187736 1.529306
<b>mCC</b>	4.102899	3.879166 4.326633

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.224263	-0.514966	0.066441
<b>3 1</b>	2.520116	2.197605	2.842626

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	130.9638218	26.1927644	190.98	<.0001
Error	151	20.7099425	0.1371519		
Corrected Total	156	151.6737643			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.863457	26.49613	0.370340	1.397715

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.0576265	7.0576265	51.46	<.0001
SEX	1	0.1785152	0.1785152	1.30	0.2557
UCPDGR1	1	0.0431270	0.0431270	0.31	0.5758
TRTP	2	123.6845531	61.8422765	450.90	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.7696958	4.7696958	34.78	<.0001
SEX	1	0.0225540	0.0225540	0.16	0.6857
UCPDGR1	1	0.0257199	0.0257199	0.19	0.6656
TRTP	2	123.6845531	61.8422765	450.90	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.94470209	<.0001
<b>THSm2.2</b>	0.81718659	<.0001
<b>mCC</b>	2.86394177	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.944702	0.826504 1.062901
<b>THSm2.2</b>	0.817187	0.732844 0.901529
<b>mCC</b>	2.863942	2.750302 2.977581

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.919240	-2.082516	-1.755964
<b>2 3</b>	-2.046755	-2.187588	-1.905922

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.94470209	
<b>THSm2.2</b>	0.81718659	0.0843
<b>mCC</b>	2.86394177	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.944702	0.826504 1.062901
<b>THSm2.2</b>	0.817187	0.732844 0.901529
<b>mCC</b>	2.863942	2.750302 2.977581

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.127515	-0.272490	0.017459
<b>3 1</b>	1.919240	1.755964	2.082516

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	100.1307767	20.0261553	90.88	<.0001
Error	142	31.2898358	0.2203510		
Corrected Total	147	131.4206125			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.761911	31.25573	0.469416	1.501855

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.19812984	6.19812984	28.13	<.0001
SEX	1	0.73789427	0.73789427	3.35	0.0694
UCPDGR1	1	0.11527213	0.11527213	0.52	0.4707
TRTP	2	93.07948047	46.53974024	211.21	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.54557091	3.54557091	16.09	<.0001
SEX	1	0.40901749	0.40901749	1.86	0.1752
UCPDGR1	1	0.45313839	0.45313839	2.06	0.1538
TRTP	2	93.07948047	46.53974024	211.21	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.11660131	<.0001
<b>THSm2.2</b>	0.95124618	<.0001
<b>mCC</b>	2.77582388	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.116601	0.962728 1.270474
<b>THSm2.2</b>	0.951246	0.839887 1.062606
<b>mCC</b>	2.775824	2.629950 2.921697

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.659223	-1.870138	-1.448307
<b>2 3</b>	-1.824578	-2.007364	-1.641791

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.11660131	
<b>THSm2.2</b>	0.95124618	0.0870
<b>mCC</b>	2.77582388	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.116601	0.962728 1.270474
<b>THSm2.2</b>	0.951246	0.839887 1.062606
<b>mCC</b>	2.775824	2.629950 2.921697

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.165355	-0.355047	0.024337
<b>3 1</b>	1.659223	1.448307	1.870138

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 155

**Number of Observations Used** 153

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	37.29742835	7.45948567	32.04	<.0001
Error	147	34.22433119	0.23281858		
Corrected Total	152	71.52175954			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.521484	11.16814	0.482513	4.320441

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.36731464	15.36731464	66.01	<.0001
SEX	1	0.23446336	0.23446336	1.01	0.3173
UCPDGR1	1	0.02561729	0.02561729	0.11	0.7406
TRTP	2	21.67003306	10.83501653	46.54	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.84471691	11.84471691	50.88	<.0001
SEX	1	0.13382264	0.13382264	0.57	0.4496
UCPDGR1	1	0.02936147	0.02936147	0.13	0.7230
TRTP	2	21.67003306	10.83501653	46.54	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.10859829	<.0001
<b>THSm2.2</b>	4.09397807	<.0001
<b>mCC</b>	4.97086053	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.108598	3.955277 4.261919
<b>THSm2.2</b>	4.093978	3.984074 4.203882
<b>mCC</b>	4.970861	4.815295 5.126426

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.862262	-1.079983	-0.644542
<b>2 3</b>	-0.876882	-1.066469	-0.687296

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.10859829	
THSm2.2	4.09397807	0.8781
mCC	4.97086053	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.108598	3.955277 4.261919
THSm2.2	4.093978	3.984074 4.203882
mCC	4.970861	4.815295 5.126426

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.014620	-0.202600	0.173360
3 1	0.862262	0.644542	1.079983

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 147

**Number of Observations Used** 144

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	32.6688267	6.5337653	9.34	<.0001
Error	138	96.5183993	0.6994087		
Corrected Total	143	129.1872261			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.252880	18.54503	0.836307	4.509599

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.04627546	27.04627546	38.67	<.0001
SEX	1	0.00852319	0.00852319	0.01	0.9123
UCPDGR1	1	0.02853022	0.02853022	0.04	0.8402
TRTP	2	5.58549788	2.79274894	3.99	0.0206

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.45816285	24.45816285	34.97	<.0001
SEX	1	0.02361341	0.02361341	0.03	0.8545
UCPDGR1	1	0.02654725	0.02654725	0.04	0.8458
TRTP	2	5.58549788	2.79274894	3.99	0.0206

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.47989002	0.0703
<b>THSm2.2</b>	4.35608187	0.0056
<b>mCC</b>	4.83470303	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.479890	4.207106 4.752674
<b>THSm2.2</b>	4.356082	4.157642 4.554522
<b>mCC</b>	4.834703	4.561529 5.107877

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.354813	-0.739422	0.029795
<b>2 3</b>	-0.478621	-0.814952	-0.142290

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.47989002	
<b>THSm2.2</b>	4.35608187	0.4678
<b>mCC</b>	4.83470303	0.0703

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.479890	4.207106 4.752674
<b>THSm2.2</b>	4.356082	4.157642 4.554522
<b>mCC</b>	4.834703	4.561529 5.107877

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.123808	-0.460034	0.212418
<b>3 1</b>	0.354813	-0.029795	0.739422

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	127.1117571	25.4223514	198.75	<.0001
Error	151	19.3149254	0.1279134		
Corrected Total	156	146.4266825			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.868091	11.37293	0.357650	3.144746

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.21555332	28.21555332	220.58	<.0001
SEX	1	2.31091025	2.31091025	18.07	<.0001
UCPDGR1	1	0.00800900	0.00800900	0.06	0.8028
TRTP	2	96.57728451	48.28864226	377.51	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	19.85881559	19.85881559	155.25	<.0001
SEX	1	1.41295519	1.41295519	11.05	0.0011
UCPDGR1	1	0.11904968	0.11904968	0.93	0.3362
TRTP	2	96.57728451	48.28864226	377.51	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.64239802	<.0001
<b>THSm2.2</b>	2.66371764	<.0001
<b>mCC</b>	4.43009698	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.642398	2.528992 2.755804
<b>THSm2.2</b>	2.663718	2.582254 2.745181
<b>mCC</b>	4.430097	4.320268 4.539926

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.787699	-1.944978	-1.630420
<b>2 3</b>	-1.766379	-1.902362	-1.630397

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.64239802	
<b>THSm2.2</b>	2.66371764	0.7626
<b>mCC</b>	4.43009698	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.642398	2.528992 2.755804
<b>THSm2.2</b>	2.663718	2.582254 2.745181
<b>mCC</b>	4.430097	4.320268 4.539926

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.021320	-0.117883	0.160522
<b>3 1</b>	1.787699	1.630420	1.944978

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	188.2174818	37.6434964	83.72	<.0001
Error	142	63.8507104	0.4496529		
Corrected Total	147	252.0681922			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.746693	23.53403	0.670562	2.849327

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	22.5515440	22.5515440	50.15	<.0001
SEX	1	4.9842240	4.9842240	11.08	0.0011
UCPDGR1	1	1.0307602	1.0307602	2.29	0.1322
TRTP	2	159.6509535	79.8254768	177.53	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.2888916	14.2888916	31.78	<.0001
SEX	1	3.3482842	3.3482842	7.45	0.0072
UCPDGR1	1	1.8751230	1.8751230	4.17	0.0430
TRTP	2	159.6509535	79.8254768	177.53	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.24064714	<.0001
<b>THSm2.2</b>	2.16580529	<.0001
<b>mCC</b>	4.51471515	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.240647	2.021981 2.459313
<b>THSm2.2</b>	2.165805	2.006823 2.324788
<b>mCC</b>	4.514715	4.306135 4.723295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.274068	-2.574774	-1.973362
<b>2 3</b>	-2.348910	-2.610025	-2.087794

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.24064714	
<b>THSm2.2</b>	2.16580529	0.5839
<b>mCC</b>	4.51471515	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.240647	2.021981 2.459313
<b>THSm2.2</b>	2.165805	2.006823 2.324788
<b>mCC</b>	4.514715	4.306135 4.723295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.074842	-0.344355	0.194671
<b>3 1</b>	2.274068	1.973362	2.574774

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	44.42370185	8.88474037	60.00	<.0001
Error	151	22.36174782	0.14809105		
Corrected Total	156	66.78544967			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.665170	5.203945	0.384826	7.394890

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.20685048	27.20685048	183.72	<.0001
SEX	1	0.03649505	0.03649505	0.25	0.6203
UCPDGR1	1	0.13026274	0.13026274	0.88	0.3498
TRTP	2	17.05009358	8.52504679	57.57	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.01423124	27.01423124	182.42	<.0001
SEX	1	0.07568058	0.07568058	0.51	0.4758
UCPDGR1	1	0.05469189	0.05469189	0.37	0.5443
TRTP	2	17.05009358	8.52504679	57.57	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.21337944	<.0001
<b>THSm2.2</b>	7.19023137	<.0001
<b>mCC</b>	7.94295355	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.213379	7.091343 7.335416
<b>THSm2.2</b>	7.190231	7.102591 7.277872
<b>mCC</b>	7.942954	7.824875 8.061032

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.729574	-0.898764	-0.560385
<b>2 3</b>	-0.752722	-0.899035	-0.606410

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.21337944	
<b>THSm2.2</b>	7.19023137	0.7605
<b>mCC</b>	7.94295355	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.213379	7.091343 7.335416
<b>THSm2.2</b>	7.190231	7.102591 7.277872
<b>mCC</b>	7.942954	7.824875 8.061032

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.023148	-0.172916	0.126620
<b>3 1</b>	0.729574	0.560385	0.898764

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	47.30647388	9.46129478	40.38	<.0001
Error	142	33.27023233	0.23429741		
Corrected Total	147	80.57670621			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.587099	6.230258	0.484043	7.769225

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.86431196	28.86431196	123.20	<.0001
SEX	1	0.82859849	0.82859849	3.54	0.0621
UCPDGR1	1	0.02213739	0.02213739	0.09	0.7590
TRTP	2	17.59142606	8.79571303	37.54	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	30.25106455	30.25106455	129.11	<.0001
SEX	1	0.66095048	0.66095048	2.82	0.0952
UCPDGR1	1	0.08172020	0.08172020	0.35	0.5557
TRTP	2	17.59142606	8.79571303	37.54	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.52781268	<.0001
<b>THSm2.2</b>	7.55884451	<.0001
<b>mCC</b>	8.31874059	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.527813	7.369987 7.685639
<b>THSm2.2</b>	7.558845	7.443997 7.673692
<b>mCC</b>	8.318741	8.168334 8.469147

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.790928	-1.007945	-0.573911
<b>2 3</b>	-0.759896	-0.948350	-0.571442

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.52781268	
<b>THSm2.2</b>	7.55884451	0.7530
<b>mCC</b>	8.31874059	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.527813	7.369987 7.685639
<b>THSm2.2</b>	7.558845	7.443997 7.673692
<b>mCC</b>	8.318741	8.168334 8.469147

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.031032	-0.163565	0.225629
<b>3 1</b>	0.790928	0.573911	1.007945

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	65.64931120	13.12986224	66.86	<.0001
Error	151	29.65251433	0.19637427		
Corrected Total	156	95.30182553			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.688857	12.58594	0.443141	3.520925

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.19789112	7.19789112	36.65	<.0001
SEX	1	0.06651836	0.06651836	0.34	0.5614
UCPDGR1	1	0.06114173	0.06114173	0.31	0.5777
TRTP	2	58.32375999	29.16188000	148.50	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.83856112	5.83856112	29.73	<.0001
SEX	1	0.00486776	0.00486776	0.02	0.8751
UCPDGR1	1	0.00049956	0.00049956	0.00	0.9598
TRTP	2	58.32375999	29.16188000	148.50	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	3.11048378	<.0001
THSm2.2	3.17294949	<.0001
mCC	4.52887665	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	3.110484	2.969425 3.251542
THSm2.2	3.172949	3.071996 3.273903
mCC	4.528877	4.392905 4.664848

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.418393	-1.613623	-1.223163
2 3	-1.355927	-1.524430	-1.187425

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.11048378	
<b>THSm2.2</b>	3.17294949	0.4772
<b>mCC</b>	4.52887665	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.110484	2.969425 3.251542
<b>THSm2.2</b>	3.172949	3.071996 3.273903
<b>mCC</b>	4.528877	4.392905 4.664848

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.062466	-0.110736	0.235668
<b>3 1</b>	1.418393	1.223163	1.613623

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	44.1480483	8.8296097	21.39	<.0001
Error	142	58.6112808	0.4127555		
Corrected Total	147	102.7593292			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.429626	16.91630	0.642461	3.797878

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	10.51625397	10.51625397	25.48	<.0001
SEX	1	0.13783929	0.13783929	0.33	0.5643
UCPDGR1	1	0.77440848	0.77440848	1.88	0.1729
TRTP	2	32.71954659	16.35977330	39.64	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.29936098	8.29936098	20.11	<.0001
SEX	1	0.04639935	0.04639935	0.11	0.7379
UCPDGR1	1	1.11507046	1.11507046	2.70	0.1025
TRTP	2	32.71954659	16.35977330	39.64	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	3.53132894	<.0001
THSm2.2	3.49911669	<.0001
mCC	4.56153040	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	3.531329	3.321101	3.741556
THSm2.2	3.499117	3.346521	3.651713
mCC	4.561530	4.361878	4.761182

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.030201	-1.318622	-0.741781
2 3	-1.062414	-1.312750	-0.812077

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.53132894	
<b>THSm2.2</b>	3.49911669	0.8066
<b>mCC</b>	4.56153040	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.531329	3.321101 3.741556
<b>THSm2.2</b>	3.499117	3.346521 3.651713
<b>mCC</b>	4.561530	4.361878 4.761182

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.032212	-0.291824	0.227399
<b>3 1</b>	1.030201	0.741781	1.318622

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	29.44471977	5.88894395	41.74	<.0001
Error	151	21.30594267	0.14109896		
Corrected Total	156	50.75066244			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.580184	7.213921	0.375631	5.207035

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.61115626	3.61115626	25.59	<.0001
SEX	1	0.19905805	0.19905805	1.41	0.2368
UCPDGR1	1	0.05159165	0.05159165	0.37	0.5463
TRTP	2	25.58291381	12.79145690	90.66	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.46513903	2.46513903	17.47	<.0001
SEX	1	0.06148992	0.06148992	0.44	0.5102
UCPDGR1	1	0.00807847	0.00807847	0.06	0.8112
TRTP	2	25.58291381	12.79145690	90.66	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.92835565	<.0001
<b>THSm2.2</b>	4.97526910	<.0001
<b>mCC</b>	5.87133498	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.928356	4.809173 5.047538
<b>THSm2.2</b>	4.975269	4.889685 5.060854
<b>mCC</b>	5.871335	5.755866 5.986804

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.942979	-1.108141	-0.777818
<b>2 3</b>	-0.896066	-1.038918	-0.753214

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.92835565	
<b>THSm2.2</b>	4.97526910	0.5270
<b>mCC</b>	5.87133498	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.928356	4.809173 5.047538
<b>THSm2.2</b>	4.975269	4.889685 5.060854
<b>mCC</b>	5.871335	5.755866 5.986804

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.046913	-0.099279	0.193106
<b>3 1</b>	0.942979	0.777818	1.108141

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.93944464	2.78788893	12.76	<.0001
Error	142	31.02277693	0.21847026		
Corrected Total	147	44.96222157			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.310026	8.752213	0.467408	5.340455

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.18744369	1.18744369	5.44	0.0211
SEX	1	0.77167547	0.77167547	3.53	0.0622
UCPDGR1	1	0.14343429	0.14343429	0.66	0.4191
TRTP	2	11.83689120	5.91844560	27.09	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.18331898	2.18331898	9.99	0.0019
SEX	1	1.04566161	1.04566161	4.79	0.0303
UCPDGR1	1	0.22907867	0.22907867	1.05	0.3076
TRTP	2	11.83689120	5.91844560	27.09	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21121652	<.0001
<b>THSm2.2</b>	5.16545419	<.0001
<b>mCC</b>	5.81317626	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.211217	5.058621 5.363812
<b>THSm2.2</b>	5.165454	5.054639 5.276270
<b>mCC</b>	5.813176	5.667539 5.958813

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.601960	-0.811541	-0.392378
<b>2 3</b>	-0.647722	-0.829927	-0.465517

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.21121652	
THSm2.2	5.16545419	0.6311
mCC	5.81317626	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.211217	5.058621 5.363812
THSm2.2	5.165454	5.054639 5.276270
mCC	5.813176	5.667539 5.958813

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.045762	-0.233756	0.142231
3 1	0.601960	0.392378	0.811541

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.09326684	2.61865337	18.94	<.0001
Error	151	20.87252728	0.13822866		
Corrected Total	156	33.96579412			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.385484	4.611243	0.371791	8.062709

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.44613217	11.44613217	82.81	<.0001
SEX	1	0.19481311	0.19481311	1.41	0.2370
UCPDGR1	1	0.10932814	0.10932814	0.79	0.3752
TRTP	2	1.34299341	0.67149671	4.86	0.0090

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	10.38238350	10.38238350	75.11	<.0001
SEX	1	0.24193851	0.24193851	1.75	0.1878
UCPDGR1	1	0.13152051	0.13152051	0.95	0.3309
TRTP	2	1.34299341	0.67149671	4.86	0.0090

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.07953145	0.1205
<b>THSm2.2</b>	7.98715151	0.0022
<b>mCC</b>	8.21045715	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.079531	7.960855 8.198207
<b>THSm2.2</b>	7.987152	7.902504 8.071799
<b>mCC</b>	8.210457	8.095598 8.325317

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.130926	-0.296595	0.034744
<b>2 3</b>	-0.223306	-0.365229	-0.081383

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	8.07953145	
THSm2.2	7.98715151	0.2113
mCC	8.21045715	0.1205

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	8.079531	7.960855 8.198207
THSm2.2	7.987152	7.902504 8.071799
mCC	8.210457	8.095598 8.325317

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.092380	-0.237772	0.053012
3 1	0.130926	-0.034744	0.296595

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	24.28885232	4.85777046	13.99	<.0001
Error	142	49.29672736	0.34716005		
Corrected Total	147	73.58557968			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.330076	7.181694	0.589203	8.204233

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	23.23030211	23.23030211	66.92	<.0001
SEX	1	0.00050089	0.00050089	0.00	0.9698
UCPDGR1	1	0.04765369	0.04765369	0.14	0.7116
TRTP	2	1.01039563	0.50519782	1.46	0.2368

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	23.99626684	23.99626684	69.12	<.0001
SEX	1	0.00000099	0.00000099	0.00	0.9987
UCPDGR1	1	0.04054950	0.04054950	0.12	0.7330
TRTP	2	1.01039563	0.50519782	1.46	0.2368

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.30282586	0.1011
<b>THSm2.2</b>	8.22753157	0.2059
<b>mCC</b>	8.07958229	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.302826	8.109571 8.496081
<b>THSm2.2</b>	8.227532	8.087839 8.367224
<b>mCC</b>	8.079582	7.895369 8.263795

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.223244	-0.044138	0.490625
<b>2 3</b>	0.147949	-0.082203	0.378101

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	8.30282586	
THSm2.2	8.22753157	0.5324
mCC	8.07958229	0.1011

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	8.302826	8.109571 8.496081
THSm2.2	8.227532	8.087839 8.367224
mCC	8.079582	7.895369 8.263795

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.075294	-0.313093	0.162504
3 1	-0.223244	-0.490625	0.044138

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	404.7148144	80.9429629	417.12	<.0001
Error	151	29.3021578	0.1940540		
Corrected Total	156	434.0169722			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.932486	42.17765	0.440516	1.044429

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	31.4552502	31.4552502	162.10	<.0001
SEX	1	1.4392450	1.4392450	7.42	0.0072
UCPDGR1	1	0.0072750	0.0072750	0.04	0.8467
TRTP	2	371.8130442	185.9065221	958.01	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.2770440	14.2770440	73.57	<.0001
SEX	1	1.6161803	1.6161803	8.33	0.0045
UCPDGR1	1	0.0929168	0.0929168	0.48	0.4900
TRTP	2	371.8130442	185.9065221	958.01	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.64886460	<.0001
<b>THSm2.2</b>	1.94530895	0.3023
<b>mCC</b>	1.85752098	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.648865	-1.788757	-1.508972
<b>THSm2.2</b>	1.945309	1.845016	2.045602
<b>mCC</b>	1.857521	1.722212	1.992830

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-3.506386	-3.700056	-3.312715
<b>2 3</b>	0.087788	-0.079786	0.255362

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.64886460	
<b>THSm2.2</b>	1.94530895	<.0001
<b>mCC</b>	1.85752098	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.648865	-1.788757	-1.508972
<b>THSm2.2</b>	1.945309	1.845016	2.045602
<b>mCC</b>	1.857521	1.722212	1.992830

**Least Squares Means for Effect**

<b>TRTP</b>				
		<b>Difference</b>	<b>95% Confidence</b>	
		<b>Between</b>	<b>Limits for</b>	
<b>i</b>	<b>j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2</b>	<b>1</b>	3.594174	3.422576	3.765771
<b>3</b>	<b>1</b>	3.506386	3.312715	3.700056

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	263.3131670	52.6626334	42.14	<.0001
Error	142	177.4547391	1.2496813		
Corrected Total	147	440.7679062			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.597396	86.84379	1.117891	1.287244

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	43.0558238	43.0558238	34.45	<.0001
SEX	1	0.0070246	0.0070246	0.01	0.9403
UCPDGR1	1	0.8708710	0.8708710	0.70	0.4052
TRTP	2	219.3794477	109.6897238	87.77	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	23.1504890	23.1504890	18.53	<.0001
SEX	1	0.1874420	0.1874420	0.15	0.6991
UCPDGR1	1	0.9824440	0.9824440	0.79	0.3768
TRTP	2	219.3794477	109.6897238	87.77	<.0001

**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-0.82260569	<.0001
THSm2.2	2.02086268	0.7150
mCC	1.94030292	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-0.822606	-1.187747	-0.457465
THSm2.2	2.020863	1.755817	2.285908
mCC	1.940303	1.592750	2.287856

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-2.762909	-3.264207	-2.261610
2 3	0.080560	-0.354744	0.515863

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.4 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-0.82260569	
THSm2.2	2.02086268	<.0001
mCC	1.94030292	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-0.822606	-1.187747	-0.457465
THSm2.2	2.020863	1.755817	2.285908
mCC	1.940303	1.592750	2.287856

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	2.843468	2.393528	3.293409
3 1	2.762909	2.261610	3.264207

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



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**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Class Level Information		
Class	Levels	Values
TRTP	3	SA THSm2.2 mCC
SEX	2	F M
UCPDGR1	2	10-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	136.9370672	27.3874134	86.50	<.0001
Error	154	48.7607805	0.3166284		
Corrected Total	159	185.6978477			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.737419	11.35469	0.562697	4.955639

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.6408686	15.6408686	49.40	<.0001
SEX	1	0.8822616	0.8822616	2.79	0.0971
UCPDGR1	1	0.6401909	0.6401909	2.02	0.1571
TRTP	2	119.7737460	59.8868730	189.14	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.8662104	9.8662104	31.16	<.0001
SEX	1	1.4955650	1.4955650	4.72	0.0313
UCPDGR1	1	0.0701862	0.0701862	0.22	0.6384
TRTP	2	119.7737460	59.8868730	189.14	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.45349917	<.0001
<b>THSm2.2</b>	4.45027603	<.0001
<b>mCC</b>	6.42442153	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.453499	4.277385 4.629614
<b>THSm2.2</b>	4.450276	4.323633 4.576919
<b>mCC</b>	6.424422	6.251294 6.597549

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.970922	-2.217334	-1.724511
<b>2 3</b>	-1.974145	-2.187406	-1.760885

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.45349917	
<b>THSm2.2</b>	4.45027603	0.9766
<b>mCC</b>	6.42442153	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.453499	4.277385 4.629614
<b>THSm2.2</b>	4.450276	4.323633 4.576919
<b>mCC</b>	6.424422	6.251294 6.597549

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.003223	-0.219521	0.213075
<b>3 1</b>	1.970922	1.724511	2.217334

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	108.4541278	21.6908256	50.16	<.0001
Error	154	66.6003674	0.4324699		
Corrected Total	159	175.0544952			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.619545	12.17623	0.657624	5.400887

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	25.72691868	25.72691868	59.49	<.0001
SEX	1	0.07152490	0.07152490	0.17	0.6848
UCPDGR1	1	0.00513097	0.00513097	0.01	0.9134
TRTP	2	82.65055324	41.32527662	95.56	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	17.59735438	17.59735438	40.69	<.0001
SEX	1	0.00050880	0.00050880	0.00	0.9727
UCPDGR1	1	0.13843158	0.13843158	0.32	0.5724
TRTP	2	82.65055324	41.32527662	95.56	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95958769	<.0001
<b>THSm2.2</b>	4.97909177	<.0001
<b>mCC</b>	6.61143030	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.959588	4.753763 5.165413
<b>THSm2.2</b>	4.979092	4.831084 5.127100
<b>mCC</b>	6.611430	6.409096 6.813764

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.651843	-1.939824	-1.363861
<b>2 3</b>	-1.632339	-1.881576	-1.383101

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95958769	
<b>THSm2.2</b>	4.97909177	0.8791
<b>mCC</b>	6.61143030	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.959588	4.753763 5.165413
<b>THSm2.2</b>	4.979092	4.831084 5.127100
<b>mCC</b>	6.611430	6.409096 6.813764

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.019504	-0.233284	0.272292
<b>3 1</b>	1.651843	1.363861	1.939824

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	34.67455894	6.93491179	67.94	<.0001
Error	154	15.71961094	0.10207540		
Corrected Total	159	50.39416987			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.688067	5.530136	0.319492	5.777297

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.84274127	5.84274127	57.24	<.0001
SEX	1	0.00154616	0.00154616	0.02	0.9022
UCPDGR1	1	0.13670744	0.13670744	1.34	0.2490
TRTP	2	28.69356406	14.34678203	140.55	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.32169209	7.32169209	71.73	<.0001
SEX	1	0.00615820	0.00615820	0.06	0.8063
UCPDGR1	1	0.12217731	0.12217731	1.20	0.2756
TRTP	2	28.69356406	14.34678203	140.55	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21930268	<.0001
<b>THSm2.2</b>	5.72820686	<.0001
<b>mCC</b>	6.39797801	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.219303	5.119139 5.319466
<b>THSm2.2</b>	5.728207	5.656298 5.800116
<b>mCC</b>	6.397978	6.299957 6.495999

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.178675	-1.318441	-1.038910
<b>2 3</b>	-0.669771	-0.790657	-0.548885

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21930268	
<b>THSm2.2</b>	5.72820686	<.0001
<b>mCC</b>	6.39797801	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.219303	5.119139 5.319466
<b>THSm2.2</b>	5.728207	5.656298 5.800116
<b>mCC</b>	6.397978	6.299957 6.495999

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.508904	0.385995	0.631814
<b>3 1</b>	1.178675	1.038910	1.318441

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	22.74164282	4.54832856	35.28	<.0001
Error	154	19.85113401	0.12890347		
Corrected Total	159	42.59277684			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.533932	5.962817	0.359031	6.021169

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.19369753	2.19369753	17.02	<.0001
SEX	1	0.21017026	0.21017026	1.63	0.2036
UCPDGR1	1	0.02399577	0.02399577	0.19	0.6667
TRTP	2	20.31377927	10.15688964	78.79	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.45261997	2.45261997	19.03	<.0001
SEX	1	0.35056347	0.35056347	2.72	0.1012
UCPDGR1	1	0.03419689	0.03419689	0.27	0.6072
TRTP	2	20.31377927	10.15688964	78.79	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.60687509	<.0001
<b>THSm2.2</b>	5.94874511	<.0001
<b>mCC</b>	6.58039975	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.606875	5.494316 5.719434
<b>THSm2.2</b>	5.948745	5.867937 6.029554
<b>mCC</b>	6.580400	6.470248 6.690552

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.973525	-1.130587	-0.816462
<b>2 3</b>	-0.631655	-0.767501	-0.495809

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.60687509	
<b>THSm2.2</b>	5.94874511	<.0001
<b>mCC</b>	6.58039975	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.606875	5.494316 5.719434
<b>THSm2.2</b>	5.948745	5.867937 6.029554
<b>mCC</b>	6.580400	6.470248 6.690552

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.341870	0.203750	0.479990
<b>3 1</b>	0.973525	0.816462	1.130587

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	194.0571844	38.8114369	169.95	<.0001
Error	154	35.1685662	0.2283673		
Corrected Total	159	229.2257506			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.846577	8.936528	0.477878	5.347468

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.8058779	39.8058779	174.31	<.0001
SEX	1	0.0625802	0.0625802	0.27	0.6014
UCPDGR1	1	0.5651386	0.5651386	2.47	0.1177
TRTP	2	153.6235877	76.8117938	336.35	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	34.8117875	34.8117875	152.44	<.0001
SEX	1	0.3061835	0.3061835	1.34	0.2487
UCPDGR1	1	0.1114652	0.1114652	0.49	0.4858
TRTP	2	153.6235877	76.8117938	336.35	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.69297450	<.0001
<b>THSm2.2</b>	4.80688546	<.0001
<b>mCC</b>	6.99507889	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.692974	4.543452 4.842497
<b>THSm2.2</b>	4.806885	4.699321 4.914450
<b>mCC</b>	6.995079	6.848372 7.141785

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.302104	-2.510861	-2.093348
<b>2 3</b>	-2.188193	-2.369022	-2.007365

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.69297450	
<b>THSm2.2</b>	4.80688546	0.2223
<b>mCC</b>	6.99507889	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.692974	4.543452 4.842497
<b>THSm2.2</b>	4.806885	4.699321 4.914450
<b>mCC</b>	6.995079	6.848372 7.141785

**Least Squares Means for Effect**

<b>TRTP</b>		<b>Difference</b>		<b>95% Confidence</b>	
		<b>Between</b>		<b>Limits for</b>	
<b>i</b>	<b>j</b>	<b>Means LSMean(i)-LSMean(j)</b>		<b>Limits for</b>	
<b>2</b>	<b>1</b>	0.113911	-0.069734	0.297555	
<b>3</b>	<b>1</b>	2.302104	2.093348	2.510861	

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	165.4063853	33.0812771	70.44	<.0001
Error	154	72.3231073	0.4696306		
Corrected Total	159	237.7294926			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.695776	12.34364	0.685296	5.551814

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	40.6199055	40.6199055	86.49	<.0001
SEX	1	1.4998160	1.4998160	3.19	0.0759
UCPDGR1	1	0.0063172	0.0063172	0.01	0.9078
TRTP	2	123.2803466	61.6401733	131.25	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.5122920	32.5122920	69.23	<.0001
SEX	1	2.3714298	2.3714298	5.05	0.0261
UCPDGR1	1	0.0884208	0.0884208	0.19	0.6650
TRTP	2	123.2803466	61.6401733	131.25	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.01988511	<.0001
<b>THSm2.2</b>	5.06183185	<.0001
<b>mCC</b>	7.04425414	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.019885	4.805464	5.234307
<b>THSm2.2</b>	5.061832	4.907580	5.216084
<b>mCC</b>	7.044254	6.833871	7.254637

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.024369	-2.323734	-1.725004
<b>2 3</b>	-1.982422	-2.241737	-1.723107

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.01988511	
<b>THSm2.2</b>	5.06183185	0.7535
<b>mCC</b>	7.04425414	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.019885	4.805464	5.234307
<b>THSm2.2</b>	5.061832	4.907580	5.216084
<b>mCC</b>	7.044254	6.833871	7.254637

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.041947	-0.221407	0.305300
<b>3 1</b>	2.024369	1.725004	2.323734

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	21.44443120	4.28888624	147.98	<.0001
Error	154	4.46336637	0.02898290		
Corrected Total	159	25.90779757			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.827721	15.17043	0.170244	1.122207

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.33073653	1.33073653	45.91	<.0001
SEX	1	0.48613211	0.48613211	16.77	<.0001
UCPDGR1	1	0.01092781	0.01092781	0.38	0.5401
TRTP	2	19.61663475	9.80831738	338.42	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.96380138	0.96380138	33.25	<.0001
SEX	1	0.34886681	0.34886681	12.04	0.0007
UCPDGR1	1	0.00231808	0.00231808	0.08	0.7777
TRTP	2	19.61663475	9.80831738	338.42	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.90668646	<.0001
<b>THSm2.2</b>	0.90592760	<.0001
<b>mCC</b>	1.70280644	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	0.906686	0.853420	0.959953
<b>THSm2.2</b>	0.905928	0.867609	0.944246
<b>mCC</b>	1.702806	1.650565	1.755048

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.796120	-0.870480	-0.721760
<b>2 3</b>	-0.796879	-0.861308	-0.732450

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.90668646	
<b>THSm2.2</b>	0.90592760	0.9817
<b>mCC</b>	1.70280644	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	0.906686	0.853420	0.959953
<b>THSm2.2</b>	0.905928	0.867609	0.944246
<b>mCC</b>	1.702806	1.650565	1.755048

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.000759	-0.066188	0.064670
<b>3 1</b>	0.796120	0.721760	0.870480

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.67855517	2.73571103	75.62	<.0001
Error	154	5.57120909	0.03617668		
Corrected Total	159	19.24976426			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.710583	15.04751	0.190202	1.264007

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.44374166	0.44374166	12.27	0.0006
SEX	1	0.05255229	0.05255229	1.45	0.2300
UCPDGR1	1	0.01589336	0.01589336	0.44	0.5084
TRTP	2	13.16636785	6.58318393	181.97	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.24803106	0.24803106	6.86	0.0097
SEX	1	0.01764580	0.01764580	0.49	0.4860
UCPDGR1	1	0.06287633	0.06287633	1.74	0.1893
TRTP	2	13.16636785	6.58318393	181.97	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.08973881	<.0001
<b>THSm2.2</b>	1.09335530	<.0001
<b>mCC</b>	1.74475959	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.089739	1.030228 1.149250
<b>THSm2.2</b>	1.093355	1.050544 1.136166
<b>mCC</b>	1.744760	1.686394 1.803125

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.655021	-0.738098	-0.571944
<b>2 3</b>	-0.651404	-0.723386	-0.579422

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.08973881	
<b>THSm2.2</b>	1.09335530	0.9223
<b>mCC</b>	1.74475959	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.089739	1.030228	1.149250
<b>THSm2.2</b>	1.093355	1.050544	1.136166
<b>mCC</b>	1.744760	1.686394	1.803125

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.003616	-0.069483	0.076716
<b>3 1</b>	0.655021	0.571944	0.738098

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	98.0155386	19.6031077	281.86	<.0001
Error	154	10.7107446	0.0695503		
Corrected Total	159	108.7262832			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.901489	6.946221	0.263724	3.796653

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	72.56380657	72.56380657	1043.33	<.0001
SEX	1	0.72526232	0.72526232	10.43	0.0015
UCPDGR1	1	0.09694477	0.09694477	1.39	0.2396
TRTP	2	24.62952492	12.31476246	177.06	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	61.19037679	61.19037679	879.80	<.0001
SEX	1	0.49203887	0.49203887	7.07	0.0086
UCPDGR1	1	0.21756634	0.21756634	3.13	0.0789
TRTP	2	24.62952492	12.31476246	177.06	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43973920	<.0001
<b>THSm2.2</b>	3.62172417	<.0001
<b>mCC</b>	4.43661217	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	3.439739	3.357208	3.522271
<b>THSm2.2</b>	3.621724	3.562367	3.681082
<b>mCC</b>	4.436612	4.355701	4.517523

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.996873	-1.112095	-0.881651
<b>2 3</b>	-0.814888	-0.914657	-0.715119

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43973920	
<b>THSm2.2</b>	3.62172417	0.0005
<b>mCC</b>	4.43661217	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	3.439739	3.357208	3.522271
<b>THSm2.2</b>	3.621724	3.562367	3.681082
<b>mCC</b>	4.436612	4.355701	4.517523

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.181985	0.080611	0.283359
<b>3 1</b>	0.996873	0.881651	1.112095

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	116.6208493	23.3241699	40.77	<.0001
Error	154	88.0959368	0.5720515		
Corrected Total	159	204.7167861			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.569669	22.19984	0.756341	3.406966

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	37.10419848	37.10419848	64.86	<.0001
SEX	1	0.83332544	0.83332544	1.46	0.2293
UCPDGR1	1	1.32951707	1.32951707	2.32	0.1294
TRTP	2	77.35380831	38.67690416	67.61	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.75381704	26.75381704	46.77	<.0001
SEX	1	0.38579806	0.38579806	0.67	0.4128
UCPDGR1	1	2.02714303	2.02714303	3.54	0.0617
TRTP	2	77.35380831	38.67690416	67.61	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.73028567	<.0001
<b>THSm2.2</b>	3.14186011	<.0001
<b>mCC</b>	4.53779042	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.730286	2.493591 2.966981
<b>THSm2.2</b>	3.141860	2.971627 3.312093
<b>mCC</b>	4.537790	4.305743 4.769838

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.807505	-2.137954	-1.477055
<b>2 3</b>	-1.395930	-1.682062	-1.109799

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.73028567	
<b>THSm2.2</b>	3.14186011	0.0058
<b>mCC</b>	4.53779042	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.730286	2.493591 2.966981
<b>THSm2.2</b>	3.141860	2.971627 3.312093
<b>mCC</b>	4.537790	4.305743 4.769838

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.411574	0.120840	0.702309
<b>3 1</b>	1.807505	1.477055	2.137954

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5488.641244	1097.728249	63.21	<.0001
Error	154	2674.352506	17.365925		
Corrected Total	159	8162.993750			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.672381	69.38180	4.167244	6.006250

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	374.736850	374.736850	21.58	<.0001
SEX	1	69.328824	69.328824	3.99	0.0475
UCPDGR1	1	2.080897	2.080897	0.12	0.7297
TRTP	2	5042.494674	2521.247337	145.18	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	371.836113	371.836113	21.41	<.0001
SEX	1	31.073763	31.073763	1.79	0.1830
UCPDGR1	1	7.495141	7.495141	0.43	0.5122
TRTP	2	5042.494674	2521.247337	145.18	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.1152574	<.0001
THSm2.2	2.3306911	<.0001
mCC	15.3618153	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	3.115257	1.808471	4.422043
THSm2.2	2.330691	1.391958	3.269424
mCC	15.361815	14.081221	16.642410

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-12.246558	-14.066636	-10.426480
2 3	-13.031124	-14.611810	-11.450438

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.1152574	
THSm2.2	2.3306911	0.3362
mCC	15.3618153	<.0001

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	3.115257	1.808471	4.422043
THSm2.2	2.330691	1.391958	3.269424
mCC	15.361815	14.081221	16.642410

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.784566	-2.391077 0.821945
3	1	12.246558	10.426480 14.066636

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	2825.417422	565.083484	40.59	<.0001
Error	154	2144.082578	13.922614		
Corrected Total	159	4969.500000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.568552	76.53953	3.731302	4.875000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	67.260628	67.260628	4.83	0.0294
SEX	1	0.156052	0.156052	0.01	0.9158
UCPDGR1	1	32.516321	32.516321	2.34	0.1285
TRTP	2	2725.484421	1362.742210	97.88	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	14.725978	14.725978	1.06	0.3054
SEX	1	0.625025	0.625025	0.04	0.8325
UCPDGR1	1	58.809047	58.809047	4.22	0.0415
TRTP	2	2725.484421	1362.742210	97.88	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.5020765	<.0001
THSm2.2	2.4198518	<.0001
mCC	11.8500274	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	2.502077	1.334631	3.669522
THSm2.2	2.419852	1.577261	3.262443
mCC	11.850027	10.704933	12.995122

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-9.347951	-10.977811	-7.718091
2 3	-9.430176	-10.845383	-8.014968

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.5020765	
THSm2.2	2.4198518	0.9101
mCC	11.8500274	<.0001

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	2.502077	1.334631	3.669522
THSm2.2	2.419852	1.577261	3.262443
mCC	11.850027	10.704933	12.995122

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.082225	-1.518086	1.353637
3 1	9.347951	7.718091	10.977811

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	51.96549336	10.39309867	99.65	<.0001
Error	154	16.06087418	0.10429139		
Corrected Total	159	68.02636754			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.763902	7.929370	0.322942	4.072729

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	22.24594967	22.24594967	213.31	<.0001
SEX	1	1.41797748	1.41797748	13.60	0.0003
UCPDGR1	1	0.08241847	0.08241847	0.79	0.3754
TRTP	2	28.21914773	14.10957387	135.29	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	13.16212137	13.16212137	126.21	<.0001
SEX	1	2.03428195	2.03428195	19.51	<.0001
UCPDGR1	1	0.00000123	0.00000123	0.00	0.9973
TRTP	2	28.21914773	14.10957387	135.29	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.78445132	<.0001
<b>THSm2.2</b>	3.86779836	<.0001
<b>mCC</b>	4.79604240	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.784451	3.683392 3.885510
<b>THSm2.2</b>	3.867798	3.795104 3.940493
<b>mCC</b>	4.796042	4.696362 4.895723

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.011591	-1.153233	-0.869949
<b>2 3</b>	-0.928244	-1.050800	-0.805688

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.78445132	
<b>THSm2.2</b>	3.86779836	0.1867
<b>mCC</b>	4.79604240	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.784451	3.683392 3.885510
<b>THSm2.2</b>	3.867798	3.795104 3.940493
<b>mCC</b>	4.796042	4.696362 4.895723

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.083347	-0.040800	0.207494
<b>3 1</b>	1.011591	0.869949	1.153233

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	22.48061958	4.49612392	28.83	<.0001
Error	154	24.01760131	0.15595845		
Corrected Total	159	46.49822089			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.483473	8.514337	0.394916	4.638244

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.64648451	8.64648451	55.44	<.0001
SEX	1	1.20709058	1.20709058	7.74	0.0061
UCPDGR1	1	0.00010981	0.00010981	0.00	0.9789
TRTP	2	12.62693469	6.31346734	40.48	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.46066713	4.46066713	28.60	<.0001
SEX	1	1.60627237	1.60627237	10.30	0.0016
UCPDGR1	1	0.03291361	0.03291361	0.21	0.6466
TRTP	2	12.62693469	6.31346734	40.48	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.49668339	<.0001
<b>THSm2.2</b>	4.48126139	<.0001
<b>mCC</b>	5.12806074	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.496683	4.373101 4.620265
<b>THSm2.2</b>	4.481261	4.392366 4.570157
<b>mCC</b>	5.128061	5.006164 5.249957

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.631377	-0.804587	-0.458168
<b>2 3</b>	-0.646799	-0.796670	-0.496929

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.49668339	
THSm2.2	4.48126139	0.8412
mCC	5.12806074	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.496683	4.373101 4.620265
THSm2.2	4.481261	4.392366 4.570157
mCC	5.128061	5.006164 5.249957

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.015422	-0.167237	0.136393
3 1	0.631377	0.458168	0.804587

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	302.0213992	60.4042798	184.37	<.0001
Error	154	50.4549431	0.3276295		
Corrected Total	159	352.4763423			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.856856	-3443.214	0.572389	-0.016624

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	62.2134678	62.2134678	189.89	<.0001
SEX	1	0.3446190	0.3446190	1.05	0.3067
UCPDGR1	1	0.4874577	0.4874577	1.49	0.2244
TRTP	2	238.9758547	119.4879274	364.70	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	64.3878232	64.3878232	196.53	<.0001
SEX	1	1.3354796	1.3354796	4.08	0.0452
UCPDGR1	1	0.7493164	0.7493164	2.29	0.1325
TRTP	2	238.9758547	119.4879274	364.70	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.90684837	<.0001
<b>THSm2.2</b>	0.18567085	<.0001
<b>mCC</b>	1.47410946	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.906848	-2.085942	-1.727755
<b>THSm2.2</b>	0.185671	0.056830	0.314512
<b>mCC</b>	1.474109	1.298461	1.649758

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-3.380958	-3.631026	-3.130890
<b>2 3</b>	-1.288439	-1.505077	-1.071800

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.90684837	
<b>THSm2.2</b>	0.18567085	<.0001
<b>mCC</b>	1.47410946	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.906848	-2.085942	-1.727755
<b>THSm2.2</b>	0.185671	0.056830	0.314512
<b>mCC</b>	1.474109	1.298461	1.649758

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	2.092519	1.872554	2.312484
<b>3 1</b>	3.380958	3.130890	3.631026

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	213.8546549	42.7709310	53.68	<.0001
Error	154	122.7010387	0.7967600		
Corrected Total	159	336.5556937			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.635421	391.2276	0.892614	0.228157

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	59.0695108	59.0695108	74.14	<.0001
SEX	1	1.5773582	1.5773582	1.98	0.1614
UCPDGR1	1	0.8544963	0.8544963	1.07	0.3020
TRTP	2	152.3532896	76.1766448	95.61	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	60.4674375	60.4674375	75.89	<.0001
SEX	1	2.9908557	2.9908557	3.75	0.0545
UCPDGR1	1	1.1664700	1.1664700	1.46	0.2281
TRTP	2	152.3532896	76.1766448	95.61	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.20336729	<.0001
<b>THSm2.2</b>	0.31797094	<.0001
<b>mCC</b>	1.52050335	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.203367	-1.482655	-0.924080
<b>THSm2.2</b>	0.317971	0.117050	0.518892
<b>mCC</b>	1.520503	1.246588	1.794418

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.723871	-3.113840	-2.333902
<b>2 3</b>	-1.202532	-1.540370	-0.864695

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.20336729	
<b>THSm2.2</b>	0.31797094	<.0001
<b>mCC</b>	1.52050335	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.203367	-1.482655	-0.924080
<b>THSm2.2</b>	0.317971	0.117050	0.518892
<b>mCC</b>	1.520503	1.246588	1.794418

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	1.521338	1.178313	1.864363
<b>3 1</b>	2.723871	2.333902	3.113840

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	79.5183257	15.9036651	82.72	<.0001
Error	154	29.6075740	0.1922570		
Corrected Total	159	109.1258998			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.728684	38.88437	0.438471	1.127628

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.92609652	4.92609652	25.62	<.0001
SEX	1	0.84009413	0.84009413	4.37	0.0382
UCPDGR1	1	0.12370088	0.12370088	0.64	0.4237
TRTP	2	73.62843418	36.81421709	191.48	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.99046504	4.99046504	25.96	<.0001
SEX	1	1.30783317	1.30783317	6.80	0.0100
UCPDGR1	1	0.30985923	0.30985923	1.61	0.2062
TRTP	2	73.62843418	36.81421709	191.48	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.82842960	<.0001
<b>THSm2.2</b>	0.69450697	<.0001
<b>mCC</b>	2.27799234	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.828430	0.690785 0.966074
<b>THSm2.2</b>	0.694507	0.595545 0.793469
<b>mCC</b>	2.277992	2.143486 2.412499

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.449563	-1.641373	-1.257752
<b>2 3</b>	-1.583485	-1.749540	-1.417431

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.82842960	
<b>THSm2.2</b>	0.69450697	0.1207
<b>mCC</b>	2.27799234	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.828430	0.690785 0.966074
<b>THSm2.2</b>	0.694507	0.595545 0.793469
<b>mCC</b>	2.277992	2.143486 2.412499

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.133923	-0.303451	0.035606
<b>3 1</b>	1.449563	1.257752	1.641373

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	70.7009523	14.1401905	45.37	<.0001
Error	154	47.9959957	0.3116623		
Corrected Total	159	118.6969480			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.595643	47.23031	0.558267	1.182011

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.34651054	1.34651054	4.32	0.0393
SEX	1	0.14468866	0.14468866	0.46	0.4967
UCPDGR1	1	0.71537321	0.71537321	2.30	0.1318
TRTP	2	68.49437987	34.24718994	109.89	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.11567585	1.11567585	3.58	0.0604
SEX	1	0.39773245	0.39773245	1.28	0.2604
UCPDGR1	1	1.09509553	1.09509553	3.51	0.0628
TRTP	2	68.49437987	34.24718994	109.89	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.86828823	<.0001
<b>THSm2.2</b>	0.77091202	<.0001
<b>mCC</b>	2.28944179	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.868288	0.693037 1.043539
<b>THSm2.2</b>	0.770912	0.644912 0.896912
<b>mCC</b>	2.289442	2.118186 2.460698

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.421154	-1.665370	-1.176938
<b>2 3</b>	-1.518530	-1.729953	-1.307107

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.86828823	
<b>THSm2.2</b>	0.77091202	0.3742
<b>mCC</b>	2.28944179	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.868288	0.693037 1.043539
<b>THSm2.2</b>	0.770912	0.644912 0.896912
<b>mCC</b>	2.289442	2.118186 2.460698

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.097376	-0.313222	0.118470
<b>3 1</b>	1.421154	1.176938	1.665370

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	254.4283838	50.8856768	251.69	<.0001
Error	154	31.1352227	0.2021768		
Corrected Total	159	285.5636064			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.890969	23.75482	0.449641	1.892840

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.5073898	4.5073898	22.29	<.0001
SEX	1	0.1570473	0.1570473	0.78	0.3795
UCPDGR1	1	0.0030477	0.0030477	0.02	0.9024
TRTP	2	249.7608989	124.8804495	617.68	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.3634995	5.3634995	26.53	<.0001
SEX	1	0.6321926	0.6321926	3.13	0.0790
UCPDGR1	1	0.0758784	0.0758784	0.38	0.5410
TRTP	2	249.7608989	124.8804495	617.68	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.12168663	<.0001
<b>THSm2.2</b>	1.17603837	<.0001
<b>mCC</b>	3.99930704	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.121687	0.980727 1.262646
<b>THSm2.2</b>	1.176038	1.074495 1.277582
<b>mCC</b>	3.999307	3.861372 4.137242

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.877620	-3.074164	-2.681076
<b>2 3</b>	-2.823269	-2.993616	-2.652921

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.12168663	
<b>THSm2.2</b>	1.17603837	0.5373
<b>mCC</b>	3.99930704	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.121687	0.980727 1.262646
<b>THSm2.2</b>	1.176038	1.074495 1.277582
<b>mCC</b>	3.999307	3.861372 4.137242

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.054352	-0.119298	0.228002
<b>3 1</b>	2.877620	2.681076	3.074164

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	221.6966632	44.3393326	79.08	<.0001
Error	154	86.3486174	0.5607053		
Corrected Total	159	308.0452806			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.719689	36.17276	0.748803	2.070073

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.0178861	1.0178861	1.82	0.1798
SEX	1	0.4146879	0.4146879	0.74	0.3911
UCPDGR1	1	0.3137673	0.3137673	0.56	0.4556
TRTP	2	219.9503220	109.9751610	196.14	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.3403177	1.3403177	2.39	0.1241
SEX	1	1.0611319	1.0611319	1.89	0.1709
UCPDGR1	1	0.7127625	0.7127625	1.27	0.2613
TRTP	2	219.9503220	109.9751610	196.14	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.49698205	<.0001
<b>THSm2.2</b>	1.33049905	<.0001
<b>mCC</b>	4.05002381	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.496982	1.262237 1.731727
<b>THSm2.2</b>	1.330499	1.161395 1.499603
<b>mCC</b>	4.050024	3.820315 4.279732

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.553042	-2.880353	-2.225730
<b>2 3</b>	-2.719525	-3.003211	-2.435839

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.49698205	
<b>THSm2.2</b>	1.33049905	0.2572
<b>mCC</b>	4.05002381	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.496982	1.262237 1.731727
<b>THSm2.2</b>	1.330499	1.161395 1.499603
<b>mCC</b>	4.050024	3.820315 4.279732

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.166483	-0.455669	0.122703
<b>3 1</b>	2.553042	2.225730	2.880353

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	124.9821987	24.9964397	192.00	<.0001
Error	154	20.0496640	0.1301926		
Corrected Total	159	145.0318627			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.861757	29.55871	0.360822	1.220697

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.0233238	7.0233238	53.95	<.0001
SEX	1	1.0758465	1.0758465	8.26	0.0046
UCPDGR1	1	0.1374615	0.1374615	1.06	0.3058
TRTP	2	116.7455668	58.3727834	448.36	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.5500841	5.5500841	42.63	<.0001
SEX	1	1.6737447	1.6737447	12.86	0.0005
UCPDGR1	1	0.0000004	0.0000004	0.00	0.9986
TRTP	2	116.7455668	58.3727834	448.36	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.76516023	<.0001
<b>THSm2.2</b>	0.70640718	<.0001
<b>mCC</b>	2.66894066	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	0.765160	0.651974	0.878347
<b>THSm2.2</b>	0.706407	0.625083	0.787731
<b>mCC</b>	2.668941	2.558192	2.779689

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.903780	-2.061815	-1.745746
<b>2 3</b>	-1.962533	-2.099034	-1.826033

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.76516023	
<b>THSm2.2</b>	0.70640718	0.4058
<b>mCC</b>	2.66894066	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.765160	0.651974 0.878347
<b>THSm2.2</b>	0.706407	0.625083 0.787731
<b>mCC</b>	2.668941	2.558192 2.779689

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.058753	-0.197977	0.080471
<b>3 1</b>	1.903780	1.745746	2.061815

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	104.5763259	20.9152652	96.35	<.0001
Error	154	33.4296016	0.2170753		
Corrected Total	159	138.0059275			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.757767	33.83311	0.465913	1.377093

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.8647432	1.8647432	8.59	0.0039
SEX	1	1.4480694	1.4480694	6.67	0.0107
UCPDGR1	1	0.0001893	0.0001893	0.00	0.9765
TRTP	2	101.2633240	50.6316620	233.24	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.1226703	1.1226703	5.17	0.0243
SEX	1	2.1281075	2.1281075	9.80	0.0021
UCPDGR1	1	0.1084297	0.1084297	0.50	0.4808
TRTP	2	101.2633240	50.6316620	233.24	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.97808487	<.0001
<b>THSm2.2</b>	0.89227178	<.0001
<b>mCC</b>	2.72948330	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.978085	0.831932 1.124237
<b>THSm2.2</b>	0.892272	0.787261 0.997282
<b>mCC</b>	2.729483	2.586479 2.872488

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.751398	-1.955461	-1.547336
<b>2 3</b>	-1.837212	-2.013468	-1.660955

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.97808487	
<b>THSm2.2</b>	0.89227178	0.3472
<b>mCC</b>	2.72948330	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.978085	0.831932 1.124237
<b>THSm2.2</b>	0.892272	0.787261 0.997282
<b>mCC</b>	2.729483	2.586479 2.872488

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.085813	-0.265586	0.093960
<b>3 1</b>	1.751398	1.547336	1.955461

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 158

**Number of Observations Used** 156

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	35.92451076	7.18490215	31.11	<.0001
Error	150	34.64041043	0.23093607		
Corrected Total	155	70.56492118			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.509099	11.58094	0.480558	4.149562

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.70030749	15.70030749	67.99	<.0001
SEX	1	0.81757542	0.81757542	3.54	0.0618
UCPDGR1	1	0.12972689	0.12972689	0.56	0.4547
TRTP	2	19.27690095	9.63845048	41.74	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	13.70586766	13.70586766	59.35	<.0001
SEX	1	1.05916407	1.05916407	4.59	0.0338
UCPDGR1	1	0.13677297	0.13677297	0.59	0.4428
TRTP	2	19.27690095	9.63845048	41.74	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.94850531	<.0001
<b>THSm2.2</b>	3.96870790	<.0001
<b>mCC</b>	4.78206366	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.948505	3.798018 4.098992
<b>THSm2.2</b>	3.968708	3.860508 4.076908
<b>mCC</b>	4.782064	4.626999 4.937128

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.833558	-1.049227	-0.617890
<b>2 3</b>	-0.813356	-1.001370	-0.625342

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.94850531	
<b>THSm2.2</b>	3.96870790	0.8293
<b>mCC</b>	4.78206366	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.948505	3.798018 4.098992
<b>THSm2.2</b>	3.968708	3.860508 4.076908
<b>mCC</b>	4.782064	4.626999 4.937128

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.020203	-0.164620	0.205025
<b>3 1</b>	0.833558	0.617890	1.049227

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 159

**Number of Observations Used** 156

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	38.3990563	7.6798113	9.96	<.0001
Error	150	115.6021018	0.7706807		
Corrected Total	155	154.0011581			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.249343	19.76566	0.877884	4.441461

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	29.68470937	29.68470937	38.52	<.0001
SEX	1	2.89027403	2.89027403	3.75	0.0547
UCPDGR1	1	0.26001912	0.26001912	0.34	0.5622
TRTP	2	5.56405380	2.78202690	3.61	0.0294

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.78102230	27.78102230	36.05	<.0001
SEX	1	3.02102513	3.02102513	3.92	0.0495
UCPDGR1	1	0.26499500	0.26499500	0.34	0.5585
TRTP	2	5.56405380	2.78202690	3.61	0.0294

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.37896121	0.0389
<b>THSm2.2</b>	4.34286810	0.0103
<b>mCC</b>	4.79440536	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.378961	4.104051 4.653871
<b>THSm2.2</b>	4.342868	4.145208 4.540529
<b>mCC</b>	4.794405	4.511134 5.077677

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.415444	-0.809428	-0.021460
<b>2 3</b>	-0.451537	-0.795001	-0.108073

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.37896121	
THSm2.2	4.34286810	0.8330
mCC	4.79440536	0.0389

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.378961	4.104051 4.653871
THSm2.2	4.342868	4.145208 4.540529
mCC	4.794405	4.511134 5.077677

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.036093	-0.373728	0.301542
3 1	0.415444	0.021460	0.809428

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	118.3945989	23.6789198	208.21	<.0001
Error	154	17.5139856	0.1137272		
Corrected Total	159	135.9085846			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.871134	11.37806	0.337235	2.963902

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.10190493	27.10190493	238.31	<.0001
SEX	1	0.57710204	0.57710204	5.07	0.0257
UCPDGR1	1	0.01854762	0.01854762	0.16	0.6869
TRTP	2	90.69704436	45.34852218	398.75	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	25.87401872	25.87401872	227.51	<.0001
SEX	1	0.25800871	0.25800871	2.27	0.1341
UCPDGR1	1	0.01425384	0.01425384	0.13	0.7238
TRTP	2	90.69704436	45.34852218	398.75	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.45016037	<.0001
<b>THSm2.2</b>	2.53963486	<.0001
<b>mCC</b>	4.21970043	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.450160	2.344595 2.555726
<b>THSm2.2</b>	2.539635	2.463732 2.615538
<b>mCC</b>	4.219700	4.116248 4.323153

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.769540	-1.916852	-1.622228
<b>2 3</b>	-1.680066	-1.807649	-1.552482

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.45016037	
<b>THSm2.2</b>	2.53963486	0.1748
<b>mCC</b>	4.21970043	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.450160	2.344595 2.555726
<b>THSm2.2</b>	2.539635	2.463732 2.615538
<b>mCC</b>	4.219700	4.116248 4.323153

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.089474	-0.040187	0.219136
<b>3 1</b>	1.769540	1.622228	1.916852

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	179.5322237	35.9064447	71.86	<.0001
Error	154	76.9494404	0.4996717		
Corrected Total	159	256.4816641			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.699981	25.89945	0.706875	2.729303

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.0952897	11.0952897	22.21	<.0001
SEX	1	0.7584359	0.7584359	1.52	0.2198
UCPDGR1	1	0.1738867	0.1738867	0.35	0.5561
TRTP	2	167.5046115	83.7523057	167.61	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.6815814	9.6815814	19.38	<.0001
SEX	1	0.2638757	0.2638757	0.53	0.4685
UCPDGR1	1	0.6054814	0.6054814	1.21	0.2727
TRTP	2	167.5046115	83.7523057	167.61	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.14558037	<.0001
<b>THSm2.2</b>	2.10014730	<.0001
<b>mCC</b>	4.44225048	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.145580	1.924305 2.366856
<b>THSm2.2</b>	2.100147	1.941048 2.259247
<b>mCC</b>	4.442250	4.225404 4.659097

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.296670	-2.605450	-1.987890
<b>2 3</b>	-2.342103	-2.609529	-2.074677

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.14558037	
<b>THSm2.2</b>	2.10014730	0.7417
<b>mCC</b>	4.44225048	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.145580	1.924305 2.366856
<b>THSm2.2</b>	2.100147	1.941048 2.259247
<b>mCC</b>	4.442250	4.225404 4.659097

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.045433	-0.317216	0.226350
<b>3 1</b>	2.296670	1.987890	2.605450

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	61.95346711	12.39069342	107.32	<.0001
Error	154	17.78064320	0.11545872		
Corrected Total	159	79.73411030			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.777001	4.711581	0.339792	7.211850

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	46.07707743	46.07707743	399.08	<.0001
SEX	1	0.80611940	0.80611940	6.98	0.0091
UCPDGR1	1	0.20423012	0.20423012	1.77	0.1855
TRTP	2	14.86604016	7.43302008	64.38	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	34.33519968	34.33519968	297.38	<.0001
SEX	1	0.90464186	0.90464186	7.84	0.0058
UCPDGR1	1	0.11744201	0.11744201	1.02	0.3148
TRTP	2	14.86604016	7.43302008	64.38	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.02610209	<.0001
<b>THSm2.2</b>	7.04879956	<.0001
<b>mCC</b>	7.73405830	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.026102	6.919676 7.132528
<b>THSm2.2</b>	7.048800	6.972259 7.125340
<b>mCC</b>	7.734058	7.629745 7.838371

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.707956	-0.856363	-0.559550
<b>2 3</b>	-0.685259	-0.813805	-0.556713

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.02610209	
<b>THSm2.2</b>	7.04879956	0.7318
<b>mCC</b>	7.73405830	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.026102	6.919676 7.132528
<b>THSm2.2</b>	7.048800	6.972259 7.125340
<b>mCC</b>	7.734058	7.629745 7.838371

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.022697	-0.107894	0.153289
<b>3 1</b>	0.707956	0.559550	0.856363

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	59.10408065	11.82081613	48.98	<.0001
Error	154	37.16674300	0.24134249		
Corrected Total	159	96.27082365			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.613936	6.434504	0.491266	7.634873

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	38.06575585	38.06575585	157.73	<.0001
SEX	1	0.48634300	0.48634300	2.02	0.1578
UCPDGR1	1	0.07897378	0.07897378	0.33	0.5681
TRTP	2	20.47300802	10.23650401	42.41	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.75466859	28.75466859	119.14	<.0001
SEX	1	0.61599143	0.61599143	2.55	0.1122
UCPDGR1	1	0.02379632	0.02379632	0.10	0.7539
TRTP	2	20.47300802	10.23650401	42.41	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.39857985	<.0001
<b>THSm2.2</b>	7.44817752	<.0001
<b>mCC</b>	8.24364951	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.398580	7.244711 7.552449
<b>THSm2.2</b>	7.448178	7.337517 7.558838
<b>mCC</b>	8.243650	8.092836 8.394463

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.845070	-1.059633	-0.630506
<b>2 3</b>	-0.795472	-0.981322	-0.609622

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.39857985	
<b>THSm2.2</b>	7.44817752	0.6045
<b>mCC</b>	8.24364951	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.398580	7.244711 7.552449
<b>THSm2.2</b>	7.448178	7.337517 7.558838
<b>mCC</b>	8.243650	8.092836 8.394463

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.049598	-0.139209	0.238404
<b>3 1</b>	0.845070	0.630506	1.059633

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	67.31175908	13.46235182	76.74	<.0001
Error	154	27.01603669	0.17542881		
Corrected Total	159	94.32779577			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.713594	12.57359	0.418842	3.331126

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.51662606	9.51662606	54.25	<.0001
SEX	1	2.29721739	2.29721739	13.09	0.0004
UCPDGR1	1	0.15318751	0.15318751	0.87	0.3515
TRTP	2	55.34472813	27.67236406	157.74	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.02747162	7.02747162	40.06	<.0001
SEX	1	2.92189372	2.92189372	16.66	<.0001
UCPDGR1	1	0.01478034	0.01478034	0.08	0.7720
TRTP	2	55.34472813	27.67236406	157.74	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.93719332	<.0001
<b>THSm2.2</b>	3.03328737	<.0001
<b>mCC</b>	4.33633054	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.937193	2.805946 3.068440
<b>THSm2.2</b>	3.033287	2.938895 3.127680
<b>mCC</b>	4.336331	4.207728 4.464933

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.399137	-1.582512	-1.215762
<b>2 3</b>	-1.303043	-1.461492	-1.144594

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.93719332	
<b>THSm2.2</b>	3.03328737	0.2414
<b>mCC</b>	4.33633054	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.937193	2.805946 3.068440
<b>THSm2.2</b>	3.033287	2.938895 3.127680
<b>mCC</b>	4.336331	4.207728 4.464933

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.096094	-0.065322	0.257510
<b>3 1</b>	1.399137	1.215762	1.582512

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	53.8234412	10.7646882	28.78	<.0001
Error	154	57.6034691	0.3740485		
Corrected Total	159	111.4269103			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.483038	16.72666	0.611595	3.656408

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	13.46733578	13.46733578	36.00	<.0001
SEX	1	2.59972626	2.59972626	6.95	0.0092
UCPDGR1	1	0.11824138	0.11824138	0.32	0.5748
TRTP	2	37.63813781	18.81906890	50.31	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.58912598	9.58912598	25.64	<.0001
SEX	1	3.29406696	3.29406696	8.81	0.0035
UCPDGR1	1	0.31597702	0.31597702	0.84	0.3595
TRTP	2	37.63813781	18.81906890	50.31	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.38998715	<.0001
<b>THSm2.2</b>	3.39146563	<.0001
<b>mCC</b>	4.49462483	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.389987	3.198340 3.581635
<b>THSm2.2</b>	3.391466	3.253634 3.529297
<b>mCC</b>	4.494625	4.306838 4.682411

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.104638	-1.372403	-0.836873
<b>2 3</b>	-1.103159	-1.334527	-0.871791

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.38998715	
<b>THSm2.2</b>	3.39146563	0.9901
<b>mCC</b>	4.49462483	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.389987	3.198340 3.581635
<b>THSm2.2</b>	3.391466	3.253634 3.529297
<b>mCC</b>	4.494625	4.306838 4.682411

**Least Squares Means for Effect**

<b>TRTP</b>		<b>Difference</b>		<b>95% Confidence</b>	
<b>i j</b>		<b>Between Means</b>		<b>Limits for</b>	
<b>i j</b>		<b>LSMean(i)-LSMean(j)</b>			
<b>2</b>	<b>1</b>	0.001478	-0.234222	0.237179	
<b>3</b>	<b>1</b>	1.104638	0.836873	1.372403	

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	26.97984042	5.39596808	44.59	<.0001
Error	154	18.63801519	0.12102607		
Corrected Total	159	45.61785561			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.591432	6.919369	0.347888	5.027742

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.75188324	1.75188324	14.48	0.0002
SEX	1	1.98735676	1.98735676	16.42	<.0001
UCPDGR1	1	0.06063870	0.06063870	0.50	0.4801
TRTP	2	23.17996172	11.58998086	95.76	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.34013731	2.34013731	19.34	<.0001
SEX	1	2.34969873	2.34969873	19.41	<.0001
UCPDGR1	1	0.01314721	0.01314721	0.11	0.7422
TRTP	2	23.17996172	11.58998086	95.76	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.76121726	<.0001
<b>THSm2.2</b>	4.84961902	<.0001
<b>mCC</b>	5.68149075	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.761217	4.652372 4.870063
<b>THSm2.2</b>	4.849619	4.771316 4.927922
<b>mCC</b>	5.681491	5.574771 5.788211

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.920273	-1.072213	-0.768334
<b>2 3</b>	-0.831872	-0.963478	-0.700265

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.76121726	
<b>THSm2.2</b>	4.84961902	0.1934
<b>mCC</b>	5.68149075	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.761217	4.652372 4.870063
<b>THSm2.2</b>	4.849619	4.771316 4.927922
<b>mCC</b>	5.681491	5.574771 5.788211

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.088402	-0.045291	0.222094
<b>3 1</b>	0.920273	0.768334	1.072213

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	28.19836335	5.63967267	31.79	<.0001
Error	154	27.31703322	0.17738333		
Corrected Total	159	55.51539657			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.507938	8.085377	0.421169	5.209021

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.05446860	0.05446860	0.31	0.5803
SEX	1	12.38080558	12.38080558	69.80	<.0001
UCPDGR1	1	0.01926927	0.01926927	0.11	0.7422
TRTP	2	15.74381991	7.87190995	44.38	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.49185875	0.49185875	2.77	0.0979
SEX	1	13.10141690	13.10141690	73.86	<.0001
UCPDGR1	1	0.06333733	0.06333733	0.36	0.5510
TRTP	2	15.74381991	7.87190995	44.38	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.07346613	<.0001
<b>THSm2.2</b>	5.06324074	<.0001
<b>mCC</b>	5.78007927	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.073466	4.941693 5.205239
<b>THSm2.2</b>	5.063241	4.968443 5.158038
<b>mCC</b>	5.780079	5.650879 5.909279

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.706613	-0.890558	-0.522668
<b>2 3</b>	-0.716839	-0.876168	-0.557509

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.07346613	
<b>THSm2.2</b>	5.06324074	0.9008
<b>mCC</b>	5.78007927	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.073466	4.941693 5.205239
<b>THSm2.2</b>	5.063241	4.968443 5.158038
<b>mCC</b>	5.780079	5.650879 5.909279

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.010225	-0.172080	0.151629
<b>3 1</b>	0.706613	0.522668	0.890558

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	24.67212718	4.93442544	54.75	<.0001
Error	154	13.87951112	0.09012670		
Corrected Total	159	38.55163831			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.639976	3.812272	0.300211	7.874861

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	22.36165275	22.36165275	248.11	<.0001
SEX	1	1.51818076	1.51818076	16.84	<.0001
UCPDGR1	1	0.11080105	0.11080105	1.23	0.2693
TRTP	2	0.68149263	0.34074631	3.78	0.0250

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	12.44097461	12.44097461	138.04	<.0001
SEX	1	1.65756080	1.65756080	18.39	<.0001
UCPDGR1	1	0.12711481	0.12711481	1.41	0.2368
TRTP	2	0.68149263	0.34074631	3.78	0.0250

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.90370301	0.1877
<b>THSm2.2</b>	7.83490894	0.0070
<b>mCC</b>	7.99325740	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.903703	7.809326 7.998081
<b>THSm2.2</b>	7.834909	7.767272 7.902546
<b>mCC</b>	7.993257	7.899616 8.086899

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.089554	-0.223254	0.044145
<b>2 3</b>	-0.158348	-0.272763	-0.043934

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.90370301	
<b>THSm2.2</b>	7.83490894	0.2433
<b>mCC</b>	7.99325740	0.1877

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.903703	7.809326 7.998081
<b>THSm2.2</b>	7.834909	7.767272 7.902546
<b>mCC</b>	7.993257	7.899616 8.086899

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.068794	-0.184814	0.047226
<b>3 1</b>	0.089554	-0.044145	0.223254

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	31.79648638	6.35929728	17.98	<.0001
Error	154	54.46386809	0.35366148		
Corrected Total	159	86.26035447			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.368611	7.336910	0.594694	8.105517

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	30.21592855	30.21592855	85.44	<.0001
SEX	1	0.91959875	0.91959875	2.60	0.1089
UCPDGR1	1	0.00117431	0.00117431	0.00	0.9541
TRTP	2	0.65978477	0.32989238	0.93	0.3957

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	20.80214314	20.80214314	58.82	<.0001
SEX	1	0.73699744	0.73699744	2.08	0.1509
UCPDGR1	1	0.00026079	0.00026079	0.00	0.9784
TRTP	2	0.65978477	0.32989238	0.93	0.3957

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	8.19276171	0.1872
THSm2.2	8.13336917	0.3044
mCC	8.01514169	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	8.192762	8.005807 8.379716
THSm2.2	8.133369	7.999386 8.267352
mCC	8.015142	7.829645 8.200638

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	0.177620	-0.087228	0.442469
2 3	0.118227	-0.108419	0.344874

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	8.19276171	
THSm2.2	8.13336917	0.6104
mCC	8.01514169	0.1872

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	8.192762	8.005807 8.379716
THSm2.2	8.133369	7.999386 8.267352
mCC	8.015142	7.829645 8.200638

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.059393	-0.289218	0.170433
3 1	-0.177620	-0.442469	0.087228

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	396.0439557	79.2087911	351.72	<.0001
Error	154	34.6811814	0.2252025		
Corrected Total	159	430.7251372			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.919482	54.22694	0.474555	0.875128

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.0783300	26.0783300	115.80	<.0001
SEX	1	0.2548880	0.2548880	1.13	0.2891
UCPDGR1	1	0.0250275	0.0250275	0.11	0.7393
TRTP	2	369.6857103	184.8428551	820.79	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	17.6853874	17.6853874	78.53	<.0001
SEX	1	0.0002095	0.0002095	0.00	0.9757
UCPDGR1	1	0.0019887	0.0019887	0.01	0.9253
TRTP	2	369.6857103	184.8428551	820.79	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.75814237	<.0001
THSm2.2	1.80359011	0.1131
mCC	1.65875887	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.758142	-1.906671	-1.609614
THSm2.2	1.803590	1.696752	1.910428
mCC	1.658759	1.513183	1.804335

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-3.416901	-3.624196	-3.209607
2 3	0.144831	-0.034716	0.324378

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.75814237	
<b>THSm2.2</b>	1.80359011	<.0001
<b>mCC</b>	1.65875887	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.758142	-1.906671	-1.609614
<b>THSm2.2</b>	1.803590	1.696752	1.910428
<b>mCC</b>	1.658759	1.513183	1.804335

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	3.561732	3.379246	3.744219
<b>3 1</b>	3.416901	3.209607	3.624196

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	263.6820584	52.7364117	41.18	<.0001
Error	154	197.2253387	1.2806840		
Corrected Total	159	460.9073971			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.572093	95.45026	1.131673	1.185616

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.2092956	32.2092956	25.15	<.0001
SEX	1	0.6188006	0.6188006	0.48	0.4880
UCPDGR1	1	0.1283498	0.1283498	0.10	0.7520
TRTP	2	230.7256124	115.3628062	90.08	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	23.5019448	23.5019448	18.35	<.0001
SEX	1	1.4312675	1.4312675	1.12	0.2921
UCPDGR1	1	0.2802790	0.2802790	0.22	0.6406
TRTP	2	230.7256124	115.3628062	90.08	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-0.87959756	<.0001
THSm2.2	1.90491324	0.9087
mCC	1.88001257	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-0.879598	-1.233793	-0.525402
THSm2.2	1.904913	1.650136	2.159690
mCC	1.880013	1.532858	2.227167

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-2.759610	-3.253946	-2.265275
2 3	0.024901	-0.403266	0.453067

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-0.87959756	
<b>THSm2.2</b>	1.90491324	<.0001
<b>mCC</b>	1.88001257	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-0.879598	-1.233793	-0.525402
<b>THSm2.2</b>	1.904913	1.650136	2.159690
<b>mCC</b>	1.880013	1.532858	2.227167

**Least Squares Means for Effect**

		<b>TRTP</b>		
		<b>Difference</b>	<b>95% Confidence</b>	
		<b>Between</b>	<b>Limits for</b>	
<b>i</b>	<b>j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2</b>	<b>1</b>	2.784511	2.349335	3.219686
<b>3</b>	<b>1</b>	2.759610	2.265275	3.253946

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	140.9134830	28.1826966	82.30	<.0001
Error	154	52.7326347	0.3424197		
Corrected Total	159	193.6461177			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.727686	11.39450	0.585166	5.135518

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.3156894	14.3156894	41.81	<.0001
SEX	1	0.6444405	0.6444405	1.88	0.1721
UCPDGR1	1	0.4249248	0.4249248	1.24	0.2670
TRTP	2	125.5284283	62.7642141	183.30	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.8487064	8.8487064	25.84	<.0001
SEX	1	0.3822668	0.3822668	1.12	0.2924
UCPDGR1	1	0.0210466	0.0210466	0.06	0.8045
TRTP	2	125.5284283	62.7642141	183.30	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.62721785	<.0001
<b>THSm2.2</b>	4.58263196	<.0001
<b>mCC</b>	6.61555173	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.627218	4.444006 4.810430
<b>THSm2.2</b>	4.582632	4.450914 4.714350
<b>mCC</b>	6.615552	6.435821 6.795283

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.988334	-2.244394	-1.732274
<b>2 3</b>	-2.032920	-2.254568	-1.811271

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.62721785	
<b>THSm2.2</b>	4.58263196	0.6959
<b>mCC</b>	6.61555173	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.627218	4.444006 4.810430
<b>THSm2.2</b>	4.582632	4.450914 4.714350
<b>mCC</b>	6.615552	6.435821 6.795283

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.044586	-0.269509	0.180337
<b>3 1</b>	1.988334	1.732274	2.244394

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	117.0967585	23.4193517	56.21	<.0001
Error	154	64.1601075	0.4166241		
Corrected Total	159	181.2568660			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.646027	11.70074	0.645464	5.516441

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	33.11371901	33.11371901	79.48	<.0001
SEX	1	4.92694105	4.92694105	11.83	0.0008
UCPDGR1	1	0.04138160	0.04138160	0.10	0.7531
TRTP	2	79.01471687	39.50735844	94.83	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	20.51047317	20.51047317	49.23	<.0001
SEX	1	4.22530290	4.22530290	10.14	0.0018
UCPDGR1	1	0.36514221	0.36514221	0.88	0.3506
TRTP	2	79.01471687	39.50735844	94.83	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.06313584	<.0001
<b>THSm2.2</b>	5.07911856	<.0001
<b>mCC</b>	6.67493497	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.063136	4.861045 5.265227
<b>THSm2.2</b>	5.079119	4.933828 5.224409
<b>mCC</b>	6.674935	6.476684 6.873186

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.611799	-1.894245	-1.329353
<b>2 3</b>	-1.595816	-1.840304	-1.351328

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.06313584	
<b>THSm2.2</b>	5.07911856	0.8989
<b>mCC</b>	6.67493497	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.063136	4.861045 5.265227
<b>THSm2.2</b>	5.079119	4.933828 5.224409
<b>mCC</b>	6.674935	6.476684 6.873186

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.015983	-0.232118	0.264083
<b>3 1</b>	1.611799	1.329353	1.894245

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	39.10075540	7.82015108	62.86	<.0001
Error	154	19.15796802	0.12440239		
Corrected Total	159	58.25872342			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.671157	5.920711	0.352707	5.957177

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.73440066	6.73440066	54.13	<.0001
SEX	1	2.70268285	2.70268285	21.73	<.0001
UCPDGR1	1	0.03892149	0.03892149	0.31	0.5767
TRTP	2	29.62475039	14.81237520	119.07	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.25969447	5.25969447	42.28	<.0001
SEX	1	1.79948701	1.79948701	14.47	0.0002
UCPDGR1	1	0.04035181	0.04035181	0.32	0.5698
TRTP	2	29.62475039	14.81237520	119.07	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.40159474	<.0001
<b>THSm2.2</b>	5.86445801	<.0001
<b>mCC</b>	6.59058648	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.401595	5.291158 5.512031
<b>THSm2.2</b>	5.864458	5.785042 5.943874
<b>mCC</b>	6.590586	6.482165 6.699008

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.188992	-1.343448	-1.034536
<b>2 3</b>	-0.726128	-0.859638	-0.592619

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.40159474	
<b>THSm2.2</b>	5.86445801	<.0001
<b>mCC</b>	6.59058648	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.401595	5.291158 5.512031
<b>THSm2.2</b>	5.864458	5.785042 5.943874
<b>mCC</b>	6.590586	6.482165 6.699008

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.462863	0.327159	0.598567
<b>3 1</b>	1.188992	1.034536	1.343448

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	28.92711360	5.78542272	36.57	<.0001
Error	154	24.36176644	0.15819329		
Corrected Total	159	53.28888004			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.542836	6.481231	0.397735	6.136723

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.90269401	6.90269401	43.63	<.0001
SEX	1	3.12242465	3.12242465	19.74	<.0001
UCPDGR1	1	0.10832145	0.10832145	0.68	0.4092
TRTP	2	18.79367349	9.39683675	59.40	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.17971112	4.17971112	26.42	<.0001
SEX	1	2.39540676	2.39540676	15.14	0.0001
UCPDGR1	1	0.10874879	0.10874879	0.69	0.4083
TRTP	2	18.79367349	9.39683675	59.40	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.70420864	<.0001
<b>THSm2.2</b>	6.04731254	<.0001
<b>mCC</b>	6.64524510	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.704209	5.579673 5.828744
<b>THSm2.2</b>	6.047313	5.957758 6.136867
<b>mCC</b>	6.645245	6.522982 6.767509

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.941036	-1.115211	-0.766862
<b>2 3</b>	-0.597933	-0.748487	-0.447378

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.70420864	
THSm2.2	6.04731254	<.0001
mCC	6.64524510	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.704209	5.579673 5.828744
THSm2.2	6.047313	5.957758 6.136867
mCC	6.645245	6.522982 6.767509

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.343104	0.190075	0.496133
3 1	0.941036	0.766862	1.115211

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	197.8523546	39.5704709	146.80	<.0001
Error	154	41.5102597	0.2695471		
Corrected Total	159	239.3626143			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.826580	9.392920	0.519179	5.527347

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	36.4864887	36.4864887	135.36	<.0001
SEX	1	0.9577075	0.9577075	3.55	0.0613
UCPDGR1	1	0.3893819	0.3893819	1.44	0.2312
TRTP	2	160.0187765	80.0093883	296.83	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.2480141	32.2480141	119.64	<.0001
SEX	1	0.4591957	0.4591957	1.70	0.1938
UCPDGR1	1	0.0521160	0.0521160	0.19	0.6608
TRTP	2	160.0187765	80.0093883	296.83	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.87370018	<.0001
<b>THSm2.2</b>	4.94580362	<.0001
<b>mCC</b>	7.19516072	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.873700	4.711262 5.036139
<b>THSm2.2</b>	4.945804	4.828954 5.062654
<b>mCC</b>	7.195161	7.035881 7.354441

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.321461	-2.548227	-2.094694
<b>2 3</b>	-2.249357	-2.445783	-2.052932

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.87370018	
<b>THSm2.2</b>	4.94580362	0.4764
<b>mCC</b>	7.19516072	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.873700	4.711262 5.036139
<b>THSm2.2</b>	4.945804	4.828954 5.062654
<b>mCC</b>	7.195161	7.035881 7.354441

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.072103	-0.127413	0.271620
<b>3 1</b>	2.321461	2.094694	2.548227

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	164.6143292	32.9228658	75.35	<.0001
Error	154	67.2834713	0.4369057		
Corrected Total	159	231.8978005			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.709857	11.66306	0.660988	5.667368

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	45.2662719	45.2662719	103.61	<.0001
SEX	1	0.2383357	0.2383357	0.55	0.4613
UCPDGR1	1	0.0142981	0.0142981	0.03	0.8567
TRTP	2	119.0954235	59.5477118	136.29	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	38.4961453	38.4961453	88.11	<.0001
SEX	1	0.0436800	0.0436800	0.10	0.7523
UCPDGR1	1	0.2131531	0.2131531	0.49	0.4859
TRTP	2	119.0954235	59.5477118	136.29	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.12554936	<.0001
<b>THSm2.2</b>	5.16510524	<.0001
<b>mCC</b>	7.11380901	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.125549	4.918742 5.332357
<b>THSm2.2</b>	5.165105	5.016339 5.313872
<b>mCC</b>	7.113809	6.911023 7.316595

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.988260	-2.276966	-1.699554
<b>2 3</b>	-1.948704	-2.198781	-1.698626

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.12554936	
<b>THSm2.2</b>	5.16510524	0.7588
<b>mCC</b>	7.11380901	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.125549	4.918742 5.332357
<b>THSm2.2</b>	5.165105	5.016339 5.313872
<b>mCC</b>	7.113809	6.911023 7.316595

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.039556	-0.214456	0.293568
<b>3 1</b>	1.988260	1.699554	2.276966

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	100.9702322	20.1940464	210.16	<.0001
Error	154	14.7976743	0.0960888		
Corrected Total	159	115.7679065			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.872178	7.795282	0.309982	3.976532

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	72.22983633	72.22983633	751.70	<.0001
SEX	1	1.23467726	1.23467726	12.85	0.0005
UCPDGR1	1	0.18496001	0.18496001	1.92	0.1673
TRTP	2	27.32075858	13.66037929	142.16	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	47.72490891	47.72490891	496.68	<.0001
SEX	1	1.02379499	1.02379499	10.65	0.0014
UCPDGR1	1	0.33162289	0.33162289	3.45	0.0651
TRTP	2	27.32075858	13.66037929	142.16	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.62682466	<.0001
<b>THSm2.2</b>	3.77024200	<.0001
<b>mCC</b>	4.65211971	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.626825	3.529758 3.723891
<b>THSm2.2</b>	3.770242	3.700465 3.840019
<b>mCC</b>	4.652120	4.557014 4.747226

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.025295	-1.160698	-0.889892
<b>2 3</b>	-0.881878	-0.999145	-0.764611

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.62682466	
<b>THSm2.2</b>	3.77024200	0.0186
<b>mCC</b>	4.65211971	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.626825	3.529758 3.723891
<b>THSm2.2</b>	3.770242	3.700465 3.840019
<b>mCC</b>	4.652120	4.557014 4.747226

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.143417	0.024263	0.262571
<b>3 1</b>	1.025295	0.889892	1.160698

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	129.4549692	25.8909938	44.12	<.0001
Error	154	90.3779860	0.5868700		
Corrected Total	159	219.8329552			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.588879	21.74791	0.766074	3.522519

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	48.44317076	48.44317076	82.54	<.0001
SEX	1	4.56993492	4.56993492	7.79	0.0059
UCPDGR1	1	2.06469539	2.06469539	3.52	0.0626
TRTP	2	74.37716812	37.18858406	63.37	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	23.29603338	23.29603338	39.70	<.0001
SEX	1	4.06797005	4.06797005	6.93	0.0093
UCPDGR1	1	2.79431154	2.79431154	4.76	0.0306
TRTP	2	74.37716812	37.18858406	63.37	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.83796356	<.0001
<b>THSm2.2</b>	3.24754310	<.0001
<b>mCC</b>	4.61263961	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.837964	2.598079 3.077848
<b>THSm2.2</b>	3.247543	3.075100 3.419986
<b>mCC</b>	4.612640	4.377599 4.847680

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.774676	-2.109304	-1.440048
<b>2 3</b>	-1.365097	-1.654904	-1.075289

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.83796356	
<b>THSm2.2</b>	3.24754310	0.0067
<b>mCC</b>	4.61263961	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.837964	2.598079 3.077848
<b>THSm2.2</b>	3.247543	3.075100 3.419986
<b>mCC</b>	4.612640	4.377599 4.847680

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.409580	0.115108	0.704051
<b>3 1</b>	1.774676	1.440048	2.109304

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	43.54808524	8.70961705	54.68	<.0001
Error	154	24.53065961	0.15929000		
Corrected Total	159	68.07874485			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.639672	9.385098	0.399112	4.252609

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.41110214	11.41110214	71.64	<.0001
SEX	1	0.17025046	0.17025046	1.07	0.3028
UCPDGR1	1	0.00026964	0.00026964	0.00	0.9672
TRTP	2	31.96646300	15.98323150	100.34	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.10081550	8.10081550	50.86	<.0001
SEX	1	0.25062987	0.25062987	1.57	0.2116
UCPDGR1	1	0.07994570	0.07994570	0.50	0.4797
TRTP	2	31.96646300	15.98323150	100.34	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.96192252	<.0001
<b>THSm2.2</b>	4.00828608	<.0001
<b>mCC</b>	5.01085571	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.961923	3.836935 4.086910
<b>THSm2.2</b>	4.008286	3.918437 4.098135
<b>mCC</b>	5.010856	4.888234 5.133478

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.048933	-1.223670	-0.874196
<b>2 3</b>	-1.002570	-1.153813	-0.851326

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.96192252	
<b>THSm2.2</b>	4.00828608	0.5514
<b>mCC</b>	5.01085571	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.961923	3.836935 4.086910
<b>THSm2.2</b>	4.008286	3.918437 4.098135
<b>mCC</b>	5.010856	4.888234 5.133478

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.046364	-0.107048	0.199775
<b>3 1</b>	1.048933	0.874196	1.223670

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	18.11054167	3.62210833	17.91	<.0001
Error	154	31.15330866	0.20229421		
Corrected Total	159	49.26385034			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.367623	9.461304	0.449771	4.753798

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.59617197	5.59617197	27.66	<.0001
SEX	1	0.76120718	0.76120718	3.76	0.0542
UCPDGR1	1	0.19865695	0.19865695	0.98	0.3233
TRTP	2	11.55450558	5.77725279	28.56	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.99739366	2.99739366	14.82	0.0002
SEX	1	0.66967788	0.66967788	3.31	0.0708
UCPDGR1	1	0.36712760	0.36712760	1.81	0.1799
TRTP	2	11.55450558	5.77725279	28.56	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.59618072	<.0001
<b>THSm2.2</b>	4.58012503	<.0001
<b>mCC</b>	5.19806426	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.596181	4.455328 4.737033
<b>THSm2.2</b>	4.580125	4.478872 4.681378
<b>mCC</b>	5.198064	5.059878 5.336251

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.601884	-0.798800	-0.404967
<b>2 3</b>	-0.617939	-0.788380	-0.447498

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.59618072	
<b>THSm2.2</b>	4.58012503	0.8547
<b>mCC</b>	5.19806426	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.596181	4.455328 4.737033
<b>THSm2.2</b>	4.580125	4.478872 4.681378
<b>mCC</b>	5.198064	5.059878 5.336251

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.016056	-0.188940	0.156828
<b>3 1</b>	0.601884	0.404967	0.798800

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	303.4079829	60.6815966	170.22	<.0001
Error	154	54.8990545	0.3564874		
Corrected Total	159	358.3070374			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.846782	365.7235	0.597066	0.163256

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	62.4245384	62.4245384	175.11	<.0001
SEX	1	0.3552805	0.3552805	1.00	0.3197
UCPDGR1	1	0.5434065	0.5434065	1.52	0.2188
TRTP	2	240.0847574	120.0423787	336.74	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	60.6614062	60.6614062	170.16	<.0001
SEX	1	0.0006552	0.0006552	0.00	0.9659
UCPDGR1	1	0.7946337	0.7946337	2.23	0.1375
TRTP	2	240.0847574	120.0423787	336.74	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.72502515	<.0001
<b>THSm2.2</b>	0.32589273	<.0001
<b>mCC</b>	1.67444091	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.725025	-1.911832	-1.538218
<b>THSm2.2</b>	0.325893	0.191515	0.460271
<b>mCC</b>	1.674441	1.491084	1.857798

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-3.399466	-3.660368	-3.138564
<b>2 3</b>	-1.348548	-1.574581	-1.122515

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.72502515	
<b>THSm2.2</b>	0.32589273	<.0001
<b>mCC</b>	1.67444091	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.725025	-1.911832	-1.538218
<b>THSm2.2</b>	0.325893	0.191515	0.460271
<b>mCC</b>	1.674441	1.491084	1.857798

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	2.050918	1.821471	2.280365
<b>3 1</b>	3.399466	3.138564	3.660368

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	216.8291342	43.3658268	56.09	<.0001
Error	154	119.0652531	0.7731510		
Corrected Total	159	335.8943873			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.645528	256.2925	0.879290	0.343081

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	66.1137408	66.1137408	85.51	<.0001
SEX	1	0.1801228	0.1801228	0.23	0.6300
UCPDGR1	1	1.4002782	1.4002782	1.81	0.1804
TRTP	2	149.1349924	74.5674962	96.45	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	62.3268431	62.3268431	80.61	<.0001
SEX	1	0.0067607	0.0067607	0.01	0.9256
UCPDGR1	1	1.7371410	1.7371410	2.25	0.1359
TRTP	2	149.1349924	74.5674962	96.45	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.09944321	<.0001
<b>THSm2.2</b>	0.42202514	<.0001
<b>mCC</b>	1.59435477	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.099443	-1.374551	-0.824336
<b>THSm2.2</b>	0.422025	0.224129	0.619921
<b>mCC</b>	1.594355	1.324327	1.864383

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.693798	-3.078024	-2.309571
<b>2 3</b>	-1.172330	-1.505205	-0.839454

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.09944321	
<b>THSm2.2</b>	0.42202514	<.0001
<b>mCC</b>	1.59435477	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.099443	-1.374551	-0.824336
<b>THSm2.2</b>	0.422025	0.224129	0.619921
<b>mCC</b>	1.594355	1.324327	1.864383

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	1.521468	1.183564	1.859372
<b>3 1</b>	2.693798	2.309571	3.078024

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	84.0836755	16.8167351	77.85	<.0001
Error	154	33.2649458	0.2160061		
Corrected Total	159	117.3486213			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.716529	35.54584	0.464765	1.307508

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.28605991	5.28605991	24.47	<.0001
SEX	1	0.69884449	0.69884449	3.24	0.0740
UCPDGR1	1	0.23893164	0.23893164	1.11	0.2946
TRTP	2	77.85983946	38.92991973	180.23	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.66590690	3.66590690	16.97	<.0001
SEX	1	0.28791383	0.28791383	1.33	0.2501
UCPDGR1	1	0.42440196	0.42440196	1.96	0.1630
TRTP	2	77.85983946	38.92991973	180.23	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.00107781	<.0001
<b>THSm2.2</b>	0.83072960	<.0001
<b>mCC</b>	2.46827397	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.001078	0.854835 1.147321
<b>THSm2.2</b>	0.830730	0.726047 0.935412
<b>mCC</b>	2.468274	2.325531 2.611017

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.467196	-1.670362	-1.264030
<b>2 3</b>	-1.637544	-1.813714	-1.461375

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.00107781	
<b>THSm2.2</b>	0.83072960	0.0630
<b>mCC</b>	2.46827397	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.001078	0.854835 1.147321
<b>THSm2.2</b>	0.830730	0.726047 0.935412
<b>mCC</b>	2.468274	2.325531 2.611017

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.170348	-0.350032	0.009336
<b>3 1</b>	1.467196	1.264030	1.670362

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	76.0934233	15.2186847	44.84	<.0001
Error	154	52.2626607	0.3393679		
Corrected Total	159	128.3560841			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.592831	44.89589	0.582553	1.297564

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.24552610	6.24552610	18.40	<.0001
SEX	1	3.60728585	3.60728585	10.63	0.0014
UCPDGR1	1	1.14652873	1.14652873	3.38	0.0680
TRTP	2	65.09408266	32.54704133	95.90	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.21071035	2.21071035	6.51	0.0117
SEX	1	2.75326294	2.75326294	8.11	0.0050
UCPDGR1	1	1.49892821	1.49892821	4.42	0.0372
TRTP	2	65.09408266	32.54704133	95.90	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	0.97394261	<.0001
THSm2.2	0.86334495	<.0001
mCC	2.34873436	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	0.973943	0.790636 1.157249
THSm2.2	0.863345	0.732133 0.994557
mCC	2.348734	2.169815 2.527654

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.374792	-1.629448	-1.120136
2 3	-1.485389	-1.706207	-1.264572

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.97394261	
<b>THSm2.2</b>	0.86334495	0.3335
<b>mCC</b>	2.34873436	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.973943	0.790636 1.157249
<b>THSm2.2</b>	0.863345	0.732133 0.994557
<b>mCC</b>	2.348734	2.169815 2.527654

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.110598	-0.335820	0.114625
<b>3 1</b>	1.374792	1.120136	1.629448

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	262.7556888	52.5511378	231.43	<.0001
Error	154	34.9693180	0.2270735		
Corrected Total	159	297.7250068			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.882545	22.99020	0.476522	2.072719

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.0236546	4.0236546	17.72	<.0001
SEX	1	2.1513683	2.1513683	9.47	0.0025
UCPDGR1	1	0.0504558	0.0504558	0.22	0.6380
TRTP	2	256.5302101	128.2651050	564.86	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.3009744	3.3009744	14.54	0.0002
SEX	1	0.7538212	0.7538212	3.32	0.0704
UCPDGR1	1	0.2039844	0.2039844	0.90	0.3447
TRTP	2	256.5302101	128.2651050	564.86	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.29303108	<.0001
<b>THSm2.2</b>	1.31410922	<.0001
<b>mCC</b>	4.18886948	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.293031	1.143365 1.442697
<b>THSm2.2</b>	1.314109	1.206750 1.421468
<b>mCC</b>	4.188869	4.042480 4.335259

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.895838	-3.104025	-2.687652
<b>2 3</b>	-2.874760	-3.055477	-2.694043

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.29303108	
<b>THSm2.2</b>	1.31410922	0.8213
<b>mCC</b>	4.18886948	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.293031	1.143365 1.442697
<b>THSm2.2</b>	1.314109	1.206750 1.421468
<b>mCC</b>	4.188869	4.042480 4.335259

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.021078	-0.162926	0.205083
<b>3 1</b>	2.895838	2.687652	3.104025

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	223.3531343	44.6706269	79.06	<.0001
Error	154	87.0138662	0.5650251		
Corrected Total	159	310.3670005			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.719642	34.39204	0.751682	2.185627

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.7196986	5.7196986	10.12	0.0018
SEX	1	2.8037491	2.8037491	4.96	0.0274
UCPDGR1	1	0.4480468	0.4480468	0.79	0.3746
TRTP	2	214.3816398	107.1908199	189.71	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.9609628	3.9609628	7.01	0.0089
SEX	1	1.3053739	1.3053739	2.31	0.1306
UCPDGR1	1	0.7239261	0.7239261	1.28	0.2594
TRTP	2	214.3816398	107.1908199	189.71	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.60728435	<.0001
<b>THSm2.2</b>	1.42112986	<.0001
<b>mCC</b>	4.11391833	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.607284	1.371196	1.843373
<b>THSm2.2</b>	1.421130	1.251778	1.590481
<b>mCC</b>	4.113918	3.882999	4.344837

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.506634	-2.835034	-2.178234
<b>2 3</b>	-2.692788	-2.977857	-2.407720

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.60728435	
<b>THSm2.2</b>	1.42112986	0.2071
<b>mCC</b>	4.11391833	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.607284	1.371196	1.843373
<b>THSm2.2</b>	1.421130	1.251778	1.590481
<b>mCC</b>	4.113918	3.882999	4.344837

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.186154	-0.476409	0.104100
<b>3 1</b>	2.506634	2.178234	2.835034

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	129.1220737	25.8244147	167.71	<.0001
Error	154	23.7137756	0.1539856		
Corrected Total	159	152.8358493			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.844842	28.01775	0.392410	1.400576

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.4122459	6.4122459	41.64	<.0001
SEX	1	0.3551495	0.3551495	2.31	0.1309
UCPDGR1	1	0.0521029	0.0521029	0.34	0.5616
TRTP	2	122.3025755	61.1512877	397.12	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.2013053	4.2013053	27.28	<.0001
SEX	1	0.1249323	0.1249323	0.81	0.3691
UCPDGR1	1	0.0101593	0.0101593	0.07	0.7976
TRTP	2	122.3025755	61.1512877	397.12	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.93867179	<.0001
<b>THSm2.2</b>	0.84235050	<.0001
<b>mCC</b>	2.86150047	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.938672	0.815327 1.062017
<b>THSm2.2</b>	0.842351	0.754020 0.930681
<b>mCC</b>	2.861500	2.741116 2.981885

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.922829	-2.094530	-1.751127
<b>2 3</b>	-2.019150	-2.167628	-1.870672

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.93867179	
<b>THSm2.2</b>	0.84235050	0.2107
<b>mCC</b>	2.86150047	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.938672	0.815327 1.062017
<b>THSm2.2</b>	0.842351	0.754020 0.930681
<b>mCC</b>	2.861500	2.741116 2.981885

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.096321	-0.247714	0.055072
<b>3 1</b>	1.922829	1.751127	2.094530

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	103.8803350	20.7760670	89.04	<.0001
Error	154	35.9343987	0.2333403		
Corrected Total	159	139.8147337			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.742986	32.36218	0.483053	1.492647

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.88076399	5.88076399	25.20	<.0001
SEX	1	1.13841771	1.13841771	4.88	0.0287
UCPDGR1	1	0.02283014	0.02283014	0.10	0.7549
TRTP	2	96.83832320	48.41916160	207.50	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.90877504	2.90877504	12.47	0.0005
SEX	1	0.74959819	0.74959819	3.21	0.0750
UCPDGR1	1	0.19562785	0.19562785	0.84	0.3613
TRTP	2	96.83832320	48.41916160	207.50	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.08616807	<.0001
<b>THSm2.2</b>	0.98537411	<.0001
<b>mCC</b>	2.78649001	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.086168	0.934331	1.238005
<b>THSm2.2</b>	0.985374	0.876640	1.094108
<b>mCC</b>	2.786490	2.638297	2.934683

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.700322	-1.911685	-1.488959
<b>2 3</b>	-1.801116	-1.983891	-1.618341

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	1.08616807	
THSm2.2	0.98537411	0.2870
mCC	2.78649001	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	1.086168	0.934331	1.238005
THSm2.2	0.985374	0.876640	1.094108
mCC	2.786490	2.638297	2.934683

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.100794	-0.287158	0.085570
3 1	1.700322	1.488959	1.911685

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 158

**Number of Observations Used** 156

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	36.73884885	7.34776977	31.34	<.0001
Error	150	35.16335248	0.23442235		
Corrected Total	155	71.90220133			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.510956	11.18954	0.484172	4.327005

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.29072515	15.29072515	65.23	<.0001
SEX	1	0.22782050	0.22782050	0.97	0.3258
UCPDGR1	1	0.05544319	0.05544319	0.24	0.6274
TRTP	2	21.16486001	10.58243001	45.14	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.98936820	11.98936820	51.14	<.0001
SEX	1	0.13888120	0.13888120	0.59	0.4427
UCPDGR1	1	0.06806974	0.06806974	0.29	0.5908
TRTP	2	21.16486001	10.58243001	45.14	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.12563127	<.0001
<b>THSm2.2</b>	4.10568188	<.0001
<b>mCC</b>	4.97122700	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.125631	3.973900 4.277363
<b>THSm2.2</b>	4.105682	3.996652 4.214712
<b>mCC</b>	4.971227	4.815167 5.127287

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.845596	-1.062710	-0.628482
<b>2 3</b>	-0.865545	-1.054895	-0.676195

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.12563127	
<b>THSm2.2</b>	4.10568188	0.8326
<b>mCC</b>	4.97122700	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.125631	3.973900 4.277363
<b>THSm2.2</b>	4.105682	3.996652 4.214712
<b>mCC</b>	4.971227	4.815167 5.127287

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.019949	-0.206145	0.166247
<b>3 1</b>	0.845596	0.628482	1.062710

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 159

**Number of Observations Used** 156

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	41.2652265	8.2530453	11.14	<.0001
Error	150	111.1379549	0.7409197		
Corrected Total	155	152.4031814			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.270764	18.88644	0.860767	4.557591

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	36.24659268	36.24659268	48.92	<.0001
SEX	1	0.20470233	0.20470233	0.28	0.5999
UCPDGR1	1	0.10779415	0.10779415	0.15	0.7034
TRTP	2	4.70613732	2.35306866	3.18	0.0446

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	33.44319347	33.44319347	45.14	<.0001
SEX	1	0.25041400	0.25041400	0.34	0.5619
UCPDGR1	1	0.11560612	0.11560612	0.16	0.6934
TRTP	2	4.70613732	2.35306866	3.18	0.0446

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.49185869	0.0559
<b>THSm2.2</b>	4.45144443	0.0156
<b>mCC</b>	4.86828693	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.491859	4.222109 4.761609
<b>THSm2.2</b>	4.451444	4.257610 4.645279
<b>mCC</b>	4.868287	4.590842 5.145732

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.376428	-0.762417	0.009560
<b>2 3</b>	-0.416843	-0.753472	-0.080213

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.49185869	
<b>THSm2.2</b>	4.45144443	0.8097
<b>mCC</b>	4.86828693	0.0559

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.491859	4.222109 4.761609
<b>THSm2.2</b>	4.451444	4.257610 4.645279
<b>mCC</b>	4.868287	4.590842 5.145732

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.040414	-0.371436	0.290607
<b>3 1</b>	0.376428	-0.009560	0.762417

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	125.5815192	25.1163038	181.42	<.0001
Error	154	21.3205246	0.1384450		
Corrected Total	159	146.9020438			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.854866	11.83549	0.372082	3.143782

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.05871576	27.05871576	195.45	<.0001
SEX	1	2.87358263	2.87358263	20.76	<.0001
UCPDGR1	1	0.00752208	0.00752208	0.05	0.8160
TRTP	2	95.64169872	47.82084936	345.41	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	18.52313352	18.52313352	133.79	<.0001
SEX	1	1.95654352	1.95654352	14.13	0.0002
UCPDGR1	1	0.09939419	0.09939419	0.72	0.3981
TRTP	2	95.64169872	47.82084936	345.41	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.63723209	<.0001
<b>THSm2.2</b>	2.68025492	<.0001
<b>mCC</b>	4.42388191	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.637232	2.520810 2.753655
<b>THSm2.2</b>	2.680255	2.596438 2.764072
<b>mCC</b>	4.423882	4.309675 4.538089

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.786650	-1.949240	-1.624060
<b>2 3</b>	-1.743627	-1.884386	-1.602868

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.63723209	
<b>THSm2.2</b>	2.68025492	0.5534
<b>mCC</b>	4.42388191	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.637232	2.520810 2.753655
<b>THSm2.2</b>	2.680255	2.596438 2.764072
<b>mCC</b>	4.423882	4.309675 4.538089

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.043023	-0.100048	0.186094
<b>3 1</b>	1.786650	1.624060	1.949240

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	191.7003447	38.3400689	81.89	<.0001
Error	154	72.0976385	0.4681665		
Corrected Total	159	263.7979833			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.726694	24.05137	0.684227	2.844857

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	22.1054205	22.1054205	47.22	<.0001
SEX	1	6.4964185	6.4964185	13.88	0.0003
UCPDGR1	1	0.4406819	0.4406819	0.94	0.3335
TRTP	2	162.6578238	81.3289119	173.72	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.9152995	11.9152995	25.45	<.0001
SEX	1	4.8229545	4.8229545	10.30	0.0016
UCPDGR1	1	0.9419467	0.9419467	2.01	0.1581
TRTP	2	162.6578238	81.3289119	173.72	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.24921729	<.0001
<b>THSm2.2</b>	2.20328865	<.0001
<b>mCC</b>	4.51187301	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.249217	2.035126 2.463308
<b>THSm2.2</b>	2.203289	2.049156 2.357421
<b>mCC</b>	4.511873	4.301855 4.721891

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.262656	-2.561645	-1.963666
<b>2 3</b>	-2.308584	-2.567428	-2.049741

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.24921729	
<b>THSm2.2</b>	2.20328865	0.7307
<b>mCC</b>	4.51187301	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.249217	2.035126 2.463308
<b>THSm2.2</b>	2.203289	2.049156 2.357421
<b>mCC</b>	4.511873	4.301855 4.721891

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.045929	-0.309023	0.217166
<b>3 1</b>	2.262656	1.963666	2.561645

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	44.64302579	8.92860516	60.72	<.0001
Error	154	22.64480788	0.14704421		
Corrected Total	159	67.28783367			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.663464	5.187736	0.383463	7.391730

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.46861873	27.46861873	186.81	<.0001
SEX	1	0.03961093	0.03961093	0.27	0.6045
UCPDGR1	1	0.16101295	0.16101295	1.09	0.2970
TRTP	2	16.97378317	8.48689159	57.72	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.97949206	26.97949206	183.48	<.0001
SEX	1	0.07082032	0.07082032	0.48	0.4887
UCPDGR1	1	0.08245265	0.08245265	0.56	0.4551
TRTP	2	16.97378317	8.48689159	57.72	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.21290696	<.0001
<b>THSm2.2</b>	7.19251893	<.0001
<b>mCC</b>	7.93999834	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.212907	7.092874 7.332940
<b>THSm2.2</b>	7.192519	7.106204 7.278834
<b>mCC</b>	7.939998	7.822363 8.057633

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.727091	-0.894593	-0.559590
<b>2 3</b>	-0.747479	-0.892545	-0.602414

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	7.21290696	
THSm2.2	7.19251893	0.7850
mCC	7.93999834	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	7.212907	7.092874 7.332940
THSm2.2	7.192519	7.106204 7.278834
mCC	7.939998	7.822363 8.057633

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.020388	-0.167768	0.126992
3 1	0.727091	0.559590	0.894593

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	49.05962348	9.81192470	40.70	<.0001
Error	154	37.12782900	0.24108980		
Corrected Total	159	86.18745247			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.569220	6.335251	0.491009	7.750426

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	29.44687132	29.44687132	122.14	<.0001
SEX	1	0.68466356	0.68466356	2.84	0.0940
UCPDGR1	1	0.00056260	0.00056260	0.00	0.9615
TRTP	2	18.92752599	9.46376300	39.25	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	30.36539847	30.36539847	125.95	<.0001
SEX	1	0.51467763	0.51467763	2.13	0.1460
UCPDGR1	1	0.00861944	0.00861944	0.04	0.8503
TRTP	2	18.92752599	9.46376300	39.25	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.50519323	<.0001
<b>THSm2.2</b>	7.55335312	<.0001
<b>mCC</b>	8.31807100	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.505193	7.351496 7.658890
<b>THSm2.2</b>	7.553353	7.442830 7.663876
<b>mCC</b>	8.318071	8.167444 8.468698

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.812878	-1.027356	-0.598399
<b>2 3</b>	-0.764718	-0.950468	-0.578968

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.50519323	
<b>THSm2.2</b>	7.55335312	0.6149
<b>mCC</b>	8.31807100	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.505193	7.351496 7.658890
<b>THSm2.2</b>	7.553353	7.442830 7.663876
<b>mCC</b>	8.318071	8.167444 8.468698

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.048160	-0.140554	0.236873
<b>3 1</b>	0.812878	0.598399	1.027356

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	66.36323412	13.27264682	68.47	<.0001
Error	154	29.85347957	0.19385376		
Corrected Total	159	96.21671370			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.689727	12.54023	0.440288	3.511006

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.38091830	7.38091830	38.07	<.0001
SEX	1	0.05107974	0.05107974	0.26	0.6085
UCPDGR1	1	0.07164143	0.07164143	0.37	0.5441
TRTP	2	58.85959465	29.42979733	151.81	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.93927003	5.93927003	30.64	<.0001
SEX	1	0.00300937	0.00300937	0.02	0.9010
UCPDGR1	1	0.00027268	0.00027268	0.00	0.9701
TRTP	2	58.85959465	29.42979733	151.81	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.11021433	<.0001
<b>THSm2.2</b>	3.16789604	<.0001
<b>mCC</b>	4.52710717	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.110214	2.972118 3.248311
<b>THSm2.2</b>	3.167896	3.068775 3.267018
<b>mCC</b>	4.527107	4.392038 4.662177

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.416893	-1.609499	-1.224287
<b>2 3</b>	-1.359211	-1.525776	-1.192646

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	3.11021433	
THSm2.2	3.16789604	0.5027
mCC	4.52710717	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	3.110214	2.972118 3.248311
THSm2.2	3.167896	3.068775 3.267018
mCC	4.527107	4.392038 4.662177

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.057682	-0.111949	0.227312
3 1	1.416893	1.224287	1.609499

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	49.2451792	9.8490358	24.96	<.0001
Error	154	60.7668767	0.3945901		
Corrected Total	159	110.0120559			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.447634	16.65351	0.628164	3.771962

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	13.31391844	13.31391844	33.74	<.0001
SEX	1	0.20882792	0.20882792	0.53	0.4680
UCPDGR1	1	0.45836532	0.45836532	1.16	0.2828
TRTP	2	35.26406754	17.63203377	44.68	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.55464448	9.55464448	24.21	<.0001
SEX	1	0.10067199	0.10067199	0.26	0.6142
UCPDGR1	1	0.75476863	0.75476863	1.91	0.1687
TRTP	2	35.26406754	17.63203377	44.68	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.49138176	<.0001
<b>THSm2.2</b>	3.49129004	<.0001
<b>mCC</b>	4.55925183	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.491382	3.294358 3.688406
<b>THSm2.2</b>	3.491290	3.349872 3.632708
<b>mCC</b>	4.559252	4.366547 4.751957

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.067870	-1.342663	-0.793077
<b>2 3</b>	-1.067962	-1.305602	-0.830322

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.49138176	
<b>THSm2.2</b>	3.49129004	0.9994
<b>mCC</b>	4.55925183	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.491382	3.294358 3.688406
<b>THSm2.2</b>	3.491290	3.349872 3.632708
<b>mCC</b>	4.559252	4.366547 4.751957

**Least Squares Means for Effect TRTP**

<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.000091713	-0.242105	0.241922
<b>3 1</b>	1.067870	0.793077	1.342663

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	29.26581636	5.85316327	41.47	<.0001
Error	154	21.73695515	0.14114906		
Corrected Total	159	51.00277150			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.573808	7.214389	0.375698	5.207622

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.76279012	3.76279012	26.66	<.0001
SEX	1	0.19326076	0.19326076	1.37	0.2438
UCPDGR1	1	0.04349430	0.04349430	0.31	0.5796
TRTP	2	25.26627118	12.63313559	89.50	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.49411468	2.49411468	17.67	<.0001
SEX	1	0.07396448	0.07396448	0.52	0.4702
UCPDGR1	1	0.00731076	0.00731076	0.05	0.8203
TRTP	2	25.26627118	12.63313559	89.50	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.93623493	<.0001
<b>THSm2.2</b>	4.98205668	<.0001
<b>mCC</b>	5.86945889	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.936235	4.818651 5.053819
<b>THSm2.2</b>	4.982057	4.897396 5.066717
<b>mCC</b>	5.869459	5.754058 5.984859

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.933224	-1.097336	-0.769112
<b>2 3</b>	-0.887402	-1.029539	-0.745266

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.93623493	
<b>THSm2.2</b>	4.98205668	0.5316
<b>mCC</b>	5.86945889	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.936235	4.818651 5.053819
<b>THSm2.2</b>	4.982057	4.897396 5.066717
<b>mCC</b>	5.869459	5.754058 5.984859

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.045822	-0.098561	0.190205
<b>3 1</b>	0.933224	0.769112	1.097336

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	16.65763791	3.33152758	14.58	<.0001
Error	154	35.17943242	0.22843787		
Corrected Total	159	51.83707033			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.321346	8.976336	0.477952	5.324575

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.33994859	1.33994859	5.87	0.0166
SEX	1	1.13227392	1.13227392	4.96	0.0274
UCPDGR1	1	0.10058246	0.10058246	0.44	0.5080
TRTP	2	14.08483295	7.04241647	30.83	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.24191483	2.24191483	9.81	0.0021
SEX	1	1.34955387	1.34955387	5.91	0.0162
UCPDGR1	1	0.16922819	0.16922819	0.74	0.3907
TRTP	2	14.08483295	7.04241647	30.83	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.17338719	<.0001
THSm2.2	5.16077264	<.0001
mCC	5.83982883	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	5.173387	5.023801	5.322974
THSm2.2	5.160773	5.053070	5.268475
mCC	5.839829	5.693020	5.986638

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.666442	-0.875220	-0.457664
2 3	-0.679056	-0.859878	-0.498235

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.17338719	
<b>THSm2.2</b>	5.16077264	0.8923
<b>mCC</b>	5.83982883	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.173387	5.023801 5.322974
<b>THSm2.2</b>	5.160773	5.053070 5.268475
<b>mCC</b>	5.839829	5.693020 5.986638

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.012615	-0.196294	0.171065
<b>3 1</b>	0.666442	0.457664	0.875220

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	14.22477772	2.84495554	20.86	<.0001
Error	154	21.00160532	0.13637406		
Corrected Total	159	35.22638304			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.403810	4.584736	0.369289	8.054741

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	12.45042973	12.45042973	91.30	<.0001
SEX	1	0.24995837	0.24995837	1.83	0.1778
UCPDGR1	1	0.10615322	0.10615322	0.78	0.3790
TRTP	2	1.41823641	0.70911820	5.20	0.0065

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.18062811	11.18062811	81.99	<.0001
SEX	1	0.29104106	0.29104106	2.13	0.1461
UCPDGR1	1	0.13084437	0.13084437	0.96	0.3289
TRTP	2	1.41823641	0.70911820	5.20	0.0065

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.08044217	0.1361
<b>THSm2.2</b>	7.97713110	0.0017
<b>mCC</b>	8.20461288	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.080442	7.964105 8.196779
<b>THSm2.2</b>	7.977131	7.894017 8.060245
<b>mCC</b>	8.204613	8.090416 8.318810

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.124171	-0.287870	0.039529
<b>2 3</b>	-0.227482	-0.367887	-0.087077

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.08044217	
<b>THSm2.2</b>	7.97713110	0.1544
<b>mCC</b>	8.20461288	0.1361

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.080442	7.964105 8.196779
<b>THSm2.2</b>	7.977131	7.894017 8.060245
<b>mCC</b>	8.204613	8.090416 8.318810

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.103311	-0.245911	0.039289
<b>3 1</b>	0.124171	-0.039529	0.287870

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	27.36216137	5.47243227	15.16	<.0001
Error	154	55.58936738	0.36096992		
Corrected Total	159	82.95152875			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.329857	7.308145	0.600808	8.221070

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.21863781	26.21863781	72.63	<.0001
SEX	1	0.00151557	0.00151557	0.00	0.9484
UCPDGR1	1	0.08179945	0.08179945	0.23	0.6347
TRTP	2	1.06020854	0.53010427	1.47	0.2335

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.11178333	27.11178333	75.11	<.0001
SEX	1	0.00417011	0.00417011	0.01	0.9145
UCPDGR1	1	0.06719840	0.06719840	0.19	0.6667
TRTP	2	1.06020854	0.53010427	1.47	0.2335

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.31317258	0.1015
<b>THSm2.2</b>	8.24436575	0.1868
<b>mCC</b>	8.09104594	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.313173	8.123900 8.502446
<b>THSm2.2</b>	8.244366	8.109144 8.379587
<b>mCC</b>	8.091046	7.905255 8.276837

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.222127	-0.044201	0.488455
<b>2 3</b>	0.153320	-0.075110	0.381750

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.31317258	
<b>THSm2.2</b>	8.24436575	0.5588
<b>mCC</b>	8.09104594	0.1015

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.313173	8.123900 8.502446
<b>THSm2.2</b>	8.244366	8.109144 8.379587
<b>mCC</b>	8.091046	7.905255 8.276837

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.068807	-0.300808	0.163194
<b>3 1</b>	-0.222127	-0.488455	0.044201

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	400.5377112	80.1075422	331.93	<.0001
Error	154	37.1658397	0.2413366		
Corrected Total	159	437.7035509			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.915089	46.56462	0.491260	1.055008

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	33.3032342	33.3032342	137.99	<.0001
SEX	1	1.6575125	1.6575125	6.87	0.0097
UCPDGR1	1	0.0021993	0.0021993	0.01	0.9241
TRTP	2	365.5747652	182.7873826	757.40	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	16.4264189	16.4264189	68.06	<.0001
SEX	1	0.9414907	0.9414907	3.90	0.0500
UCPDGR1	1	0.0142201	0.0142201	0.06	0.8085
TRTP	2	365.5747652	182.7873826	757.40	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.57660170	<.0001
<b>THSm2.2</b>	1.94525007	0.3733
<b>mCC</b>	1.86121194	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.576602	-1.730473	-1.422731
<b>THSm2.2</b>	1.945250	1.834681	2.055819
<b>mCC</b>	1.861212	1.710375	2.012049

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-3.437814	-3.652372	-3.223255
<b>2 3</b>	0.084038	-0.101885	0.269962

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.57660170	
<b>THSm2.2</b>	1.94525007	<.0001
<b>mCC</b>	1.86121194	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.576602	-1.730473	-1.422731
<b>THSm2.2</b>	1.945250	1.834681	2.055819
<b>mCC</b>	1.861212	1.710375	2.012049

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	3.521852	3.332963	3.710741
<b>3 1</b>	3.437814	3.223255	3.652372

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	271.1144777	54.2228955	44.35	<.0001
Error	154	188.2637390	1.2224918		
Corrected Total	159	459.3782167			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.590177	84.97462	1.105664	1.301169

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	41.6968205	41.6968205	34.11	<.0001
SEX	1	0.0570227	0.0570227	0.05	0.8293
UCPDGR1	1	0.4131601	0.4131601	0.34	0.5619
TRTP	2	228.9474745	114.4737372	93.64	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.4143980	24.4143980	19.97	<.0001
SEX	1	0.0016195	0.0016195	0.00	0.9710
UCPDGR1	1	0.6012508	0.6012508	0.49	0.4842
TRTP	2	228.9474745	114.4737372	93.64	<.0001

**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-0.76917476	<.0001
<b>THSm2.2</b>	2.01366980	0.8004
<b>mCC</b>	1.96001076	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	-0.769175	-1.115487 -0.422863
<b>THSm2.2</b>	2.013670	1.764815 2.262524
<b>mCC</b>	1.960011	1.620526 2.299495

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.729186	-3.212085	-2.246286
<b>2 3</b>	0.053659	-0.364793	0.472111

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.5 Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - FAS**

The where clause used on the dataset adam.adbx: fasfl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-0.76917476	
<b>THSm2.2</b>	2.01366980	<.0001
<b>mCC</b>	1.96001076	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-0.769175	-1.115487	-0.422863
<b>THSm2.2</b>	2.013670	1.764815	2.262524
<b>mCC</b>	1.960011	1.620526	2.299495

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	2.782845	2.357718	3.207971
<b>3 1</b>	2.729186	2.246286	3.212085

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.2968

**Fit Statistics**  
**-2 Res Log Likelihood** 267.2  
**AIC (Smaller is Better)** 269.2  
**AICC (Smaller is Better)** 269.3  
**BIC (Smaller is Better)** 272.2

**Type 3 Tests of Fixed Effects**  
**Num Den**  
**Effect DF DF F Value Pr > F**  
**LOGBASE** 1 150 29.23 <.0001  
**SEX** 1 150 5.36 0.0220  
**UCPDGR1** 1 150 0.00 0.9813  
**TRTP** 2 150 203.94 <.0001

**Least Squares Means**  
**Planned Standard**  
**EffectTreatment Estimate Error DF t Value Pr > |t| Alpha Lower Upper**  
**TRTP SA** 4.4266 0.08749 150 50.60 <.0001 0.05 4.2538 4.5995  
**TRTP THSm2.2** 4.4226 0.06277 150 70.45 <.0001 0.05 4.2985 4.5466  
**TRTP mCC** 6.4367 0.08600 150 74.85 <.0001 0.05 6.2668 6.6066  
**TRTP SA** 4.4266 0.08749 150 50.60 <.0001 0.05 4.2538 4.5995  
**TRTP THSm2.2** 4.4226 0.06277 150 70.45 <.0001 0.05 4.2985 4.5466



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	mCC	6.4367	0.08600	150	74.85	<.0001	0.05	6.2668 6.6066

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.0100	0.1225	150	-16.41	<.0001	0.05	-2.2521 -1.7680
TRTP	THSm2.2	mCC	-2.0141	0.1060	150	-19.00	<.0001	0.05	-2.2236 -1.8047
TRTP	THSm2.2	SA	-0.00407	0.1073	150	-0.04	0.9698	0.05	-0.2162 0.2080
TRTP	mCC	SA	2.0100	0.1225	150	16.41	<.0001	0.05	1.7680 2.2521

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.4403
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	307.9
<b>AIC (Smaller is Better)</b>	309.9
<b>AICC (Smaller is Better)</b>	310.0
<b>BIC (Smaller is Better)</b>	312.9

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	33.27	<.0001
<b>SEX</b>	1	141	0.09	0.7647
<b>UCPDGR1</b>	1	141	0.78	0.3791
<b>TRTP</b>	2	141	92.04	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.9543	0.1095	141	45.24	<.0001	0.05	4.7378 5.1708



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.9680	0.08008	141	62.03	<.0001	0.05 4.8097 5.1263
TRTP	mCC	6.6280	0.1048	141	63.27	<.0001	0.05 6.4209 6.8351
TRTP	SA	4.9543	0.1095	141	45.24	<.0001	0.05 4.7378 5.1708
TRTP	THSm2.2	4.9680	0.08008	141	62.03	<.0001	0.05 4.8097 5.1263
TRTP	mCC	6.6280	0.1048	141	63.27	<.0001	0.05 6.4209 6.8351

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-1.6737	0.1511	141	-11.08	<.0001	0.05	-1.9725 -1.3749
TRTP	THSm2.2	mCC	-1.6600	0.1314	141	-12.63	<.0001	0.05	-1.9199 -1.4002
TRTP	THSm2.2	SA	0.01369	0.1353	141	0.10	0.9195	0.05	-0.2538 0.2812
TRTP	mCC	SA	1.6737	0.1511	141	11.08	<.0001	0.05	1.3749 1.9725

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1006
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	103.7
<b>AIC (Smaller is Better)</b>	105.7
<b>AICC (Smaller is Better)</b>	105.7
<b>BIC (Smaller is Better)</b>	108.7

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	68.17	<.0001
<b>SEX</b>	1	150	0.20	0.6546
<b>UCPDGR1</b>	1	150	1.25	0.2650
<b>TRTP</b>	2	150	137.65	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	5.2115	0.05098	150	102.23	<.0001	0.05	5.1107	5.3122



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	5.7172	0.03656	150	156.38	<.0001	0.05 5.6450 5.7894
TRTP	mCC	6.3843	0.04986	150	128.04	<.0001	0.05 6.2858 6.4828
TRTP	SA	5.2115	0.05098	150	102.23	<.0001	0.05 5.1107 5.3122
TRTP	THSm2.2	5.7172	0.03656	150	156.38	<.0001	0.05 5.6450 5.7894
TRTP	mCC	6.3843	0.04986	150	128.04	<.0001	0.05 6.2858 6.4828

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-1.1728	0.07113	150	-16.49	<.0001	0.05	-1.3134 -1.0323
TRTP	THSm2.2	mCC	-0.6671	0.06157	150	-10.84	<.0001	0.05	-0.7887 -0.5454
TRTP	THSm2.2	SA	0.5057	0.06251	150	8.09	<.0001	0.05	0.3822 0.6292
TRTP	mCC	SA	1.1728	0.07113	150	16.49	<.0001	0.05	1.0323 1.3134

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1325
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	137.3
<b>AIC (Smaller is Better)</b>	139.3
<b>AICC (Smaller is Better)</b>	139.4
<b>BIC (Smaller is Better)</b>	142.3

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	17.79	<.0001
<b>SEX</b>	1	141	1.92	0.1676
<b>UCPDGR1</b>	1	141	0.55	0.4581
<b>TRTP</b>	2	141	68.76	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	5.6291	0.06006	141	93.73	<.0001	0.05	5.5104	5.7479



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	5.9518	0.04401	141	135.22	<.0001	0.05	5.8648 6.0388
TRTP	mCC	6.5698	0.05727	141	114.71	<.0001	0.05	6.4566 6.6830
TRTP	SA	5.6291	0.06006	141	93.73	<.0001	0.05	5.5104 5.7479
TRTP	THSm2.2	5.9518	0.04401	141	135.22	<.0001	0.05	5.8648 6.0388
TRTP	mCC	6.5698	0.05727	141	114.71	<.0001	0.05	6.4566 6.6830

Differences of Least Squares Means									
Planned	Planned	Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.9406	0.08262	141	-11.38	<.0001	0.05	-1.1040 -0.7773
TRTP	THSm2.2	mCC	-0.6180	0.07205	141	-8.58	<.0001	0.05	-0.7604 -0.4755
TRTP	THSm2.2	SA	0.3227	0.07424	141	4.35	<.0001	0.05	0.1759 0.4695
TRTP	mCC	SA	0.9406	0.08262	141	11.38	<.0001	0.05	0.7773 1.1040

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1966
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	205.5
<b>AIC (Smaller is Better)</b>	207.5
<b>AICC (Smaller is Better)</b>	207.5
<b>BIC (Smaller is Better)</b>	210.5

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	160.86	<.0001
<b>SEX</b>	1	150	1.48	0.2252
<b>UCPDGR1</b>	1	150	0.00	0.9802
<b>TRTP</b>	2	150	393.77	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.6552	0.07116	150	65.42	<.0001	0.05	4.5146	4.7958



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.7837	0.05109	150	93.63	<.0001	0.05	4.6828 4.8847
TRTP	mCC	7.0057	0.06979	150	100.38	<.0001	0.05	6.8678 7.1436
TRTP	SA	4.6552	0.07116	150	65.42	<.0001	0.05	4.5146 4.7958
TRTP	THSm2.2	4.7837	0.05109	150	93.63	<.0001	0.05	4.6828 4.8847
TRTP	mCC	7.0057	0.06979	150	100.38	<.0001	0.05	6.8678 7.1436

Differences of Least Squares Means											
Planned		Planned	Standard								
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-2.3504	0.09936	150	-23.65	<.0001	0.05		-2.5468	-2.1541
TRTP	THSm2.2	mCC	-2.2219	0.08607	150	-25.81	<.0001	0.05		-2.3920	-2.0519
TRTP	THSm2.2	SA	0.1285	0.08734	150	1.47	0.1433	0.05		-0.04408	0.3011
TRTP	mCC	SA	2.3504	0.09936	150	23.65	<.0001	0.05		2.1541	2.5468



**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.4350
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	306.3
<b>AIC (Smaller is Better)</b>	308.3
<b>AICC (Smaller is Better)</b>	308.3
<b>BIC (Smaller is Better)</b>	311.2

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	62.38	<.0001
<b>SEX</b>	1	141	5.28	0.0230
<b>UCPDGR1</b>	1	141	1.60	0.2081
<b>TRTP</b>	2	141	141.09	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	5.0190	0.1088 141	46.13	<.0001	0.05	4.8039	5.2341



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	5.0223	0.07961	141	63.09	<.0001	0.05 4.8649 5.1797
TRTP	mCC	7.0631	0.1038	141	68.03	<.0001	0.05 6.8578 7.2683
TRTP	SA	5.0190	0.1088	141	46.13	<.0001	0.05 4.8039 5.2341
TRTP	THSm2.2	5.0223	0.07961	141	63.09	<.0001	0.05 4.8649 5.1797
TRTP	mCC	7.0631	0.1038	141	68.03	<.0001	0.05 6.8578 7.2683

Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-2.0440	0.1497	141	-13.65	<.0001	0.05	-2.3401 -1.7480
TRTP	THSm2.2	mCC	-2.0407	0.1303	141	-15.66	<.0001	0.05	-2.2984 -1.7831
TRTP	THSm2.2	SA	0.003308	0.1345	141	0.02	0.9804	0.05	-0.2625 0.2692
TRTP	mCC	SA	2.0440	0.1497	141	13.65	<.0001	0.05	1.7480 2.3401

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: COHb (%), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.02947
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	-81.4
<b>AIC (Smaller is Better)</b>	-79.4
<b>AICC (Smaller is Better)</b>	-79.4
<b>BIC (Smaller is Better)</b>	-76.4

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	32.90	<.0001
<b>SEX</b>	1	150	10.60	0.0014
<b>UCPDGR1</b>	1	150	0.06	0.8045
<b>TRTP</b>	2	150	325.54	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	0.9104	0.02755	150	33.05	<.0001	0.05	0.8560 0.9649



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	0.9035	0.01978	150	45.67	<.0001	0.05	0.8644 0.9426
TRTP	mCC	1.7036	0.02698	150	63.14	<.0001	0.05	1.6503 1.7570
TRTP	SA	0.9104	0.02755	150	33.05	<.0001	0.05	0.8560 0.9649
TRTP	THSm2.2	0.9035	0.01978	150	45.67	<.0001	0.05	0.8644 0.9426
TRTP	mCC	1.7036	0.02698	150	63.14	<.0001	0.05	1.6503 1.7570

Differences of Least Squares Means									
Planned		Standard							
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.7932	0.03843	150	-20.64	<.0001	0.05	-0.8691 -0.7173
TRTP	THSm2.2	mCC	-0.8001	0.03331	150	-24.02	<.0001	0.05	-0.8659 -0.7343
TRTP	THSm2.2	SA	-0.00692	0.03382	150	-0.20	0.8380	0.05	-0.07374 0.05989
TRTP	mCC	SA	0.7932	0.03843	150	20.64	<.0001	0.05	0.7173 0.8691

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: COHb (%), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.03557
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	-49.1
<b>AIC (Smaller is Better)</b>	-47.1
<b>AICC (Smaller is Better)</b>	-47.0
<b>BIC (Smaller is Better)</b>	-44.1

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	8.51	0.0041
<b>SEX</b>	1	141	0.17	0.6847
<b>UCPDGR1</b>	1	141	2.32	0.1302
<b>TRTP</b>	2	141	174.84	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	1.1165	0.03112	141	35.88	<.0001	0.05	1.0550 1.1780





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	1.0872	0.02277	141	47.75	<.0001	0.05	1.0421 1.1322
TRTP	mCC	1.7463	0.02965	141	58.89	<.0001	0.05	1.6877 1.8050
TRTP	SA	1.1165	0.03112	141	35.88	<.0001	0.05	1.0550 1.1780
TRTP	THSm2.2	1.0872	0.02277	141	47.75	<.0001	0.05	1.0421 1.1322
TRTP	mCC	1.7463	0.02965	141	58.89	<.0001	0.05	1.6877 1.8050

Differences of Least Squares Means								
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.6299	0.04280	141	-14.72	<.0001	0.05 -0.7145 -0.5452
TRTP	THSm2.2	mCC	-0.6592	0.03725	141	-17.70	<.0001	0.05 -0.7328 -0.5856
TRTP	THSm2.2	SA	-0.02934	0.03847	141	-0.76	0.4469	0.05 -0.1054 0.04671
TRTP	mCC	SA	0.6299	0.04280	141	14.72	<.0001	0.05 0.5452 0.7145

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.06615
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	41.6
<b>AIC (Smaller is Better)</b>	43.6
<b>AICC (Smaller is Better)</b>	43.6
<b>BIC (Smaller is Better)</b>	46.6

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	900.73	<.0001
<b>SEX</b>	1	150	6.70	0.0106
<b>UCPDGR1</b>	1	150	4.39	0.0379
<b>TRTP</b>	2	150	187.49	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	3.4324	0.04131	150	83.08	<.0001	0.05	3.3508 3.5140



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.6116	0.02964	150	121.85	<.0001	0.05	3.5530 3.6702
TRTP	mCC	4.4430	0.04043	150	109.91	<.0001	0.05	4.3632 4.5229
TRTP	SA	3.4324	0.04131	150	83.08	<.0001	0.05	3.3508 3.5140
TRTP	THSm2.2	3.6116	0.02964	150	121.85	<.0001	0.05	3.5530 3.6702
TRTP	mCC	4.4430	0.04043	150	109.91	<.0001	0.05	4.3632 4.5229

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.0107	0.05764	150	-17.53	<.0001	0.05	-1.1246 -0.8968
TRTP	THSm2.2	mCC	-0.8315	0.04989	150	-16.67	<.0001	0.05	-0.9300 -0.7329
TRTP	THSm2.2	SA	0.1792	0.05071	150	3.53	0.0005	0.05	0.07900 0.2794
TRTP	mCC	SA	1.0107	0.05764	150	17.53	<.0001	0.05	0.8968 1.1246

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.5616
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	341.7
<b>AIC (Smaller is Better)</b>	343.7
<b>AICC (Smaller is Better)</b>	343.7
<b>BIC (Smaller is Better)</b>	346.6

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	48.91	<.0001
<b>SEX</b>	1	141	0.25	0.6144
<b>UCPDGR1</b>	1	141	5.20	0.0241
<b>TRTP</b>	2	141	71.14	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	2.7027	0.1239	141	21.82	<.0001	0.05	2.4579 2.9476



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	3.1117	0.09056	141	34.36	<.0001	0.05	2.9327 3.2908
TRTP	mCC	4.5726	0.1178	141	38.82	<.0001	0.05	4.3397 4.8055
TRTP	SA	2.7027	0.1239	141	21.82	<.0001	0.05	2.4579 2.9476
TRTP	THSm2.2	3.1117	0.09056	141	34.36	<.0001	0.05	2.9327 3.2908
TRTP	mCC	4.5726	0.1178	141	38.82	<.0001	0.05	4.3397 4.8055

Differences of Least Squares Means								
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.8698	0.1702	141	-10.99	<.0001	0.05 -2.2062 -1.5334
TRTP	THSm2.2	mCC	-1.4608	0.1481	141	-9.87	<.0001	0.05 -1.7535 -1.1681
TRTP	THSm2.2	SA	0.4090	0.1533	141	2.67	0.0085	0.05 0.1060 0.7120
TRTP	mCC	SA	1.8698	0.1702	141	10.99	<.0001	0.05 1.5334 2.2062

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Exhaled CO (ppm), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	17.3613
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	882.0
<b>AIC (Smaller is Better)</b>	884.0
<b>AICC (Smaller is Better)</b>	884.0
<b>BIC (Smaller is Better)</b>	887.0

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	150	20.73	<.0001
<b>SEX</b>	1	150	1.36	0.2456
<b>UCPDGR1</b>	1	150	0.44	0.5086
<b>TRTP</b>	2	150	139.01	<.0001

**Least Squares Means****Standard**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	SA	3.1246	0.6705	150	4.66	<.0001	0.05	1.7998	4.4495



		Least Squares Means							
Planned		Standard							
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	2.2840	0.4809	150	4.75	<.0001	0.05	1.3337	3.2343
TRTP	mCC	15.2275	0.6564	150	23.20	<.0001	0.05	13.9304	16.5245
TRTP	SA	3.1246	0.6705	150	4.66	<.0001	0.05	1.7998	4.4495
TRTP	THSm2.2	2.2840	0.4809	150	4.75	<.0001	0.05	1.3337	3.2343
TRTP	mCC	15.2275	0.6564	150	23.20	<.0001	0.05	13.9304	16.5245

		Differences of Least Squares Means							
Planned		Standard							
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-12.1028	0.9327	150	-12.98	<.0001	0.05	-13.9457 -10.2599
TRTP	THSm2.2	mCC	-12.9435	0.8117	150	-15.95	<.0001	0.05	-14.5473 -11.3397
TRTP	THSm2.2	SA	-0.8407	0.8243	150	-1.02	0.3095	0.05	-2.4695 0.7882
TRTP	mCC	SA	12.1028	0.9327	150	12.98	<.0001	0.05	10.2599 13.9457

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Exhaled CO (ppm), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	14.2417
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	802.2
<b>AIC (Smaller is Better)</b>	804.2
<b>AICC (Smaller is Better)</b>	804.2
<b>BIC (Smaller is Better)</b>	807.2

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	141	0.97	0.3263
<b>SEX</b>	1	141	0.31	0.5791
<b>UCPDGR1</b>	1	141	4.27	0.0406
<b>TRTP</b>	2	141	87.79	<.0001

**Least Squares Means****Standard**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	<b>SA</b>	2.5993	0.6227	141	4.17	<.0001	0.05	1.3682	3.8305



		Least Squares Means							
Planned		Standard							
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	2.3545	0.4558	141	5.17	<.0001	0.05	1.4534	3.2556
TRTP	mCC	11.6515	0.5933	141	19.64	<.0001	0.05	10.4786	12.8244
TRTP	SA	2.5993	0.6227	141	4.17	<.0001	0.05	1.3682	3.8305
TRTP	THSm2.2	2.3545	0.4558	141	5.17	<.0001	0.05	1.4534	3.2556
TRTP	mCC	11.6515	0.5933	141	19.64	<.0001	0.05	10.4786	12.8244

		Differences of Least Squares Means							
Planned		Standard							
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-9.0522	0.8563	141	-10.57	<.0001	0.05	-10.7451 -7.3593
TRTP	THSm2.2	mCC	-9.2970	0.7457	141	-12.47	<.0001	0.05	-10.7713 -7.8227
TRTP	THSm2.2	SA	-0.2448	0.7693	141	-0.32	0.7508	0.05	-1.7657 1.2761
TRTP	mCC	SA	9.0522	0.8563	141	10.57	<.0001	0.05	7.3593 10.7451

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.09419
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	93.6
<b>AIC (Smaller is Better)</b>	95.6
<b>AICC (Smaller is Better)</b>	95.6
<b>BIC (Smaller is Better)</b>	98.6

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	138.20	<.0001
<b>SEX</b>	1	150	21.27	<.0001
<b>UCPDGR1</b>	1	150	0.09	0.7644
<b>TRTP</b>	2	150	146.47	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	3.7633	0.04927	150	76.37	<.0001	0.05	3.6659	3.8606



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.8557	0.03537	150	109.00	<.0001	0.05	3.7858 3.9256
TRTP	mCC	4.7812	0.04850	150	98.59	<.0001	0.05	4.6854 4.8770
TRTP	SA	3.7633	0.04927	150	76.37	<.0001	0.05	3.6659 3.8606
TRTP	THSm2.2	3.8557	0.03537	150	109.00	<.0001	0.05	3.7858 3.9256
TRTP	mCC	4.7812	0.04850	150	98.59	<.0001	0.05	4.6854 4.8770

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-1.0179	0.06901	150	-14.75	<.0001	0.05	-1.1543	-0.8815
TRTP	THSm2.2	mCC	-0.9255	0.05968	150	-15.51	<.0001	0.05	-1.0434	-0.8076
TRTP	THSm2.2	SA	0.09240	0.06050	150	1.53	0.1288	0.05	-0.02714	0.2119
TRTP	mCC	SA	1.0179	0.06901	150	14.75	<.0001	0.05	0.8815	1.1543



**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1452
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	150.0
<b>AIC (Smaller is Better)</b>	152.0
<b>AICC (Smaller is Better)</b>	152.1
<b>BIC (Smaller is Better)</b>	155.0

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	32.11	<.0001
<b>SEX</b>	1	141	9.81	0.0021
<b>UCPDGR1</b>	1	141	1.13	0.2886
<b>TRTP</b>	2	141	41.35	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.5186	0.06288 141	71.87	<.0001	0.05	4.3943	4.6429



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	4.4591	0.04599	141	96.96	<.0001	0.05	4.3682 4.5500
TRTP	mCC	5.1186	0.06028	141	84.91	<.0001	0.05	4.9994 5.2378
TRTP	SA	4.5186	0.06288	141	71.87	<.0001	0.05	4.3943 4.6429
TRTP	THSm2.2	4.4591	0.04599	141	96.96	<.0001	0.05	4.3682 4.5500
TRTP	mCC	5.1186	0.06028	141	84.91	<.0001	0.05	4.9994 5.2378

Differences of Least Squares Means								
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.6000	0.08685	141	-6.91	<.0001	0.05 -0.7717 -0.4283
TRTP	THSm2.2	mCC	-0.6595	0.07549	141	-8.74	<.0001	0.05 -0.8088 -0.5103
TRTP	THSm2.2	SA	-0.05955	0.07772	141	-0.77	0.4448	0.05 -0.2132 0.09409
TRTP	mCC	SA	0.6000	0.08685	141	6.91	<.0001	0.05 0.4283 0.7717

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: NNN (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.3259
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	281.8
<b>AIC (Smaller is Better)</b>	283.8
<b>AICC (Smaller is Better)</b>	283.8
<b>BIC (Smaller is Better)</b>	286.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	198.77	<.0001
<b>SEX</b>	1	150	5.05	0.0260
<b>UCPDGR1</b>	1	150	2.34	0.1284
<b>TRTP</b>	2	150	355.16	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	-1.8937	0.09162	150	-20.67	<.0001	0.05	-2.0748	-1.7127



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	0.1687	0.06581	150	2.56	0.0114	0.05	0.03864 0.2987
TRTP	mCC	1.4795	0.08973	150	16.49	<.0001	0.05	1.3022 1.6568
TRTP	SA	-1.8937	0.09162	150	-20.67	<.0001	0.05	-2.0748 -1.7127
TRTP	THSm2.2	0.1687	0.06581	150	2.56	0.0114	0.05	0.03864 0.2987
TRTP	mCC	1.4795	0.08973	150	16.49	<.0001	0.05	1.3022 1.6568

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-3.3732	0.1278	150	-26.40	<.0001	0.05 -3.6257 -3.1207
TRTP	THSm2.2	mCC	-1.3108	0.1108	150	-11.83	<.0001	0.05 -1.5298 -1.0919
TRTP	THSm2.2	SA	2.0624	0.1125	150	18.33	<.0001	0.05 1.8401 2.2847
TRTP	mCC	SA	3.3732	0.1278	150	26.40	<.0001	0.05 3.1207 3.6257

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: NNN (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	146

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	146
<b>Number of Observations Used</b>	146
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.6211
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	354.6
<b>AIC (Smaller is Better)</b>	356.6
<b>AICC (Smaller is Better)</b>	356.6
<b>BIC (Smaller is Better)</b>	359.5

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	140	102.17	<.0001
<b>SEX</b>	1	140	4.22	0.0418
<b>UCPDGR1</b>	1	140	0.84	0.3615
<b>TRTP</b>	2	140	119.13	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	-1.2368	0.1319	140	-9.37	<.0001	0.05	-1.4977 -0.9759





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	0.2939	0.09525	140	3.09	0.0024	0.05	0.1056 0.4822
TRTP	mCC	1.5416	0.1240	140	12.43	<.0001	0.05	1.2964 1.7868
TRTP	SA	-1.2368	0.1319	140	-9.37	<.0001	0.05	-1.4977 -0.9759
TRTP	THSm2.2	0.2939	0.09525	140	3.09	0.0024	0.05	0.1056 0.4822
TRTP	mCC	1.5416	0.1240	140	12.43	<.0001	0.05	1.2964 1.7868

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA mCC	-2.7784	0.1801	140	-15.43	<.0001	0.05	-3.1344 -2.4224
TRTP	THSm2.2 mCC	-1.2477	0.1560	140	-8.00	<.0001	0.05	-1.5561 -0.9393
TRTP	THSm2.2 SA	1.5307	0.1624	140	9.43	<.0001	0.05	1.2097 1.8518
TRTP	mCC SA	2.7784	0.1801	140	15.43	<.0001	0.05	2.4224 3.1344

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 4-ABP (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1830
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	193.6
<b>AIC (Smaller is Better)</b>	195.6
<b>AICC (Smaller is Better)</b>	195.6
<b>BIC (Smaller is Better)</b>	198.6

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	27.08	<.0001
<b>SEX</b>	1	150	8.29	0.0046
<b>UCPDGR1</b>	1	150	2.33	0.1287
<b>TRTP</b>	2	150	199.57	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	0.8215	0.06899	150	11.91	<.0001	0.05	0.6852	0.9579



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	0.6734	0.04948	150	13.61	<.0001	0.05	0.5757 0.7712
TRTP	mCC	2.2742	0.06722	150	33.83	<.0001	0.05	2.1414 2.4071
TRTP	SA	0.8215	0.06899	150	11.91	<.0001	0.05	0.6852 0.9579
TRTP	THSm2.2	0.6734	0.04948	150	13.61	<.0001	0.05	0.5757 0.7712
TRTP	mCC	2.2742	0.06722	150	33.83	<.0001	0.05	2.1414 2.4071

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.4527	0.09599	150	-15.13	<.0001	0.05	-1.6424 -1.2630
TRTP	THSm2.2	mCC	-1.6008	0.08309	150	-19.27	<.0001	0.05	-1.7650 -1.4366
TRTP	THSm2.2	SA	-0.1481	0.08498	150	-1.74	0.0834	0.05	-0.3160 0.01982
TRTP	mCC	SA	1.4527	0.09599	150	15.13	<.0001	0.05	1.2630 1.6424

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 4-ABP (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2903
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	248.1
<b>AIC (Smaller is Better)</b>	250.1
<b>AICC (Smaller is Better)</b>	250.1
<b>BIC (Smaller is Better)</b>	253.0

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	2.19	0.1413
<b>SEX</b>	1	141	2.15	0.1444
<b>UCPDGR1</b>	1	141	7.54	0.0068
<b>TRTP</b>	2	141	115.81	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	0.8845	0.08922	141	9.91	<.0001	0.05	0.7082	1.0609



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	0.7359	0.06525	141	11.28	<.0001	0.05	0.6069 0.8649
TRTP	mCC	2.2920	0.08470	141	27.06	<.0001	0.05	2.1246 2.4595
TRTP	SA	0.8845	0.08922	141	9.91	<.0001	0.05	0.7082 1.0609
TRTP	THSm2.2	0.7359	0.06525	141	11.28	<.0001	0.05	0.6069 0.8649
TRTP	mCC	2.2920	0.08470	141	27.06	<.0001	0.05	2.1246 2.4595

Differences of Least Squares Means								
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.4075	0.1224	141	-11.49	<.0001	0.05 -1.6496 -1.1654
TRTP	THSm2.2	mCC	-1.5561	0.1065	141	-14.61	<.0001	0.05 -1.7668 -1.3455
TRTP	THSm2.2	SA	-0.1486	0.1106	141	-1.34	0.1813	0.05 -0.3674 0.07011
TRTP	mCC	SA	1.4075	0.1224	141	11.49	<.0001	0.05 1.1654 1.6496

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 1-NA (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1435
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	157.0
<b>AIC (Smaller is Better)</b>	159.0
<b>AICC (Smaller is Better)</b>	159.0
<b>BIC (Smaller is Better)</b>	162.0

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	31.23	<.0001
<b>SEX</b>	1	150	6.16	0.0141
<b>UCPDGR1</b>	1	150	2.31	0.1308
<b>TRTP</b>	2	150	867.01	<.0001

**Least Squares Means  
Standard**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	<b>SA</b>	1.0901	0.06099	150	17.87	<.0001	0.05	0.9696	1.2106



		Least Squares Means							
Planned		Standard							
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	1.1363	0.04383	150	25.93	<.0001	0.05	1.0497	1.2229
TRTP	mCC	3.9926	0.05951	150	67.09	<.0001	0.05	3.8750	4.1102
TRTP	SA	1.0901	0.06099	150	17.87	<.0001	0.05	0.9696	1.2106
TRTP	THSm2.2	1.1363	0.04383	150	25.93	<.0001	0.05	1.0497	1.2229
TRTP	mCC	3.9926	0.05951	150	67.09	<.0001	0.05	3.8750	4.1102

		Differences of Least Squares Means							
Planned		Standard							
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.9025	0.08492	150	-34.18	<.0001	0.05	-3.0703 -2.7347
TRTP	THSm2.2	mCC	-2.8563	0.07358	150	-38.82	<.0001	0.05	-3.0017 -2.7109
TRTP	THSm2.2	SA	0.04618	0.07515	150	0.61	0.5398	0.05	-0.1023 0.1947
TRTP	mCC	SA	2.9025	0.08492	150	34.18	<.0001	0.05	2.7347 3.0703

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 1-NA (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.5115
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	327.9
<b>AIC (Smaller is Better)</b>	329.9
<b>AICC (Smaller is Better)</b>	329.9
<b>BIC (Smaller is Better)</b>	332.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	1.88	0.1727
<b>SEX</b>	1	141	1.51	0.2213
<b>UCPDGR1</b>	1	141	3.48	0.0642
<b>TRTP</b>	2	141	211.19	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	1.4748	0.1184	141	12.45	<.0001	0.05	1.2407 1.7089



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	1.2723	0.08677	141	14.66	<.0001	0.05	1.1008 1.4438
TRTP	mCC	4.0451	0.1124	141	35.98	<.0001	0.05	3.8228 4.2673
TRTP	SA	1.4748	0.1184	141	12.45	<.0001	0.05	1.2407 1.7089
TRTP	THSm2.2	1.2723	0.08677	141	14.66	<.0001	0.05	1.1008 1.4438
TRTP	mCC	4.0451	0.1124	141	35.98	<.0001	0.05	3.8228 4.2673

Differences of Least Squares Means								
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.5702	0.1625	141	-15.82	<.0001	0.05 -2.8914 -2.2491
TRTP	THSm2.2	mCC	-2.7727	0.1416	141	-19.58	<.0001	0.05 -3.0527 -2.4928
TRTP	THSm2.2	SA	-0.2025	0.1470	141	-1.38	0.1706	0.05 -0.4932 0.08819
TRTP	mCC	SA	2.5702	0.1625	141	15.82	<.0001	0.05 2.2491 2.8914

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 2-NA (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1090
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	115.8
<b>AIC (Smaller is Better)</b>	117.8
<b>AICC (Smaller is Better)</b>	117.9
<b>BIC (Smaller is Better)</b>	120.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	51.47	<.0001
<b>SEX</b>	1	150	19.38	<.0001
<b>UCPDGR1</b>	1	150	0.06	0.8020
<b>TRTP</b>	2	150	527.53	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	0.7642	0.05318	150	14.37	<.0001	0.05	0.6591 0.8693



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	0.6775	0.03811	150	17.78	<.0001	0.05	0.6022 0.7528
TRTP	mCC	2.6587	0.05191	150	51.22	<.0001	0.05	2.5561 2.7613
TRTP	SA	0.7642	0.05318	150	14.37	<.0001	0.05	0.6591 0.8693
TRTP	THSm2.2	0.6775	0.03811	150	17.78	<.0001	0.05	0.6022 0.7528
TRTP	mCC	2.6587	0.05191	150	51.22	<.0001	0.05	2.5561 2.7613

		Differences of Least Squares Means						
Planned		Planned		Standard				
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.8945	0.07419	150	-25.54	<.0001	0.05 -2.0411 -1.7479
TRTP	THSm2.2	mCC	-1.9812	0.06404	150	-30.94	<.0001	0.05 -2.1077 -1.8547
TRTP	THSm2.2	SA	-0.08667	0.06540	150	-1.33	0.1871	0.05 -0.2159 0.04255
TRTP	mCC	SA	1.8945	0.07419	150	25.54	<.0001	0.05 1.7479 2.0411



**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 2-NA (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2009
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	196.2
<b>AIC (Smaller is Better)</b>	198.2
<b>AICC (Smaller is Better)</b>	198.2
<b>BIC (Smaller is Better)</b>	201.1

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	8.32	0.0045
<b>SEX</b>	1	141	12.26	0.0006
<b>UCPDGR1</b>	1	141	1.67	0.1982
<b>TRTP</b>	2	141	243.22	<.0001

**Least Squares Means**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	<b>SA</b>	1.0135	0.07432	141	13.64	<.0001	0.05	0.8666	1.1604



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	0.8535	0.05426	141	15.73	<.0001	0.05	0.7462 0.9608
TRTP	mCC	2.7241	0.07048	141	38.65	<.0001	0.05	2.5848 2.8635
TRTP	SA	1.0135	0.07432	141	13.64	<.0001	0.05	0.8666 1.1604
TRTP	THSm2.2	0.8535	0.05426	141	15.73	<.0001	0.05	0.7462 0.9608
TRTP	mCC	2.7241	0.07048	141	38.65	<.0001	0.05	2.5848 2.8635

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.7106	0.1021	141	-16.76	<.0001	0.05	-1.9124 -1.5088
TRTP	THSm2.2	mCC	-1.8706	0.08856	141	-21.12	<.0001	0.05	-2.0457 -1.6955
TRTP	THSm2.2	SA	-0.1600	0.09213	141	-1.74	0.0846	0.05	-0.3421 0.02214
TRTP	mCC	SA	1.7106	0.1021	141	16.76	<.0001	0.05	1.5088 1.9124

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: o-tol (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	152

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	154
<b>Number of Observations Used</b>	152
<b>Number of Observations Not Used</b>	2

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2242
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	218.9
<b>AIC (Smaller is Better)</b>	220.9
<b>AICC (Smaller is Better)</b>	221.0
<b>BIC (Smaller is Better)</b>	223.9

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	146	54.29	<.0001
<b>SEX</b>	1	146	5.18	0.0244
<b>UCPDGR1</b>	1	146	0.37	0.5456
<b>TRTP</b>	2	146	41.37	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	3.9230	0.07604	146	51.59	<.0001	0.05	3.7727	4.0732



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.9515	0.05457	146	72.41	<.0001	0.05	3.8436 4.0593
TRTP	mCC	4.7561	0.07825	146	60.78	<.0001	0.05	4.6015 4.9108
TRTP	SA	3.9230	0.07604	146	51.59	<.0001	0.05	3.7727 4.0732
TRTP	THSm2.2	3.9515	0.05457	146	72.41	<.0001	0.05	3.8436 4.0593
TRTP	mCC	4.7561	0.07825	146	60.78	<.0001	0.05	4.6015 4.9108

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.8332	0.1088	146	-7.66	<.0001	0.05	-1.0483 -0.6181
TRTP	THSm2.2	mCC	-0.8047	0.09496	146	-8.47	<.0001	0.05	-0.9923 -0.6170
TRTP	THSm2.2	SA	0.02852	0.09334	146	0.31	0.7604	0.05	-0.1559 0.2130
TRTP	mCC	SA	0.8332	0.1088	146	7.66	<.0001	0.05	0.6181 1.0483

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: o-tol (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	143

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	146
<b>Number of Observations Used</b>	143
<b>Number of Observations Not Used</b>	3

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.7280
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	367.8
<b>AIC (Smaller is Better)</b>	369.8
<b>AICC (Smaller is Better)</b>	369.8
<b>BIC (Smaller is Better)</b>	372.7

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	137	26.61	<.0001
<b>SEX</b>	1	137	3.17	0.0773
<b>UCPDGR1</b>	1	137	0.13	0.7165
<b>TRTP</b>	2	137	4.57	0.0120

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.3840	0.1408	137	31.15	<.0001	0.05	4.1057 4.6623





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	4.2486	0.1030	137	41.26	<.0001	0.05	4.0450 4.4523
TRTP	mCC	4.7725	0.1410	137	33.84	<.0001	0.05	4.4936 5.0515
TRTP	SA	4.3840	0.1408	137	31.15	<.0001	0.05	4.1057 4.6623
TRTP	THSm2.2	4.2486	0.1030	137	41.26	<.0001	0.05	4.0450 4.4523
TRTP	mCC	4.7725	0.1410	137	33.84	<.0001	0.05	4.4936 5.0515

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.3885	0.1985	137	-1.96	0.0524	0.05 -0.7811 0.004061
TRTP	THSm2.2	mCC	-0.5239	0.1740	137	-3.01	0.0031	0.05 -0.8681 -0.1798
TRTP	THSm2.2	SA	-0.1354	0.1739	137	-0.78	0.4377	0.05 -0.4794 0.2086
TRTP	mCC	SA	0.3885	0.1985	137	1.96	0.0524	0.05 -0.00406 0.7811

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: CEMA (ng/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1004
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	103.7
<b>AIC (Smaller is Better)</b>	105.7
<b>AICC (Smaller is Better)</b>	105.8
<b>BIC (Smaller is Better)</b>	108.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	266.94	<.0001
<b>SEX</b>	1	150	1.34	0.2492
<b>UCPDGR1</b>	1	150	0.31	0.5793
<b>TRTP</b>	2	150	445.18	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	2.4493	0.05086	150	48.16	<.0001	0.05	2.3488	2.5498



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.5172	0.03651	150	68.94	<.0001	0.05	2.4451 2.5894
TRTP	mCC	4.2148	0.04979	150	84.65	<.0001	0.05	4.1164 4.3131
TRTP	SA	2.4493	0.05086	150	48.16	<.0001	0.05	2.3488 2.5498
TRTP	THSm2.2	2.5172	0.03651	150	68.94	<.0001	0.05	2.4451 2.5894
TRTP	mCC	4.2148	0.04979	150	84.65	<.0001	0.05	4.1164 4.3131

Differences of Least Squares Means										
Planned		Planned	Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-1.7655	0.07093	150	-24.89	<.0001	0.05	-1.9056	-1.6253
TRTP	THSm2.2	mCC	-1.6975	0.06146	150	-27.62	<.0001	0.05	-1.8190	-1.5761
TRTP	THSm2.2	SA	0.06791	0.06242	150	1.09	0.2784	0.05	-0.05543	0.1912
TRTP	mCC	SA	1.7655	0.07093	150	24.89	<.0001	0.05	1.6253	1.9056

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: CEMA (ng/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.4790
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	318.9
<b>AIC (Smaller is Better)</b>	320.9
<b>AICC (Smaller is Better)</b>	320.9
<b>BIC (Smaller is Better)</b>	323.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	24.85	<.0001
<b>SEX</b>	1	141	0.16	0.6939
<b>UCPDGR1</b>	1	141	3.10	0.0802
<b>TRTP</b>	2	141	172.03	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	2.1452	0.1142	141	18.79	<.0001	0.05	1.9195 2.3709



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.0564	0.08357	141	24.61	<.0001	0.05 1.8912 2.2216
TRTP	mCC	4.4502	0.1088	141	40.90	<.0001	0.05 4.2351 4.6653
TRTP	SA	2.1452	0.1142	141	18.79	<.0001	0.05 1.9195 2.3709
TRTP	THSm2.2	2.0564	0.08357	141	24.61	<.0001	0.05 1.8912 2.2216
TRTP	mCC	4.4502	0.1088	141	40.90	<.0001	0.05 4.2351 4.6653

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-2.3050	0.1570	141	-14.68	<.0001	0.05	-2.6153 -1.9947
TRTP	THSm2.2	mCC	-2.3938	0.1367	141	-17.51	<.0001	0.05	-2.6641 -2.1235
TRTP	THSm2.2	SA	-0.08881	0.1411	141	-0.63	0.5302	0.05	-0.3678 0.1902
TRTP	mCC	SA	2.3050	0.1570	141	14.68	<.0001	0.05	1.9947 2.6153

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: HEMA (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1136
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	122.7
<b>AIC (Smaller is Better)</b>	124.7
<b>AICC (Smaller is Better)</b>	124.8
<b>BIC (Smaller is Better)</b>	127.7

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	302.03	<.0001
<b>SEX</b>	1	150	8.14	0.0049
<b>UCPDGR1</b>	1	150	0.78	0.3776
<b>TRTP</b>	2	150	62.59	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	7.0229	0.05411	150	129.78	<.0001	0.05	6.9159	7.1298



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	7.0441	0.03888	150	181.19	<.0001	0.05	6.9673 7.1209
TRTP	mCC	7.7232	0.05298	150	145.77	<.0001	0.05	7.6185 7.8279
TRTP	SA	7.0229	0.05411	150	129.78	<.0001	0.05	6.9159 7.1298
TRTP	THSm2.2	7.0441	0.03888	150	181.19	<.0001	0.05	6.9673 7.1209
TRTP	mCC	7.7232	0.05298	150	145.77	<.0001	0.05	7.6185 7.8279

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA mCC	-0.7004	0.07544	150	-9.28	<.0001	0.05	-0.8494 -0.5513
TRTP	THSm2.2 mCC	-0.6791	0.06536	150	-10.39	<.0001	0.05	-0.8083 -0.5500
TRTP	THSm2.2 SA	0.02124	0.06638	150	0.32	0.7495	0.05	-0.1099 0.1524
TRTP	mCC SA	0.7004	0.07544	150	9.28	<.0001	0.05	0.5513 0.8494

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: HEMA (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2362
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	219.7
<b>AIC (Smaller is Better)</b>	221.7
<b>AICC (Smaller is Better)</b>	221.8
<b>BIC (Smaller is Better)</b>	224.7

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	126.44	<.0001
<b>SEX</b>	1	141	1.94	0.1661
<b>UCPDGR1</b>	1	141	0.06	0.7995
<b>TRTP</b>	2	141	41.38	<.0001

**Least Squares Means  
Standard**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	<b>SA</b>	7.4359	0.08017	141	92.75	<.0001	0.05	7.2775	7.5944



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	7.4442	0.05880	141	126.61	<.0001	0.05 7.3279 7.5604
TRTP	mCC	8.2554	0.07642	141	108.03	<.0001	0.05 8.1043 8.4065
TRTP	SA	7.4359	0.08017	141	92.75	<.0001	0.05 7.2775 7.5944
TRTP	THSm2.2	7.4442	0.05880	141	126.61	<.0001	0.05 7.3279 7.5604
TRTP	mCC	8.2554	0.07642	141	108.03	<.0001	0.05 8.1043 8.4065

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.8195	0.1102	141	-7.43	<.0001	0.05	-1.0374 -0.6015
TRTP	THSm2.2	mCC	-0.8113	0.0960	141	-8.45	<.0001	0.05	-1.0011 -0.6214
TRTP	THSm2.2	SA	0.0082	0.0991	141	0.08	0.9341	0.05	-0.1878 0.2043
TRTP	mCC	SA	0.8195	0.1102	141	7.43	<.0001	0.05	0.6015 1.0374

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: B[a]P (fg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1764
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	188.6
<b>AIC (Smaller is Better)</b>	190.6
<b>AICC (Smaller is Better)</b>	190.6
<b>BIC (Smaller is Better)</b>	193.6

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	40.15	<.0001
<b>SEX</b>	1	150	16.27	<.0001
<b>UCPDGR1</b>	1	150	0.05	0.8163
<b>TRTP</b>	2	150	150.87	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	2.9333	0.06757	150	43.41	<.0001	0.05	2.7998	3.0668



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	3.0341	0.04849	150	62.58	<.0001	0.05	2.9383 3.1299
TRTP	mCC	4.3258	0.06604	150	65.51	<.0001	0.05	4.1953 4.4563
TRTP	SA	2.9333	0.06757	150	43.41	<.0001	0.05	2.7998 3.0668
TRTP	THSm2.2	3.0341	0.04849	150	62.58	<.0001	0.05	2.9383 3.1299
TRTP	mCC	4.3258	0.06604	150	65.51	<.0001	0.05	4.1953 4.4563

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.3926	0.09429	150	-14.77	<.0001	0.05 -1.5789 -1.2062
TRTP	THSm2.2	mCC	-1.2917	0.08146	150	-15.86	<.0001	0.05 -1.4527 -1.1307
TRTP	THSm2.2	SA	0.1008	0.08309	150	1.21	0.2268	0.05 -0.06333 0.2650
TRTP	mCC	SA	1.3926	0.09429	150	14.77	<.0001	0.05 1.2062 1.5789



**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: B[a]P (fg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.3892
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	290.0
<b>AIC (Smaller is Better)</b>	292.0
<b>AICC (Smaller is Better)</b>	292.0
<b>BIC (Smaller is Better)</b>	294.9

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	21.46	<.0001
<b>SEX</b>	1	141	9.19	0.0029
<b>UCPDGR1</b>	1	141	1.52	0.2199
<b>TRTP</b>	2	141	45.23	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	3.4373	0.1033	141	33.29	<.0001	0.05	3.2331 3.6414



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.3977	0.07559	141	44.95	<.0001	0.05	3.2483 3.5471
TRTP	mCC	4.5035	0.09809	141	45.91	<.0001	0.05	4.3096 4.6974
TRTP	SA	3.4373	0.1033	141	33.29	<.0001	0.05	3.2331 3.6414
TRTP	THSm2.2	3.3977	0.07559	141	44.95	<.0001	0.05	3.2483 3.5471
TRTP	mCC	4.5035	0.09809	141	45.91	<.0001	0.05	4.3096 4.6974

Differences of Least Squares Means									
	Planned	Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.0662	0.1419	141	-7.52	<.0001	0.05	-1.3467 -0.7858
TRTP	THSm2.2	mCC	-1.1058	0.1233	141	-8.97	<.0001	0.05	-1.3496 -0.8620
TRTP	THSm2.2	SA	-0.03958	0.1281	141	-0.31	0.7578	0.05	-0.2928 0.2136
TRTP	mCC	SA	1.0662	0.1419	141	7.52	<.0001	0.05	0.7858 1.3467

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: HMPMA (ng/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1156
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	124.5
<b>AIC (Smaller is Better)</b>	126.5
<b>AICC (Smaller is Better)</b>	126.6
<b>BIC (Smaller is Better)</b>	129.5

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	16.63	<.0001
<b>SEX</b>	1	150	21.07	<.0001
<b>UCPDGR1</b>	1	150	0.18	0.6760
<b>TRTP</b>	2	150	95.95	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.7473	0.05455	150	87.02	<.0001	0.05	4.6395	4.8551



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	4.8386	0.03917	150	123.53	<.0001	0.05	4.7612 4.9160
TRTP	mCC	5.6611	0.05343	150	105.96	<.0001	0.05	5.5555 5.7667
TRTP	SA	4.7473	0.05455	150	87.02	<.0001	0.05	4.6395 4.8551
TRTP	THSm2.2	4.8386	0.03917	150	123.53	<.0001	0.05	4.7612 4.9160
TRTP	mCC	5.6611	0.05343	150	105.96	<.0001	0.05	5.5555 5.7667

Differences of Least Squares Means									
Planned		Standard							
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.9138	0.07610	150	-12.01	<.0001	0.05	-1.0641 -0.7634
TRTP	THSm2.2	mCC	-0.8225	0.06594	150	-12.47	<.0001	0.05	-0.9528 -0.6922
TRTP	THSm2.2	SA	0.09125	0.06696	150	1.36	0.1750	0.05	-0.04106 0.2236
TRTP	mCC	SA	0.9138	0.07610	150	12.01	<.0001	0.05	0.7634 1.0641

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: HMPMA (ng/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1651
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	168.4
<b>AIC (Smaller is Better)</b>	170.4
<b>AICC (Smaller is Better)</b>	170.4
<b>BIC (Smaller is Better)</b>	173.3

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	2.32	0.1299
<b>SEX</b>	1	141	68.21	<.0001
<b>UCPDGR1</b>	1	141	0.59	0.4426
<b>TRTP</b>	2	141	40.35	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	5.1112	0.06712	141	76.15	<.0001	0.05	4.9785 5.2439





		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	5.0704	0.04910	141	103.28	<.0001	0.05 4.9733 5.1675
TRTP	mCC	5.7563	0.06393	141	90.05	<.0001	0.05 5.6299 5.8827
TRTP	SA	5.1112	0.06712	141	76.15	<.0001	0.05 4.9785 5.2439
TRTP	THSm2.2	5.0704	0.04910	141	103.28	<.0001	0.05 4.9733 5.1675
TRTP	mCC	5.7563	0.06393	141	90.05	<.0001	0.05 5.6299 5.8827

Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower	Upper
TRTP	SA	mCC	-0.6451	0.09217	141	-7.00	<.0001	0.05	-0.8273 -0.4629
TRTP	THSm2.2	mCC	-0.6859	0.08039	141	-8.53	<.0001	0.05	-0.8448 -0.5270
TRTP	THSm2.2	SA	-0.04079	0.08303	141	-0.49	0.6240	0.05	-0.2049 0.1234
TRTP	mCC	SA	0.6451	0.09217	141	7.00	<.0001	0.05	0.4629 0.8273

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: S-BMA (pg/mg creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	0.09009
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	87.0
<b>AIC (Smaller is Better)</b>	89.0
<b>AICC (Smaller is Better)</b>	89.0
<b>BIC (Smaller is Better)</b>	92.0

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	125.76	<.0001
<b>SEX</b>	1	150	17.20	<.0001
<b>UCPDGR1</b>	1	150	1.40	0.2391
<b>TRTP</b>	2	150	3.06	0.0498

**Least Squares Means**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	SA	7.8947	0.04836	150	163.24	<.0001	0.05	7.7991	7.9902



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	7.8401	0.03463	150	226.37	<.0001	0.05 7.7717 7.9086
TRTP	mCC	7.9847	0.04777	150	167.15	<.0001	0.05 7.8903 8.0791
TRTP	SA	7.8947	0.04836	150	163.24	<.0001	0.05 7.7991 7.9902
TRTP	THSm2.2	7.8401	0.03463	150	226.37	<.0001	0.05 7.7717 7.9086
TRTP	mCC	7.9847	0.04777	150	167.15	<.0001	0.05 7.8903 8.0791

Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.09004	0.06823	150	-1.32	0.1890	0.05	-0.2249 0.04478
TRTP	THSm2.2	mCC	-0.1446	0.05850	150	-2.47	0.0146	0.05	-0.2602 -0.02901
TRTP	THSm2.2	SA	-0.05457	0.05944	150	-0.92	0.3601	0.05	-0.1720 0.06287
TRTP	mCC	SA	0.09004	0.06823	150	1.32	0.1890	0.05	-0.04478 0.2249

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: S-BMA (pg/mg creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.3395
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	269.8
<b>AIC (Smaller is Better)</b>	271.8
<b>AICC (Smaller is Better)</b>	271.9
<b>BIC (Smaller is Better)</b>	274.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	58.32	<.0001
<b>SEX</b>	1	141	2.30	0.1312
<b>UCPDGR1</b>	1	141	0.00	0.9837
<b>TRTP</b>	2	141	1.04	0.3546

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	8.2028	0.09669	141	84.83	<.0001	0.05	8.0117	8.3940



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	8.1147	0.07041	141	115.25	<.0001	0.05 7.9755 8.2539
TRTP	mCC	8.0093	0.09277	141	86.34	<.0001	0.05 7.8259 8.1927
TRTP	SA	8.2028	0.09669	141	84.83	<.0001	0.05 8.0117 8.3940
TRTP	THSm2.2	8.1147	0.07041	141	115.25	<.0001	0.05 7.9755 8.2539
TRTP	mCC	8.0093	0.09277	141	86.34	<.0001	0.05 7.8259 8.1927

		Differences of Least Squares Means					
Planned		Standard					
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t  Alpha Lower Upper
TRTP	SA	mCC	0.1935	0.1346	141	1.44	0.1525 0.05 -0.07247 0.4596
TRTP	THSm2.2	mCC	0.1054	0.1156	141	0.91	0.3634 0.05 -0.1231 0.3340
TRTP	THSm2.2	SA	-0.08813	0.1196	141	-0.74	0.4625 0.05 -0.3246 0.1484
TRTP	mCC	SA	-0.1935	0.1346	141	-1.44	0.1525 0.05 -0.4596 0.07247

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: NEQ (mg/g creat), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1767
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	188.4
<b>AIC (Smaller is Better)</b>	190.4
<b>AICC (Smaller is Better)</b>	190.4
<b>BIC (Smaller is Better)</b>	193.4

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	85.11	<.0001
<b>SEX</b>	1	150	0.45	0.5051
<b>UCPDGR1</b>	1	150	0.36	0.5488
<b>TRTP</b>	2	150	1063.05	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	-1.8358	0.06749	150	-27.20	<.0001	0.05	-1.9692	-1.7025



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	1.8013	0.04845	150	37.18	<.0001	0.05	1.7055 1.8970
TRTP	mCC	1.6488	0.06604	150	24.97	<.0001	0.05	1.5183 1.7793
TRTP	SA	-1.8358	0.06749	150	-27.20	<.0001	0.05	-1.9692 -1.7025
TRTP	THSm2.2	1.8013	0.04845	150	37.18	<.0001	0.05	1.7055 1.8970
TRTP	mCC	1.6488	0.06604	150	24.97	<.0001	0.05	1.5183 1.7793

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-3.4846	0.09410	150	-37.03	<.0001	0.05 -3.6705 -3.2987
TRTP	THSm2.2	mCC	0.1525	0.08153	150	1.87	0.0634	0.05 -0.00863 0.3136
TRTP	THSm2.2	SA	3.6371	0.08286	150	43.89	<.0001	0.05 3.4733 3.8008
TRTP	mCC	SA	3.4846	0.09410	150	37.03	<.0001	0.05 3.2987 3.6705

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: NEQ (mg/g creat), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	1.3306
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	462.9
<b>AIC (Smaller is Better)</b>	464.9
<b>AICC (Smaller is Better)</b>	464.9
<b>BIC (Smaller is Better)</b>	467.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	16.32	<.0001
<b>SEX</b>	1	141	0.50	0.4811
<b>UCPDGR1</b>	1	141	0.51	0.4774
<b>TRTP</b>	2	141	81.81	<.0001

**Least Squares Means  
Standard**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	SA	-0.9197	0.1906	141	-4.83	<.0001	0.05	-1.2964	-0.5430



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	1.9040	0.1394	141	13.66	<.0001	0.05	1.6285 2.1795
TRTP	mCC	1.8687	0.1813	141	10.31	<.0001	0.05	1.5102 2.2272
TRTP	SA	-0.9197	0.1906	141	-4.83	<.0001	0.05	-1.2964 -0.5430
TRTP	THSm2.2	1.9040	0.1394	141	13.66	<.0001	0.05	1.6285 2.1795
TRTP	mCC	1.8687	0.1813	141	10.31	<.0001	0.05	1.5102 2.2272

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.7884	0.2619	141	-10.65	<.0001	0.05 -3.3061 -2.2707
TRTP	THSm2.2	mCC	0.03532	0.2279	141	0.16	0.8770	0.05 -0.4152 0.4858
TRTP	THSm2.2	SA	2.8237	0.2357	141	11.98	<.0001	0.05 2.3577 3.2898
TRTP	mCC	SA	2.7884	0.2619	141	10.65	<.0001	0.05 2.2707 3.3061

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: MHBMA (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.3289
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	282.7
<b>AIC (Smaller is Better)</b>	284.7
<b>AICC (Smaller is Better)</b>	284.8
<b>BIC (Smaller is Better)</b>	287.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	25.21	<.0001
<b>SEX</b>	1	150	1.02	0.3149
<b>UCPDGR1</b>	1	150	0.01	0.9282
<b>TRTP</b>	2	150	192.02	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.6044	0.09214	150	49.97	<.0001	0.05	4.4223	4.7865



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.5573	0.06609	150	68.95	<.0001	0.05	4.4267 4.6879
TRTP	mCC	6.6254	0.09030	150	73.37	<.0001	0.05	6.4469 6.8038
TRTP	SA	4.6044	0.09214	150	49.97	<.0001	0.05	4.4223 4.7865
TRTP	THSm2.2	4.5573	0.06609	150	68.95	<.0001	0.05	4.4267 4.6879
TRTP	mCC	6.6254	0.09030	150	73.37	<.0001	0.05	6.4469 6.8038

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.0210	0.1288	150	-15.69	<.0001	0.05	-2.2754 -1.7665
TRTP	THSm2.2	mCC	-2.0680	0.1115	150	-18.56	<.0001	0.05	-2.2883 -1.8478
TRTP	THSm2.2	SA	-0.04707	0.1130	150	-0.42	0.6776	0.05	-0.2703 0.1762
TRTP	mCC	SA	2.0210	0.1288	150	15.69	<.0001	0.05	1.7665 2.2754



**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: MHBMA (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.4274
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	303.8
<b>AIC (Smaller is Better)</b>	305.8
<b>AICC (Smaller is Better)</b>	305.9
<b>BIC (Smaller is Better)</b>	308.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	41.95	<.0001
<b>SEX</b>	1	141	12.22	0.0006
<b>UCPDGR1</b>	1	141	1.30	0.2555
<b>TRTP</b>	2	141	89.65	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	5.0505	0.1079	141	46.80	<.0001	0.05	4.8372 5.2638



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	5.0744	0.07893	141	64.29	<.0001	0.05 4.9183 5.2304
TRTP	mCC	6.6827	0.1030	141	64.89	<.0001	0.05 6.4791 6.8863
TRTP	SA	5.0505	0.1079	141	46.80	<.0001	0.05 4.8372 5.2638
TRTP	THSm2.2	5.0744	0.07893	141	64.29	<.0001	0.05 4.9183 5.2304
TRTP	mCC	6.6827	0.1030	141	64.89	<.0001	0.05 6.4791 6.8863

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-1.6322	0.1487	141	-10.98	<.0001	0.05	-1.9261 -1.3383
TRTP	THSm2.2	mCC	-1.6083	0.1294	141	-12.43	<.0001	0.05	-1.8642 -1.3525
TRTP	THSm2.2	SA	0.02386	0.1333	141	0.18	0.8582	0.05	-0.2396 0.2874
TRTP	mCC	SA	1.6322	0.1487	141	10.98	<.0001	0.05	1.3383 1.9261

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 3-HPMA (ug), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1233
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	134.2
<b>AIC (Smaller is Better)</b>	136.2
<b>AICC (Smaller is Better)</b>	136.2
<b>BIC (Smaller is Better)</b>	139.2

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	39.09	<.0001
<b>SEX</b>	1	150	13.20	0.0004
<b>UCPDGR1</b>	1	150	0.47	0.4938
<b>TRTP</b>	2	150	114.68	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	5.3969	0.05639	150	95.71	<.0001	0.05	5.2855	5.5083



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	5.8558	0.04047	150	144.71	<.0001	0.05	5.7759 5.9358
TRTP	mCC	6.5747	0.05538	150	118.71	<.0001	0.05	6.4653 6.6842
TRTP	SA	5.3969	0.05639	150	95.71	<.0001	0.05	5.2855 5.5083
TRTP	THSm2.2	5.8558	0.04047	150	144.71	<.0001	0.05	5.7759 5.9358
TRTP	mCC	6.5747	0.05538	150	118.71	<.0001	0.05	6.4653 6.6842

		Differences of Least Squares Means						
Planned		Planned		Standard				
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.1778	0.07888	150	-14.93	<.0001	0.05 -1.3336 -1.0219
TRTP	THSm2.2	mCC	-0.7189	0.06826	150	-10.53	<.0001	0.05 -0.8538 -0.5840
TRTP	THSm2.2	SA	0.4589	0.06920	150	6.63	<.0001	0.05 0.3222 0.5956
TRTP	mCC	SA	1.1778	0.07888	150	14.93	<.0001	0.05 1.0219 1.3336

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 3-HPMA (ug), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1610
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	164.8
<b>AIC (Smaller is Better)</b>	166.8
<b>AICC (Smaller is Better)</b>	166.8
<b>BIC (Smaller is Better)</b>	169.7

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	25.72	<.0001
<b>SEX</b>	1	141	15.50	0.0001
<b>UCPDGR1</b>	1	141	0.89	0.3474
<b>TRTP</b>	2	141	51.79	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	5.7229	0.06618	141	86.47	<.0001	0.05	5.5920	5.8537





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	6.0543	0.04844	141	125.00	<.0001	0.05	5.9585 6.1500
TRTP	mCC	6.6300	0.06329	141	104.75	<.0001	0.05	6.5049 6.7551
TRTP	SA	5.7229	0.06618	141	86.47	<.0001	0.05	5.5920 5.8537
TRTP	THSm2.2	6.0543	0.04844	141	125.00	<.0001	0.05	5.9585 6.1500
TRTP	mCC	6.6300	0.06329	141	104.75	<.0001	0.05	6.5049 6.7551

		Differences of Least Squares Means						
Planned		Planned		Standard				
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.9071	0.09118	141	-9.95	<.0001	0.05 -1.0874 -0.7269
TRTP	THSm2.2	mCC	-0.5757	0.07949	141	-7.24	<.0001	0.05 -0.7328 -0.4186
TRTP	THSm2.2	SA	0.3314	0.08180	141	4.05	<.0001	0.05 0.1697 0.4931
TRTP	mCC	SA	0.9071	0.09118	141	9.95	<.0001	0.05 0.7269 1.0874

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: S-PMA (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2435
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	237.7
<b>AIC (Smaller is Better)</b>	239.7
<b>AICC (Smaller is Better)</b>	239.7
<b>BIC (Smaller is Better)</b>	242.7

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	124.00	<.0001
<b>SEX</b>	1	150	2.02	0.1577
<b>UCPDGR1</b>	1	150	0.02	0.8792
<b>TRTP</b>	2	150	330.62	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.8387	0.07922	150	61.08	<.0001	0.05	4.6822	4.9952



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.9236	0.05687	150	86.58	<.0001	0.05 4.8112 5.0359
TRTP	mCC	7.2056	0.07758	150	92.88	<.0001	0.05 7.0523 7.3589
TRTP	SA	4.8387	0.07922	150	61.08	<.0001	0.05 4.6822 4.9952
TRTP	THSm2.2	4.9236	0.05687	150	86.58	<.0001	0.05 4.8112 5.0359
TRTP	mCC	7.2056	0.07758	150	92.88	<.0001	0.05 7.0523 7.3589

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-2.3669	0.1105	150	-21.41	<.0001	0.05	-2.5853 -2.1485
TRTP	THSm2.2	mCC	-2.2820	0.09575	150	-23.83	<.0001	0.05	-2.4712 -2.0928
TRTP	THSm2.2	SA	0.08488	0.09722	150	0.87	0.3840	0.05	-0.1072 0.2770
TRTP	mCC	SA	2.3669	0.1105	150	21.41	<.0001	0.05	2.1485 2.5853

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: S-PMA (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.4081
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	297.3
<b>AIC (Smaller is Better)</b>	299.3
<b>AICC (Smaller is Better)</b>	299.4
<b>BIC (Smaller is Better)</b>	302.3

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	81.23	<.0001
<b>SEX</b>	1	141	0.21	0.6474
<b>UCPDGR1</b>	1	141	2.17	0.1428
<b>TRTP</b>	2	141	144.05	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	5.1156	0.1054	141	48.54	<.0001	0.05	4.9072 5.3239



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	5.1314	0.07710	141	66.55	<.0001	0.05 4.9790 5.2838
TRTP	mCC	7.1232	0.1005	141	70.90	<.0001	0.05 6.9246 7.3218
TRTP	SA	5.1156	0.1054	141	48.54	<.0001	0.05 4.9072 5.3239
TRTP	THSm2.2	5.1314	0.07710	141	66.55	<.0001	0.05 4.9790 5.2838
TRTP	mCC	7.1232	0.1005	141	70.90	<.0001	0.05 6.9246 7.3218

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower	Upper
TRTP	SA	mCC	-2.0077	0.1450	141	-13.85	<.0001	0.05	-2.2942 -1.7211
TRTP	THSm2.2	mCC	-1.9918	0.1262	141	-15.78	<.0001	0.05	-2.2413 -1.7423
TRTP	THSm2.2	SA	0.01585	0.1302	141	0.12	0.9033	0.05	-0.2416 0.2733
TRTP	mCC	SA	2.0077	0.1450	141	13.85	<.0001	0.05	1.7211 2.2942

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Total NNAL (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.09272
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	92.1
<b>AIC (Smaller is Better)</b>	94.1
<b>AICC (Smaller is Better)</b>	94.1
<b>BIC (Smaller is Better)</b>	97.1

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	505.97	<.0001
<b>SEX</b>	1	150	9.49	0.0025
<b>UCPDGR1</b>	1	150	4.04	0.0463
<b>TRTP</b>	2	150	148.99	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	3.6217	0.04896	150	73.97	<.0001	0.05	3.5250	3.7185



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.7596	0.03509	150	107.15	<.0001	0.05	3.6902 3.8289
TRTP	mCC	4.6616	0.04785	150	97.42	<.0001	0.05	4.5670 4.7561
TRTP	SA	3.6217	0.04896	150	73.97	<.0001	0.05	3.5250 3.7185
TRTP	THSm2.2	3.7596	0.03509	150	107.15	<.0001	0.05	3.6902 3.8289
TRTP	mCC	4.6616	0.04785	150	97.42	<.0001	0.05	4.5670 4.7561

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.0398	0.06820	150	-15.25	<.0001	0.05	-1.1746 -0.9051
TRTP	THSm2.2	mCC	-0.9020	0.05906	150	-15.27	<.0001	0.05	-1.0187 -0.7853
TRTP	THSm2.2	SA	0.1378	0.06005	150	2.29	0.0231	0.05	0.01916 0.2565
TRTP	mCC	SA	1.0398	0.06820	150	15.25	<.0001	0.05	0.9051 1.1746

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Total NNAL (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.5762
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	345.2
<b>AIC (Smaller is Better)</b>	347.2
<b>AICC (Smaller is Better)</b>	347.2
<b>BIC (Smaller is Better)</b>	350.1

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	43.25	<.0001
<b>SEX</b>	1	141	4.70	0.0318
<b>UCPDGR1</b>	1	141	6.00	0.0155
<b>TRTP</b>	2	141	66.53	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	2.8004	0.1256	141	22.30	<.0001	0.05	2.5522 3.0486



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.2246	0.09165	141	35.18	<.0001	0.05	3.0434 3.4058
TRTP	mCC	4.6420	0.1194	141	38.88	<.0001	0.05	4.4060 4.8780
TRTP	SA	2.8004	0.1256	141	22.30	<.0001	0.05	2.5522 3.0486
TRTP	THSm2.2	3.2246	0.09165	141	35.18	<.0001	0.05	3.0434 3.4058
TRTP	mCC	4.6420	0.1194	141	38.88	<.0001	0.05	4.4060 4.8780

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.8416	0.1722	141	-10.69	<.0001	0.05	-2.1821 -1.5011
TRTP	THSm2.2	mCC	-1.4174	0.1500	141	-9.45	<.0001	0.05	-1.7141 -1.1208
TRTP	THSm2.2	SA	0.4242	0.1552	141	2.73	0.0071	0.05	0.1174 0.7310
TRTP	mCC	SA	1.8416	0.1722	141	10.69	<.0001	0.05	1.5011 2.1821

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Total 1-OHP (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1534
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	166.9
<b>AIC (Smaller is Better)</b>	168.9
<b>AICC (Smaller is Better)</b>	168.9
<b>BIC (Smaller is Better)</b>	171.9

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	51.76	<.0001
<b>SEX</b>	1	150	1.81	0.1802
<b>UCPDGR1</b>	1	150	0.74	0.3896
<b>TRTP</b>	2	150	101.46	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	3.9429	0.06293	150	62.65	<.0001	0.05	3.8186	4.0673



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	3.9983	0.04513	150	88.60	<.0001	0.05	3.9092 4.0875
TRTP	mCC	4.9957	0.06159	150	81.11	<.0001	0.05	4.8740 5.1174
TRTP	SA	3.9429	0.06293	150	62.65	<.0001	0.05	3.8186 4.0673
TRTP	THSm2.2	3.9983	0.04513	150	88.60	<.0001	0.05	3.9092 4.0875
TRTP	mCC	4.9957	0.06159	150	81.11	<.0001	0.05	4.8740 5.1174

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.0528	0.08786	150	-11.98	<.0001	0.05 -1.2264 -0.8792
TRTP	THSm2.2	mCC	-0.9974	0.07601	150	-13.12	<.0001	0.05 -1.1476 -0.8472
TRTP	THSm2.2	SA	0.05539	0.07719	150	0.72	0.4742	0.05 -0.09714 0.2079
TRTP	mCC	SA	1.0528	0.08786	150	11.98	<.0001	0.05 0.8792 1.2264



**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: Total 1-OHP (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1944
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	191.3
<b>AIC (Smaller is Better)</b>	193.3
<b>AICC (Smaller is Better)</b>	193.4
<b>BIC (Smaller is Better)</b>	196.3

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	15.05	0.0002
<b>SEX</b>	1	141	3.62	0.0592
<b>UCPDGR1</b>	1	141	3.09	0.0811
<b>TRTP</b>	2	141	27.56	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.6103	0.07277	141	63.35	<.0001	0.05	4.4665 4.7542



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.5646	0.05323	141	85.76	<.0001	0.05 4.4594 4.6698
TRTP	mCC	5.1835	0.06944	141	74.65	<.0001	0.05 5.0462 5.3207
TRTP	SA	4.6103	0.07277	141	63.35	<.0001	0.05 4.4665 4.7542
TRTP	THSm2.2	4.5646	0.05323	141	85.76	<.0001	0.05 4.4594 4.6698
TRTP	mCC	5.1835	0.06944	141	74.65	<.0001	0.05 5.0462 5.3207

Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower	Upper
TRTP	SA	mCC	-0.5731	0.1002	141	-5.72	<.0001	0.05	-0.7713 -0.3750
TRTP	THSm2.2	mCC	-0.6189	0.08724	141	-7.09	<.0001	0.05	-0.7913 -0.4464
TRTP	THSm2.2	SA	-0.04575	0.08989	141	-0.51	0.6116	0.05	-0.2235 0.1320
TRTP	mCC	SA	0.5731	0.1002	141	5.72	<.0001	0.05	0.3750 0.7713

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: NNN (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.3558
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	294.9
<b>AIC (Smaller is Better)</b>	296.9
<b>AICC (Smaller is Better)</b>	297.0
<b>BIC (Smaller is Better)</b>	299.9

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	172.90	<.0001
<b>SEX</b>	1	150	0.12	0.7323
<b>UCPDGR1</b>	1	150	2.10	0.1494
<b>TRTP</b>	2	150	326.49	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	-1.7082	0.09576	150	-17.84	<.0001	0.05	-1.8974	-1.5190



		Least Squares Means							
Planned		Standard							
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	0.3101	0.06875	150	4.51	<.0001	0.05	0.1743	0.4459
TRTP	mCC	1.6809	0.09383	150	17.91	<.0001	0.05	1.4955	1.8663
TRTP	SA	-1.7082	0.09576	150	-17.84	<.0001	0.05	-1.8974	-1.5190
TRTP	THSm2.2	0.3101	0.06875	150	4.51	<.0001	0.05	0.1743	0.4459
TRTP	mCC	1.6809	0.09383	150	17.91	<.0001	0.05	1.4955	1.8663

		Differences of Least Squares Means							
Planned		Standard							
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-3.3891	0.1335	150	-25.38	<.0001	0.05	-3.6530 -3.1253
TRTP	THSm2.2	mCC	-1.3708	0.1158	150	-11.84	<.0001	0.05	-1.5997 -1.1420
TRTP	THSm2.2	SA	2.0183	0.1175	150	17.17	<.0001	0.05	1.7860 2.2506
TRTP	mCC	SA	3.3891	0.1335	150	25.38	<.0001	0.05	3.1253 3.6530

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: NNN (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	146

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	146
<b>Number of Observations Used</b>	146
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.5826
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	345.6
<b>AIC (Smaller is Better)</b>	347.6
<b>AICC (Smaller is Better)</b>	347.6
<b>BIC (Smaller is Better)</b>	350.5

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	140	113.34	<.0001
<b>SEX</b>	1	140	0.01	0.9272
<b>UCPDGR1</b>	1	140	1.38	0.2420
<b>TRTP</b>	2	140	124.80	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	-1.1422	0.1278 140	-8.94	<.0001	0.05	-1.3949	-0.8895





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	0.4044	0.09219	140	4.39	<.0001	0.05	0.2222 0.5867
TRTP	mCC	1.6109	0.1202	140	13.40	<.0001	0.05	1.3731 1.8486
TRTP	SA	-1.1422	0.1278	140	-8.94	<.0001	0.05	-1.3949 -0.8895
TRTP	THSm2.2	0.4044	0.09219	140	4.39	<.0001	0.05	0.2222 0.5867
TRTP	mCC	1.6109	0.1202	140	13.40	<.0001	0.05	1.3731 1.8486

Differences of Least Squares Means								
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.7531	0.1744	140	-15.78	<.0001	0.05 -3.0979 -2.4083
TRTP	THSm2.2	mCC	-1.2064	0.1511	140	-7.98	<.0001	0.05 -1.5053 -0.9076
TRTP	THSm2.2	SA	1.5467	0.1572	140	9.84	<.0001	0.05 1.2358 1.8575
TRTP	mCC	SA	2.7531	0.1744	140	15.78	<.0001	0.05 2.4083 3.0979

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 4-ABP (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2104
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	214.4
<b>AIC (Smaller is Better)</b>	216.4
<b>AICC (Smaller is Better)</b>	216.5
<b>BIC (Smaller is Better)</b>	219.4

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	18.48	<.0001
<b>SEX</b>	1	150	0.76	0.3856
<b>UCPDGR1</b>	1	150	2.33	0.1289
<b>TRTP</b>	2	150	182.56	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	0.9989	0.07417	150	13.47	<.0001	0.05	0.8523	1.1454



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	0.8120	0.05294	150	15.34	<.0001	0.05	0.7074 0.9166
TRTP	mCC	2.4639	0.07218	150	34.13	<.0001	0.05	2.3213 2.6065
TRTP	SA	0.9989	0.07417	150	13.47	<.0001	0.05	0.8523 1.1454
TRTP	THSm2.2	0.8120	0.05294	150	15.34	<.0001	0.05	0.7074 0.9166
TRTP	mCC	2.4639	0.07218	150	34.13	<.0001	0.05	2.3213 2.6065

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.4650	0.1028	150	-14.25	<.0001	0.05 -1.6681 -1.2619
TRTP	THSm2.2	mCC	-1.6519	0.08925	150	-18.51	<.0001	0.05 -1.8283 -1.4756
TRTP	THSm2.2	SA	-0.1869	0.09116	150	-2.05	0.0421	0.05 -0.3670 -0.00679
TRTP	mCC	SA	1.4650	0.1028	150	14.25	<.0001	0.05 1.2619 1.6681

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 4-ABP (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.3254
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	264.1
<b>AIC (Smaller is Better)</b>	266.1
<b>AICC (Smaller is Better)</b>	266.1
<b>BIC (Smaller is Better)</b>	269.0

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	4.69	0.0321
<b>SEX</b>	1	141	7.41	0.0073
<b>UCPDGR1</b>	1	141	7.84	0.0058
<b>TRTP</b>	2	141	96.90	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	0.9853	0.09455	141	10.42	<.0001	0.05	0.7984 1.1723



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	0.8331	0.06894	141	12.09	<.0001	0.05	0.6968 0.9694
TRTP	mCC	2.3432	0.08977	141	26.10	<.0001	0.05	2.1658 2.5207
TRTP	SA	0.9853	0.09455	141	10.42	<.0001	0.05	0.7984 1.1723
TRTP	THSm2.2	0.8331	0.06894	141	12.09	<.0001	0.05	0.6968 0.9694
TRTP	mCC	2.3432	0.08977	141	26.10	<.0001	0.05	2.1658 2.5207

		Differences of Least Squares Means						
Planned		Planned		Standard				
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.3579	0.1295	141	-10.49	<.0001	0.05 -1.6139 -1.1019
TRTP	THSm2.2	mCC	-1.5101	0.1129	141	-13.37	<.0001	0.05 -1.7333 -1.2869
TRTP	THSm2.2	SA	-0.1522	0.1170	141	-1.30	0.1953	0.05 -0.3835 0.07906
TRTP	mCC	SA	1.3579	0.1295	141	10.49	<.0001	0.05 1.1019 1.6139

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 1-NA (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1757
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	187.4
<b>AIC (Smaller is Better)</b>	189.4
<b>AICC (Smaller is Better)</b>	189.4
<b>BIC (Smaller is Better)</b>	192.4

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	18.09	<.0001
<b>SEX</b>	1	150	2.93	0.0889
<b>UCPDGR1</b>	1	150	2.57	0.1112
<b>TRTP</b>	2	150	724.66	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	1.2662	0.06764	150	18.72	<.0001	0.05	1.1325	1.3998



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	1.2756	0.04840	150	26.36	<.0001	0.05	1.1800 1.3712
TRTP	mCC	4.1810	0.06597	150	63.37	<.0001	0.05	4.0507 4.3114
TRTP	SA	1.2662	0.06764	150	18.72	<.0001	0.05	1.1325 1.3998
TRTP	THSm2.2	1.2756	0.04840	150	26.36	<.0001	0.05	1.1800 1.3712
TRTP	mCC	4.1810	0.06597	150	63.37	<.0001	0.05	4.0507 4.3114

		Differences of Least Squares Means						
Planned		Planned		Standard				
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.9148	0.09389	150	-31.05	<.0001	0.05 -3.1004 -2.7293
TRTP	THSm2.2	mCC	-2.9054	0.08159	150	-35.61	<.0001	0.05 -3.0666 -2.7442
TRTP	THSm2.2	SA	0.009437	0.08319	150	0.11	0.9098	0.05 -0.1549 0.1738
TRTP	mCC	SA	2.9148	0.09389	150	31.05	<.0001	0.05 2.7293 3.1004

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 1-NA (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.5192
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	329.9
<b>AIC (Smaller is Better)</b>	331.9
<b>AICC (Smaller is Better)</b>	332.0
<b>BIC (Smaller is Better)</b>	334.9

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	6.80	0.0101
<b>SEX</b>	1	141	3.00	0.0853
<b>UCPDGR1</b>	1	141	3.18	0.0767
<b>TRTP</b>	2	141	201.59	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	1.5825	0.1194	141	13.26	<.0001	0.05	1.3464 1.8185



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	1.3660	0.08716	141	15.67	<.0001	0.05	1.1937 1.5383
TRTP	mCC	4.1026	0.1135	141	36.16	<.0001	0.05	3.8783 4.3269
TRTP	SA	1.5825	0.1194	141	13.26	<.0001	0.05	1.3464 1.8185
TRTP	THSm2.2	1.3660	0.08716	141	15.67	<.0001	0.05	1.1937 1.5383
TRTP	mCC	4.1026	0.1135	141	36.16	<.0001	0.05	3.8783 4.3269

Differences of Least Squares Means								
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.5201	0.1635	141	-15.41	<.0001	0.05 -2.8434 -2.1969
TRTP	THSm2.2	mCC	-2.7366	0.1428	141	-19.16	<.0001	0.05 -3.0190 -2.4543
TRTP	THSm2.2	SA	-0.2165	0.1479	141	-1.46	0.1455	0.05 -0.5088 0.07587
TRTP	mCC	SA	2.5201	0.1635	141	15.41	<.0001	0.05 2.1969 2.8434

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 2-NA (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1366
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	149.6
<b>AIC (Smaller is Better)</b>	151.6
<b>AICC (Smaller is Better)</b>	151.6
<b>BIC (Smaller is Better)</b>	154.6

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	33.69	<.0001
<b>SEX</b>	1	150	0.13	0.7157
<b>UCPDGR1</b>	1	150	0.12	0.7250
<b>TRTP</b>	2	150	439.67	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	0.9426	0.05966	150	15.80	<.0001	0.05	0.8247	1.0605



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	0.8158	0.04260	150	19.15	<.0001	0.05	0.7316 0.9000
TRTP	mCC	2.8508	0.05807	150	49.09	<.0001	0.05	2.7360 2.9655
TRTP	SA	0.9426	0.05966	150	15.80	<.0001	0.05	0.8247 1.0605
TRTP	THSm2.2	0.8158	0.04260	150	19.15	<.0001	0.05	0.7316 0.9000
TRTP	mCC	2.8508	0.05807	150	49.09	<.0001	0.05	2.7360 2.9655

Differences of Least Squares Means										
Planned		Planned	Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-1.9082	0.08291	150	-23.02	<.0001	0.05	-2.0720	-1.7444
TRTP	THSm2.2	mCC	-2.0350	0.07171	150	-28.38	<.0001	0.05	-2.1767	-1.8933
TRTP	THSm2.2	SA	-0.1268	0.07322	150	-1.73	0.0854	0.05	-0.2715	0.01788
TRTP	mCC	SA	1.9082	0.08291	150	23.02	<.0001	0.05	1.7444	2.0720



**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: 2-NA (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2219
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	210.2
<b>AIC (Smaller is Better)</b>	212.2
<b>AICC (Smaller is Better)</b>	212.2
<b>BIC (Smaller is Better)</b>	215.1

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	15.76	0.0001
<b>SEX</b>	1	141	1.82	0.1797
<b>UCPDGR1</b>	1	141	2.04	0.1558
<b>TRTP</b>	2	141	208.90	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	1.1179	0.07817	141	14.30	<.0001	0.05	0.9634	1.2724



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	0.9525	0.05691	141	16.74	<.0001	0.05	0.8400 1.0650
TRTP	mCC	2.7771	0.07407	141	37.50	<.0001	0.05	2.6307 2.9236
TRTP	SA	1.1179	0.07817	141	14.30	<.0001	0.05	0.9634 1.2724
TRTP	THSm2.2	0.9525	0.05691	141	16.74	<.0001	0.05	0.8400 1.0650
TRTP	mCC	2.7771	0.07407	141	37.50	<.0001	0.05	2.6307 2.9236

		Differences of Least Squares Means						
Planned		Planned		Standard				
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.6592	0.1071	141	-15.50	<.0001	0.05 -1.8709 -1.4475
TRTP	THSm2.2	mCC	-1.8246	0.0931	141	-19.60	<.0001	0.05 -2.0087 -1.6405
TRTP	THSm2.2	SA	-0.1654	0.09666	141	-1.71	0.0893	0.05 -0.3565 0.02571
TRTP	mCC	SA	1.6592	0.1071	141	15.50	<.0001	0.05 1.4475 1.8709

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: o-tol (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	152

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	154
<b>Number of Observations Used</b>	152
<b>Number of Observations Not Used</b>	2

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2286
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	221.8
<b>AIC (Smaller is Better)</b>	223.8
<b>AICC (Smaller is Better)</b>	223.9
<b>BIC (Smaller is Better)</b>	226.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	146	46.59	<.0001
<b>SEX</b>	1	146	0.53	0.4690
<b>UCPDGR1</b>	1	146	0.20	0.6579
<b>TRTP</b>	2	146	44.04	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.1036	0.07685	146	53.40	<.0001	0.05	3.9517	4.2554



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	4.0901	0.05510	146	74.23	<.0001	0.05	3.9812 4.1990
TRTP	mCC	4.9430	0.07897	146	62.59	<.0001	0.05	4.7869 5.0991
TRTP	SA	4.1036	0.07685	146	53.40	<.0001	0.05	3.9517 4.2554
TRTP	THSm2.2	4.0901	0.05510	146	74.23	<.0001	0.05	3.9812 4.1990
TRTP	mCC	4.9430	0.07897	146	62.59	<.0001	0.05	4.7869 5.0991

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.8394	0.1098	146	-7.64	<.0001	0.05 -1.0565 -0.6224
TRTP	THSm2.2	mCC	-0.8529	0.09588	146	-8.90	<.0001	0.05 -1.0424 -0.6634
TRTP	THSm2.2	SA	-0.01349	0.09426	146	-0.14	0.8864	0.05 -0.1998 0.1728
TRTP	mCC	SA	0.8394	0.1098	146	7.64	<.0001	0.05 0.6224 1.0565

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: o-tol (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	143

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	146
<b>Number of Observations Used</b>	143
<b>Number of Observations Not Used</b>	3

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	0.7038
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	363.2
<b>AIC (Smaller is Better)</b>	365.2
<b>AICC (Smaller is Better)</b>	365.3
<b>BIC (Smaller is Better)</b>	368.1

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	137	34.36	<.0001
<b>SEX</b>	1	137	0.02	0.8821
<b>UCPDGR1</b>	1	137	0.05	0.8261
<b>TRTP</b>	2	137	3.88	0.0229

**Least Squares Means**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	<b>SA</b>	4.4815	0.1384	137	32.38	<.0001	0.05	4.2078	4.7552





		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.3623	0.1013	137	43.06	<.0001	0.05 4.1620 4.5626
TRTP	mCC	4.8363	0.1386	137	34.90	<.0001	0.05 4.5623 5.1104
TRTP	SA	4.4815	0.1384	137	32.38	<.0001	0.05 4.2078 4.7552
TRTP	THSm2.2	4.3623	0.1013	137	43.06	<.0001	0.05 4.1620 4.5626
TRTP	mCC	4.8363	0.1386	137	34.90	<.0001	0.05 4.5623 5.1104

		Differences of Least Squares Means					
Planned		Standard					
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t  Alpha Lower Upper
TRTP	SA	mCC	-0.3548	0.1951	137	-1.82	0.0712 0.05 -0.7407 0.03099
TRTP	THSm2.2	mCC	-0.4741	0.1711	137	-2.77	0.0064 0.05 -0.8124 -0.1358
TRTP	THSm2.2	SA	-0.1192	0.1710	137	-0.70	0.4870 0.05 -0.4574 0.2190
TRTP	mCC	SA	0.3548	0.1951	137	1.82	0.0712 0.05 -0.03099 0.7407

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: CEMA (ug), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1283
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	140.5
<b>AIC (Smaller is Better)</b>	142.5
<b>AICC (Smaller is Better)</b>	142.6
<b>BIC (Smaller is Better)</b>	145.6

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	152.10	<.0001
<b>SEX</b>	1	150	10.87	0.0012
<b>UCPDGR1</b>	1	150	0.84	0.3609
<b>TRTP</b>	2	150	366.66	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	2.6388	0.05749	150	45.90	<.0001	0.05	2.5252	2.7524



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.6601	0.04129	150	64.43	<.0001	0.05 2.5785 2.7417
TRTP	mCC	4.4200	0.05635	150	78.44	<.0001	0.05 4.3087 4.5314
TRTP	SA	2.6388	0.05749	150	45.90	<.0001	0.05 2.5252 2.7524
TRTP	THSm2.2	2.6601	0.04129	150	64.43	<.0001	0.05 2.5785 2.7417
TRTP	mCC	4.4200	0.05635	150	78.44	<.0001	0.05 4.3087 4.5314

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-1.7812	0.08023	150	-22.20	<.0001	0.05	-1.9397	-1.6227
TRTP	THSm2.2	mCC	-1.7600	0.06950	150	-25.32	<.0001	0.05	-1.8973	-1.6226
TRTP	THSm2.2	SA	0.02127	0.07056	150	0.30	0.7636	0.05	-0.1182	0.1607
TRTP	mCC	SA	1.7812	0.08023	150	22.20	<.0001	0.05	1.6227	1.9397

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: CEMA (ug), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.4528
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	311.0
<b>AIC (Smaller is Better)</b>	313.0
<b>AICC (Smaller is Better)</b>	313.0
<b>BIC (Smaller is Better)</b>	315.9

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	31.51	<.0001
<b>SEX</b>	1	141	7.29	0.0078
<b>UCPDGR1</b>	1	141	4.14	0.0437
<b>TRTP</b>	2	141	175.75	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	2.2418	0.1110	141	20.19	<.0001	0.05	2.0224 2.4613



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.1661	0.08122	141	26.67	<.0001	0.05	2.0056 2.3267
TRTP	mCC	4.5159	0.1059	141	42.64	<.0001	0.05	4.3066 4.7253
TRTP	SA	2.2418	0.1110	141	20.19	<.0001	0.05	2.0224 2.4613
TRTP	THSm2.2	2.1661	0.08122	141	26.67	<.0001	0.05	2.0056 2.3267
TRTP	mCC	4.5159	0.1059	141	42.64	<.0001	0.05	4.3066 4.7253

Differences of Least Squares Means										
	Planned	Planned	Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-2.2741	0.1527	141	-14.90	<.0001	0.05	-2.5759	-1.9723
TRTP	THSm2.2	mCC	-2.3498	0.1330	141	-17.67	<.0001	0.05	-2.6127	-2.0869
TRTP	THSm2.2	SA	-0.07568	0.1372	141	-0.55	0.5821	0.05	-0.3469	0.1955
TRTP	mCC	SA	2.2741	0.1527	141	14.90	<.0001	0.05	1.9723	2.5759

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: HEMA (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1474
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	161.8
<b>AIC (Smaller is Better)</b>	163.8
<b>AICC (Smaller is Better)</b>	163.8
<b>BIC (Smaller is Better)</b>	166.8

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	181.13	<.0001
<b>SEX</b>	1	150	0.65	0.4224
<b>UCPDGR1</b>	1	150	0.51	0.4770
<b>TRTP</b>	2	150	54.92	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	7.2123	0.06162	150	117.04	<.0001	0.05	7.0905 7.3340



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	7.1891	0.04426	150	162.44	<.0001	0.05	7.1017 7.2766
TRTP	mCC	7.9295	0.06033	150	131.44	<.0001	0.05	7.8103 8.0487
TRTP	SA	7.2123	0.06162	150	117.04	<.0001	0.05	7.0905 7.3340
TRTP	THSm2.2	7.1891	0.04426	150	162.44	<.0001	0.05	7.1017 7.2766
TRTP	mCC	7.9295	0.06033	150	131.44	<.0001	0.05	7.8103 8.0487

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.7172	0.08595	150	-8.35	<.0001	0.05	-0.8871 -0.5474
TRTP	THSm2.2	mCC	-0.7404	0.07448	150	-9.94	<.0001	0.05	-0.8875 -0.5932
TRTP	THSm2.2	SA	-0.02313	0.07562	150	-0.31	0.7601	0.05	-0.1726 0.1263
TRTP	mCC	SA	0.7172	0.08595	150	8.35	<.0001	0.05	0.5474 0.8871

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: HEMA (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2343
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	218.6
<b>AIC (Smaller is Better)</b>	220.6
<b>AICC (Smaller is Better)</b>	220.6
<b>BIC (Smaller is Better)</b>	223.5

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	130.09	<.0001
<b>SEX</b>	1	141	2.60	0.1092
<b>UCPDGR1</b>	1	141	0.44	0.5058
<b>TRTP</b>	2	141	37.90	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	7.5326	0.07984	141	94.34	<.0001	0.05	7.3748	7.6905



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	7.5561	0.05848	141	129.21	<.0001	0.05 7.4405 7.6717
TRTP	mCC	8.3238	0.07610	141	109.39	<.0001	0.05 8.1734 8.4742
TRTP	SA	7.5326	0.07984	141	94.34	<.0001	0.05 7.3748 7.6905
TRTP	THSm2.2	7.5561	0.05848	141	129.21	<.0001	0.05 7.4405 7.6717
TRTP	mCC	8.3238	0.07610	141	109.39	<.0001	0.05 8.1734 8.4742

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.7912	0.1098	141	-7.21	<.0001	0.05	-1.0082 -0.5742
TRTP	THSm2.2	mCC	-0.7677	0.09565	141	-8.03	<.0001	0.05	-0.9568 -0.5786
TRTP	THSm2.2	SA	0.02353	0.09873	141	0.24	0.8120	0.05	-0.1716 0.2187
TRTP	mCC	SA	0.7912	0.1098	141	7.21	<.0001	0.05	0.5742 1.0082

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: B[a]P (pg), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1959
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	204.4
<b>AIC (Smaller is Better)</b>	206.4
<b>AICC (Smaller is Better)</b>	206.4
<b>BIC (Smaller is Better)</b>	209.4

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	29.17	<.0001
<b>SEX</b>	1	150	0.01	0.9234
<b>UCPDGR1</b>	1	150	0.00	0.9728
<b>TRTP</b>	2	150	143.56	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	3.1092	0.07128	150	43.62	<.0001	0.05	2.9683 3.2500



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.1721	0.05104	150	62.15	<.0001	0.05	3.0712 3.2729
TRTP	mCC	4.5152	0.06954	150	64.93	<.0001	0.05	4.3777 4.6526
TRTP	SA	3.1092	0.07128	150	43.62	<.0001	0.05	2.9683 3.2500
TRTP	THSm2.2	3.1721	0.05104	150	62.15	<.0001	0.05	3.0712 3.2729
TRTP	mCC	4.5152	0.06954	150	64.93	<.0001	0.05	4.3777 4.6526

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.4060	0.09924	150	-14.17	<.0001	0.05	-1.6021 -1.2099
TRTP	THSm2.2	mCC	-1.3431	0.08587	150	-15.64	<.0001	0.05	-1.5128 -1.1734
TRTP	THSm2.2	SA	0.06290	0.08755	150	0.72	0.4736	0.05	-0.1101 0.2359
TRTP	mCC	SA	1.4060	0.09924	150	14.17	<.0001	0.05	1.2099 1.6021



**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: B[a]P (pg), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.4146
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	298.9
<b>AIC (Smaller is Better)</b>	300.9
<b>AICC (Smaller is Better)</b>	301.0
<b>BIC (Smaller is Better)</b>	303.9

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	20.05	<.0001
<b>SEX</b>	1	141	0.14	0.7043
<b>UCPDGR1</b>	1	141	2.51	0.1157
<b>TRTP</b>	2	141	39.02	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	3.5306	0.1066	141	33.13	<.0001	0.05	3.3199 3.7413



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.5043	0.07785	141	45.01	<.0001	0.05	3.3504 3.6582
TRTP	mCC	4.5606	0.1012	141	45.05	<.0001	0.05	4.3605 4.7607
TRTP	SA	3.5306	0.1066	141	33.13	<.0001	0.05	3.3199 3.7413
TRTP	THSm2.2	3.5043	0.07785	141	45.01	<.0001	0.05	3.3504 3.6582
TRTP	mCC	4.5606	0.1012	141	45.05	<.0001	0.05	4.3605 4.7607

Differences of Least Squares Means									
Planned	Planned	Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.0300	0.1462	141	-7.04	<.0001	0.05	-1.3190 -0.7409
TRTP	THSm2.2	mCC	-1.0563	0.1273	141	-8.30	<.0001	0.05	-1.3080 -0.8046
TRTP	THSm2.2	SA	-0.02634	0.1320	141	-0.20	0.8421	0.05	-0.2872 0.2345
TRTP	mCC	SA	1.0300	0.1462	141	7.04	<.0001	0.05	0.7409 1.3190

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: HMPMA (ug), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1366
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	149.7
<b>AIC (Smaller is Better)</b>	151.7
<b>AICC (Smaller is Better)</b>	151.7
<b>BIC (Smaller is Better)</b>	154.7

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	14.62	0.0002
<b>SEX</b>	1	150	0.53	0.4691
<b>UCPDGR1</b>	1	150	0.15	0.7026
<b>TRTP</b>	2	150	87.27	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.9261	0.05935	150	83.01	<.0001	0.05	4.8089	5.0434



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	4.9732	0.04261	150	116.71	<.0001	0.05	4.8890 5.0574
TRTP	mCC	5.8464	0.05825	150	100.36	<.0001	0.05	5.7313 5.9615
TRTP	SA	4.9261	0.05935	150	83.01	<.0001	0.05	4.8089 5.0434
TRTP	THSm2.2	4.9732	0.04261	150	116.71	<.0001	0.05	4.8890 5.0574
TRTP	mCC	5.8464	0.05825	150	100.36	<.0001	0.05	5.7313 5.9615

		Differences of Least Squares Means						
Planned		Planned		Standard				
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.9202	0.08279	150	-11.12	<.0001	0.05 -1.0838 -0.7567
TRTP	THSm2.2	mCC	-0.8731	0.07177	150	-12.17	<.0001	0.05 -1.0150 -0.7313
TRTP	THSm2.2	SA	0.04710	0.07281	150	0.65	0.5187	0.05 -0.09677 0.1910
TRTP	mCC	SA	0.9202	0.08279	150	11.12	<.0001	0.05 0.7567 1.0838

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: HMPMA (ug), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.2198
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	208.7
<b>AIC (Smaller is Better)</b>	210.7
<b>AICC (Smaller is Better)</b>	210.8
<b>BIC (Smaller is Better)</b>	213.7

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	9.28	0.0028
<b>SEX</b>	1	141	4.41	0.0374
<b>UCPDGR1</b>	1	141	0.99	0.3209
<b>TRTP</b>	2	141	26.61	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	5.2120	0.07746	141	67.28	<.0001	0.05	5.0589 5.3651





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	5.1691	0.05659	141	91.35	<.0001	0.05	5.0572 5.2809
TRTP	mCC	5.8138	0.07395	141	78.61	<.0001	0.05	5.6676 5.9600
TRTP	SA	5.2120	0.07746	141	67.28	<.0001	0.05	5.0589 5.3651
TRTP	THSm2.2	5.1691	0.05659	141	91.35	<.0001	0.05	5.0572 5.2809
TRTP	mCC	5.8138	0.07395	141	78.61	<.0001	0.05	5.6676 5.9600

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA mCC	-0.6018	0.1063	141	-5.66	<.0001	0.05	-0.8120 -0.3915
TRTP	THSm2.2 mCC	-0.6447	0.09282	141	-6.95	<.0001	0.05	-0.8282 -0.4612
TRTP	THSm2.2 SA	-0.04291	0.09570	141	-0.45	0.6546	0.05	-0.2321 0.1463
TRTP	mCC SA	0.6018	0.1063	141	5.66	<.0001	0.05	0.3915 0.8120

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: S-BMA (ng), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1375
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	150.5
<b>AIC (Smaller is Better)</b>	152.5
<b>AICC (Smaller is Better)</b>	152.5
<b>BIC (Smaller is Better)</b>	155.5

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	68.50	<.0001
<b>SEX</b>	1	150	2.02	0.1572
<b>UCPDGR1</b>	1	150	0.73	0.3946
<b>TRTP</b>	2	150	4.38	0.0141

**Least Squares Means  
Standard**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	<b>SA</b>	8.0740	0.05987	150	134.87	<.0001	0.05	7.9557	8.1923



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	7.9835	0.04274	150	186.80	<.0001	0.05	7.8990 8.0679
TRTP	mCC	8.1961	0.05854	150	140.01	<.0001	0.05	8.0805 8.3118
TRTP	SA	8.0740	0.05987	150	134.87	<.0001	0.05	7.9557 8.1923
TRTP	THSm2.2	7.9835	0.04274	150	186.80	<.0001	0.05	7.8990 8.0679
TRTP	mCC	8.1961	0.05854	150	140.01	<.0001	0.05	8.0805 8.3118

		Differences of Least Squares Means							
Planned		Standard							
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.1221	0.08389	150	-1.46	0.1475	0.05	-0.2879 0.04363
TRTP	THSm2.2	mCC	-0.2126	0.07209	150	-2.95	0.0037	0.05	-0.3551 -0.07021
TRTP	THSm2.2	SA	-0.09052	0.07341	150	-1.23	0.2195	0.05	-0.2356 0.05453
TRTP	mCC	SA	0.1221	0.08389	150	1.46	0.1475	0.05	-0.04363 0.2879

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: S-BMA (ng), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.3495
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	274.0
<b>AIC (Smaller is Better)</b>	276.0
<b>AICC (Smaller is Better)</b>	276.0
<b>BIC (Smaller is Better)</b>	279.0

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	67.82	<.0001
<b>SEX</b>	1	141	0.00	0.9865
<b>UCPDGR1</b>	1	141	0.10	0.7525
<b>TRTP</b>	2	141	1.45	0.2377

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	8.3052	0.09814	141	84.63	<.0001	0.05	8.1112	8.4992



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	8.2325	0.07135	141	115.38	<.0001	0.05	8.0914 8.3735
TRTP	mCC	8.0823	0.09346	141	86.48	<.0001	0.05	7.8976 8.2671
TRTP	SA	8.3052	0.09814	141	84.63	<.0001	0.05	8.1112 8.4992
TRTP	THSm2.2	8.2325	0.07135	141	115.38	<.0001	0.05	8.0914 8.3735
TRTP	mCC	8.0823	0.09346	141	86.48	<.0001	0.05	7.8976 8.2671

Differences of Least Squares Means											
Planned		Planned	Standard								
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	0.2229	0.1357	141	1.64	0.1028	0.05	-0.04543	0.4912	
TRTP	THSm2.2	mCC	0.1501	0.1171	141	1.28	0.2020	0.05	-0.08139	0.3816	
TRTP	THSm2.2	SA	-0.07273	0.1211	141	-0.60	0.5490	0.05	-0.3121	0.1667	
TRTP	mCC	SA	-0.2229	0.1357	141	-1.64	0.1028	0.05	-0.4912	0.04543	

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot1fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: NEQ (mg), avisit: Day 5

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**



**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.1951
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	203.3
<b>AIC (Smaller is Better)</b>	205.3
<b>AICC (Smaller is Better)</b>	205.3
<b>BIC (Smaller is Better)</b>	208.3

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	150	72.64	<.0001
<b>SEX</b>	1	150	8.18	0.0048
<b>UCPDGR1</b>	1	150	0.43	0.5120
<b>TRTP</b>	2	150	950.51	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	-1.6513	0.07097	150	-23.27	<.0001	0.05	-1.7916	-1.5111



		Least Squares Means							
Planned		Standard							
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	1.9429	0.05089	150	38.18	<.0001	0.05	1.8424	2.0435
TRTP	mCC	1.8501	0.06948	150	26.63	<.0001	0.05	1.7128	1.9874
TRTP	SA	-1.6513	0.07097	150	-23.27	<.0001	0.05	-1.7916	-1.5111
TRTP	THSm2.2	1.9429	0.05089	150	38.18	<.0001	0.05	1.8424	2.0435
TRTP	mCC	1.8501	0.06948	150	26.63	<.0001	0.05	1.7128	1.9874

Differences of Least Squares Means										
Planned		Planned	Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-3.5014	0.09886	150	-35.42	<.0001	0.05	-3.6967	-3.3060
TRTP	THSm2.2	mCC	0.09287	0.08574	150	1.08	0.2804	0.05	-0.07653	0.2623
TRTP	THSm2.2	SA	3.5943	0.08708	150	41.28	<.0001	0.05	3.4222	3.7663
TRTP	mCC	SA	3.5014	0.09886	150	35.42	<.0001	0.05	3.3060	3.6967

**Listing 15.4.3.6 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA using Mixed Model on Day 5 and Day 90 Visit - PP Set**

The where clause used on the dataset adam.adbx: pprot4fl='Y' and anl02fl='Y' and anl01fl='Y' and dtype ne 'LOCF'  
param: NEQ (mg), avisit: Day 90

**Model Information**

<b>Data Set</b>	WORK.ADBX2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	1.2584
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	455.1
<b>AIC (Smaller is Better)</b>	457.1
<b>AICC (Smaller is Better)</b>	457.1
<b>BIC (Smaller is Better)</b>	460.0

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	18.41	<.0001
<b>SEX</b>	1	141	0.14	0.7093
<b>UCPDGR1</b>	1	141	0.80	0.3740
<b>TRTP</b>	2	141	86.84	<.0001

**Least Squares Means****Planned****Standard**

<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	-0.8222	0.1854 141	-4.44	<.0001	0.05	-1.1887	-0.4558



		Least Squares Means							
Planned		Standard							
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	2.0188	0.1354	141	14.91	<.0001	0.05	1.7512	2.2865
TRTP	mCC	1.9408	0.1764	141	11.00	<.0001	0.05	1.5919	2.2896
TRTP	SA	-0.8222	0.1854	141	-4.44	<.0001	0.05	-1.1887	-0.4558
TRTP	THSm2.2	2.0188	0.1354	141	14.91	<.0001	0.05	1.7512	2.2865
TRTP	mCC	1.9408	0.1764	141	11.00	<.0001	0.05	1.5919	2.2896

		Differences of Least Squares Means							
Planned		Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-2.7630	0.2545	141	-10.86	<.0001	0.05	-3.2660 -2.2599
TRTP	THSm2.2	mCC	0.07807	0.2217	141	0.35	0.7252	0.05	-0.3601 0.5163
TRTP	THSm2.2	SA	2.8411	0.2290	141	12.40	<.0001	0.05	2.3883 3.2938
TRTP	mCC	SA	2.7630	0.2545	141	10.86	<.0001	0.05	2.2599 3.2660



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**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	139.4132500	27.8826500	94.24	<.0001
Error	151	44.6784116	0.2958835		
Corrected Total	156	184.0916616			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.757303	11.00362	0.543952	4.943391

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.8168261	15.8168261	53.46	<.0001
SEX	1	0.8933444	0.8933444	3.02	0.0843
UCPDGR1	1	0.4437164	0.4437164	1.50	0.2226
TRTP	2	122.2593631	61.1296816	206.60	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.0299875	9.0299875	30.52	<.0001
SEX	1	1.6485257	1.6485257	5.57	0.0195
UCPDGR1	1	0.0034972	0.0034972	0.01	0.9136
TRTP	2	122.2593631	61.1296816	206.60	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	<.0001
<b>THSm2.2</b>	4.42137632	<.0001
<b>mCC</b>	6.42492942	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.999249	-2.239230	-1.759267
<b>2 3</b>	-2.003553	-2.210825	-1.796282

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.42568078	
<b>THSm2.2</b>	4.42137632	0.9680
<b>mCC</b>	6.42492942	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.425681	4.253097 4.598264
<b>THSm2.2</b>	4.421376	4.297535 4.545218
<b>mCC</b>	6.424929	6.257436 6.592423

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.004304	-0.216087	0.207479
<b>3 1</b>	1.999249	1.759267	2.239230

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	106.2909410	21.2581882	48.41	<.0001
Error	137	60.1652691	0.4391625		
Corrected Total	142	166.4562101			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.638552	12.22601	0.662693	5.420359

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	23.69560775	23.69560775	53.96	<.0001
SEX	1	0.11104903	0.11104903	0.25	0.6159
UCPDGR1	1	0.00022728	0.00022728	0.00	0.9819
TRTP	2	82.48405693	41.24202846	93.91	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.29782932	14.29782932	32.56	<.0001
SEX	1	0.00117784	0.00117784	0.00	0.9588
UCPDGR1	1	0.32005971	0.32005971	0.73	0.3948
TRTP	2	82.48405693	41.24202846	93.91	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95328513	<.0001
<b>THSm2.2</b>	4.93043511	<.0001
<b>mCC</b>	6.62805779	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.953285	4.737016 5.169555
<b>THSm2.2</b>	4.930435	4.767435 5.093435
<b>mCC</b>	6.628058	6.421057 6.835059

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.674773	-1.973237	-1.376308
<b>2 3</b>	-1.697623	-1.960287	-1.434958

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: MHBMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.95328513	
<b>THSm2.2</b>	4.93043511	0.8674
<b>mCC</b>	6.62805779	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.953285	4.737016 5.169555
<b>THSm2.2</b>	4.930435	4.767435 5.093435
<b>mCC</b>	6.628058	6.421057 6.835059

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.022850	-0.292884	0.247184
<b>3 1</b>	1.674773	1.376308	1.973237

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comppp1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	34.87394520	6.97478904	68.60	<.0001
Error	151	15.35367575	0.10167997		
Corrected Total	156	50.22762095			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.694318	5.521601	0.318873	5.775009

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.91029010	5.91029010	58.13	<.0001
SEX	1	0.00039718	0.00039718	0.00	0.9502
UCPDGR1	1	0.16086863	0.16086863	1.58	0.2104
TRTP	2	28.80238929	14.40119465	141.63	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.22906923	7.22906923	71.10	<.0001
SEX	1	0.01127854	0.01127854	0.11	0.7396
UCPDGR1	1	0.10819730	0.10819730	1.06	0.3039
TRTP	2	28.80238929	14.40119465	141.63	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	<.0001
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.185964	-1.326314	-1.045614
<b>2 3</b>	-0.679911	-0.801174	-0.558648

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21281269	
<b>THSm2.2</b>	5.71886549	<.0001
<b>mCC</b>	6.39877646	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.212813	5.111582 5.314043
<b>THSm2.2</b>	5.718865	5.646259 5.791472
<b>mCC</b>	6.398776	6.300919 6.496634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.506053	0.381895	0.630211
<b>3 1</b>	1.185964	1.045614	1.326314

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	20.28612330	4.05722466	30.43	<.0001
Error	137	18.26844703	0.13334633		
Corrected Total	142	38.55457033			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.526166	6.044575	0.365166	6.041221

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.94494812	1.94494812	14.59	0.0002
SEX	1	0.24148483	0.24148483	1.81	0.1806
UCPDGR1	1	0.00934564	0.00934564	0.07	0.7916
TRTP	2	18.09034471	9.04517236	67.83	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.23436833	2.23436833	16.76	<.0001
SEX	1	0.31354571	0.31354571	2.35	0.1275
UCPDGR1	1	0.02209408	0.02209408	0.17	0.6846
TRTP	2	18.09034471	9.04517236	67.83	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.62856551	<.0001
<b>THSm2.2</b>	5.95890543	<.0001
<b>mCC</b>	6.56891875	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.628566	5.509444 5.747687
<b>THSm2.2</b>	5.958905	5.868942 6.048869
<b>mCC</b>	6.568919	6.455323 6.682514

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.940353	-1.104238	-0.776469
<b>2 3</b>	-0.610013	-0.754542	-0.465485

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.62856551	
<b>THSm2.2</b>	5.95890543	<.0001
<b>mCC</b>	6.56891875	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.628566	5.509444	5.747687
<b>THSm2.2</b>	5.958905	5.868942	6.048869
<b>mCC</b>	6.568919	6.455323	6.682514

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.330340	0.181528	0.479152
<b>3 1</b>	0.940353	0.776469	1.104238

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comppp1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	196.3255759	39.2651152	199.65	<.0001
Error	151	29.6975154	0.1966723		
Corrected Total	156	226.0230913			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.868608	8.314890	0.443477	5.333534

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.7450455	39.7450455	202.09	<.0001
SEX	1	0.0389029	0.0389029	0.20	0.6571
UCPDGR1	1	0.2997712	0.2997712	1.52	0.2189
TRTP	2	156.2418563	78.1209282	397.21	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.5763021	32.5763021	165.64	<.0001
SEX	1	0.3160312	0.3160312	1.61	0.2069
UCPDGR1	1	0.0016463	0.0016463	0.01	0.9272
TRTP	2	156.2418563	78.1209282	397.21	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.65230095	<.0001
<b>THSm2.2</b>	4.78066546	<.0001
<b>mCC</b>	6.99107463	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.652301	4.511680 4.792922
<b>THSm2.2</b>	4.780665	4.679686 4.881645
<b>mCC</b>	6.991075	6.854854 7.127295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.338774	-2.533871	-2.143676
<b>2 3</b>	-2.210409	-2.379073	-2.041746

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.65230095	
<b>THSm2.2</b>	4.78066546	0.1438
<b>mCC</b>	6.99107463	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.652301	4.511680 4.792922
<b>THSm2.2</b>	4.780665	4.679686 4.881645
<b>mCC</b>	6.991075	6.854854 7.127295

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.128365	-0.044246	0.300975
<b>3 1</b>	2.338774	2.143676	2.533871

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	165.6348574	33.1269715	77.86	<.0001
Error	137	58.2889503	0.4254668		
Corrected Total	142	223.9238077			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.739693	11.74160	0.652278	5.555277

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	37.7253031	37.7253031	88.67	<.0001
SEX	1	1.6752187	1.6752187	3.94	0.0492
UCPDGR1	1	0.0379807	0.0379807	0.09	0.7656
TRTP	2	126.1963549	63.0981774	148.30	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.8705412	26.8705412	63.16	<.0001
SEX	1	2.7551719	2.7551719	6.48	0.0120
UCPDGR1	1	0.5534069	0.5534069	1.30	0.2561
TRTP	2	126.1963549	63.0981774	148.30	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.01855907	<.0001
<b>THSm2.2</b>	4.96033444	<.0001
<b>mCC</b>	7.06253123	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.018559	4.805794 5.231324
<b>THSm2.2</b>	4.960334	4.799898 5.120770
<b>mCC</b>	7.062531	6.859434 7.265629

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.043972	-2.336814	-1.751130
<b>2 3</b>	-2.102197	-2.359986	-1.844408

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-PMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.01855907	
THSm2.2	4.96033444	0.6655
mCC	7.06253123	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.018559	4.805794 5.231324
THSm2.2	4.960334	4.799898 5.120770
mCC	7.062531	6.859434 7.265629

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.058225	-0.323992	0.207543
3 1	2.043972	1.751130	2.336814

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	21.28912900	4.25782580	145.44	<.0001
Error	151	4.42056169	0.02927524		
Corrected Total	156	25.70969069			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.828059	15.19680	0.171100	1.125896

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.29937169	1.29937169	44.38	<.0001
SEX	1	0.45696868	0.45696868	15.61	0.0001
UCPDGR1	1	0.01526889	0.01526889	0.52	0.4713
TRTP	2	19.51751974	9.75875987	333.35	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.96922081	0.96922081	33.11	<.0001
SEX	1	0.31246296	0.31246296	10.67	0.0013
UCPDGR1	1	0.00171734	0.00171734	0.06	0.8090
TRTP	2	19.51751974	9.75875987	333.35	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.91068301	<.0001
<b>THSm2.2</b>	0.90375864	<.0001
<b>mCC</b>	1.70350654	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.910683	0.856429 0.964937
<b>THSm2.2</b>	0.903759	0.864801 0.942716
<b>mCC</b>	1.703507	1.650993 1.756020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.792824	-0.868050	-0.717597
<b>2 3</b>	-0.799748	-0.864818	-0.734678

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	0.91068301	
THSm2.2	0.90375864	0.8375
mCC	1.70350654	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	0.910683	0.856429	0.964937
THSm2.2	0.903759	0.864801	0.942716
mCC	1.703507	1.650993	1.756020

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.006924	-0.073518	0.059669
3 1	0.792824	0.717597	0.868050

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.02894239	2.60578848	73.86	<.0001
Error	137	4.83341316	0.03528039		
Corrected Total	142	17.86235555			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.729408	14.68877	0.187831	1.278737

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.51777344	0.51777344	14.68	0.0002
SEX	1	0.01216214	0.01216214	0.34	0.5581
UCPDGR1	1	0.00753169	0.00753169	0.21	0.6448
TRTP	2	12.49147512	6.24573756	177.03	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.32968293	0.32968293	9.34	0.0027
SEX	1	0.00041077	0.00041077	0.01	0.9142
UCPDGR1	1	0.06052091	0.06052091	1.72	0.1925
TRTP	2	12.49147512	6.24573756	177.03	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.11647886	<.0001
<b>THSm2.2</b>	1.07875512	<.0001
<b>mCC</b>	1.74608408	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.116479	1.055199 1.177759
<b>THSm2.2</b>	1.078755	1.032557 1.124953
<b>mCC</b>	1.746084	1.687670 1.804498

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.629605	-0.713900	-0.545311
<b>2 3</b>	-0.667329	-0.741520	-0.593137

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: COHb (%), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.11647886	
<b>THSm2.2</b>	1.07875512	0.3315
<b>mCC</b>	1.74608408	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.116479	1.055199 1.177759
<b>THSm2.2</b>	1.078755	1.032557 1.124953
<b>mCC</b>	1.746084	1.687670 1.804498

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.037724	-0.114266	0.038818
<b>3 1</b>	0.629605	0.545311	0.713900

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comppp1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	98.4452510	19.6890502	299.08	<.0001
Error	151	9.9405694	0.0658316		
Corrected Total	156	108.3858204			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.908285	6.765591	0.256577	3.792376

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	72.62368170	72.62368170	1103.17	<.0001
SEX	1	0.63188383	0.63188383	9.60	0.0023
UCPDGR1	1	0.11447588	0.11447588	1.74	0.1893
TRTP	2	25.07520963	12.53760481	190.45	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	60.13496228	60.13496228	913.47	<.0001
SEX	1	0.43274423	0.43274423	6.57	0.0113
UCPDGR1	1	0.27793675	0.27793675	4.22	0.0416
TRTP	2	25.07520963	12.53760481	190.45	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43037745	<.0001
<b>THSm2.2</b>	3.60948075	<.0001
<b>mCC</b>	4.43762245	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.430377	3.348953 3.511802
<b>THSm2.2</b>	3.609481	3.551055 3.667906
<b>mCC</b>	4.437622	4.358887 4.516358

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.007245	-1.120135	-0.894355
<b>2 3</b>	-0.828142	-0.925685	-0.730598

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.43037745	
<b>THSm2.2</b>	3.60948075	0.0005
<b>mCC</b>	4.43762245	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.430377	3.348953 3.511802
<b>THSm2.2</b>	3.609481	3.551055 3.667906
<b>mCC</b>	4.437622	4.358887 4.516358

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.179103	0.079148	0.279059
<b>3 1</b>	1.007245	0.894355	1.120135

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	119.5346787	23.9069357	43.30	<.0001
Error	137	75.6374867	0.5520984		
Corrected Total	142	195.1721654			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.612458	21.81411	0.743033	3.406204

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	37.35459607	37.35459607	67.66	<.0001
SEX	1	0.07237096	0.07237096	0.13	0.7179
UCPDGR1	1	1.50309736	1.50309736	2.72	0.1012
TRTP	2	80.60461435	40.30230717	73.00	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.85870666	26.85870666	48.65	<.0001
SEX	1	0.01171442	0.01171442	0.02	0.8844
UCPDGR1	1	2.40221620	2.40221620	4.35	0.0388
TRTP	2	80.60461435	40.30230717	73.00	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70365861	<.0001
<b>THSm2.2</b>	3.08615503	<.0001
<b>mCC</b>	4.57324391	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	2.703659	2.460790	2.946528
<b>THSm2.2</b>	3.086155	2.903191	3.269119
<b>mCC</b>	4.573244	4.342269	4.804219

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.869585	-2.203227	-1.535943
<b>2 3</b>	-1.487089	-1.780645	-1.193533

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.70365861	
<b>THSm2.2</b>	3.08615503	0.0140
<b>mCC</b>	4.57324391	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.703659	2.460790 2.946528
<b>THSm2.2</b>	3.086155	2.903191 3.269119
<b>mCC</b>	4.573244	4.342269 4.804219

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.382496	0.078777	0.686216
<b>3 1</b>	1.869585	1.535943	2.203227

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5479.836020	1095.967204	62.67	<.0001
Error	151	2640.648056	17.487735		
Corrected Total	156	8120.484076			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.674816	69.03764	4.181834	6.057325

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	368.358057	368.358057	21.06	<.0001
SEX	1	68.256820	68.256820	3.90	0.0500
UCPDGR1	1	3.220293	3.220293	0.18	0.6684
TRTP	2	5040.000851	2520.000425	144.10	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	379.226417	379.226417	21.69	<.0001
SEX	1	25.891711	25.891711	1.48	0.2256
UCPDGR1	1	10.176240	10.176240	0.58	0.4468
TRTP	2	5040.000851	2520.000425	144.10	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.1399726	<.0001
THSm2.2	2.2909408	<.0001
mCC	15.3895646	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	3.139973	1.810013	4.469933
THSm2.2	2.290941	1.337562	3.244319
mCC	15.389565	14.103648	16.675481

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-12.249592	-14.088146	-10.411038
2 3	-13.098624	-14.694111	-11.503137

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 5

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.1399726	
THSm2.2	2.2909408	0.3064
mCC	15.3895646	<.0001

95% Confidence Limits			
TRTP	AVAL LSMEAN		
SA	3.139973	1.810013	4.469933
THSm2.2	2.290941	1.337562	3.244319
mCC	15.389565	14.103648	16.675481

**Least Squares Means for Effect**

TRTP			
Difference Between Means		95% Confidence Limits for LSMean(i)-LSMean(j)	
i	j		
2	1	-0.849032	-2.483659 0.785596
3	1	12.249592	10.411038 14.088146

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	2565.529655	513.105931	35.32	<.0001
Error	137	1990.442373	14.528776		
Corrected Total	142	4555.972028			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.563114	76.44710	3.811663	4.986014

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	41.736343	41.736343	2.87	0.0924
SEX	1	4.209877	4.209877	0.29	0.5912
UCPDGR1	1	24.046090	24.046090	1.66	0.2004
TRTP	2	2495.537346	1247.768673	85.88	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	16.565394	16.565394	1.14	0.2875
SEX	1	6.816480	6.816480	0.47	0.4945
UCPDGR1	1	50.534702	50.534702	3.48	0.0643
TRTP	2	2495.537346	1247.768673	85.88	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.6034187	<.0001
THSm2.2	2.2884502	<.0001
mCC	11.6524895	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	2.603419	1.359574	3.847263
THSm2.2	2.288450	1.350313	3.226587
mCC	11.652489	10.467502	12.837477

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-9.049071	-10.759411	-7.338730
2 3	-9.364039	-10.870262	-7.857816

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Exhaled CO (ppm), avisit: Day 90

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.6034187	
THSm2.2	2.2884502	0.6890
mCC	11.6524895	<.0001

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	2.603419	1.359574	3.847263
THSm2.2	2.288450	1.350313	3.226587
mCC	11.652489	10.467502	12.837477

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.314968	-1.867877	1.237941
3 1	9.049071	7.338730	10.759411

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	52.81383767	10.56276753	110.98	<.0001
Error	151	14.37192610	0.09517832		
Corrected Total	156	67.18576377			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.786087	7.584658	0.308510	4.067551

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	22.82498517	22.82498517	239.81	<.0001
SEX	1	1.24104579	1.24104579	13.04	0.0004
UCPDGR1	1	0.03666738	0.03666738	0.39	0.5357
TRTP	2	28.71113933	14.35556967	150.83	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	13.31024588	13.31024588	139.85	<.0001
SEX	1	1.90706411	1.90706411	20.04	<.0001
UCPDGR1	1	0.01540604	0.01540604	0.16	0.6880
TRTP	2	28.71113933	14.35556967	150.83	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.76511382	<.0001
<b>THSm2.2</b>	3.85725500	<.0001
<b>mCC</b>	4.79435720	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.765114	3.667236 3.862992
<b>THSm2.2</b>	3.857255	3.787003 3.927507
<b>mCC</b>	4.794357	4.699081 4.889634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.029243	-1.165605	-0.892882
<b>2 3</b>	-0.937102	-1.054767	-0.819438

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.76511382	
<b>THSm2.2</b>	3.85725500	0.1318
<b>mCC</b>	4.79435720	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.765114	3.667236 3.862992
<b>THSm2.2</b>	3.857255	3.787003 3.927507
<b>mCC</b>	4.794357	4.699081 4.889634

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.092141	-0.028016	0.212299
<b>3 1</b>	1.029243	0.892882	1.165605

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	22.39202461	4.47840492	30.75	<.0001
Error	137	19.95328742	0.14564443		
Corrected Total	142	42.34531202			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.528796	8.216117	0.381634	4.644942

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.22325346	9.22325346	63.33	<.0001
SEX	1	1.05816831	1.05816831	7.27	0.0079
UCPDGR1	1	0.02265696	0.02265696	0.16	0.6939
TRTP	2	12.08794588	6.04397294	41.50	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.00111026	5.00111026	34.34	<.0001
SEX	1	1.45556270	1.45556270	9.99	0.0019
UCPDGR1	1	0.13548377	0.13548377	0.93	0.3365
TRTP	2	12.08794588	6.04397294	41.50	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.52230824	<.0001
<b>THSm2.2</b>	4.45066332	<.0001
<b>mCC</b>	5.11960478	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.522308	4.397732 4.646885
<b>THSm2.2</b>	4.450663	4.356774 4.544553
<b>mCC</b>	5.119605	5.000290 5.238920

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.597297	-0.769361	-0.425232
<b>2 3</b>	-0.668941	-0.820020	-0.517863

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.52230824	
<b>THSm2.2</b>	4.45066332	0.3643
<b>mCC</b>	5.11960478	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.522308	4.397732 4.646885
<b>THSm2.2</b>	4.450663	4.356774 4.544553
<b>mCC</b>	5.119605	5.000290 5.238920

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.071645	-0.227293	0.084003
<b>3 1</b>	0.597297	0.425232	0.769361

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	301.1918430	60.2383686	186.04	<.0001
Error	151	48.8920866	0.3237887		
Corrected Total	156	350.0839296			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.860342	-4469.551	0.569024	-0.012731

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	66.5882257	66.5882257	205.65	<.0001
SEX	1	0.8757571	0.8757571	2.70	0.1021
UCPDGR1	1	0.2757973	0.2757973	0.85	0.3575
TRTP	2	233.4520629	116.7260315	360.50	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	64.8774155	64.8774155	200.37	<.0001
SEX	1	1.6677340	1.6677340	5.15	0.0247
UCPDGR1	1	0.7542219	0.7542219	2.33	0.1290
TRTP	2	233.4520629	116.7260315	360.50	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.89443472	<.0001
THSm2.2	0.16793790	<.0001
mCC	1.47665019	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.894435	-2.074878	-1.713992
THSm2.2	0.167938	0.038335	0.297541
mCC	1.476650	1.301987	1.651313

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-3.371085	-3.621258	-3.120912
2 3	-1.308712	-1.525208	-1.092216

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.89443472	
THSm2.2	0.16793790	<.0001
mCC	1.47665019	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.894435	-2.074878	-1.713992
THSm2.2	0.167938	0.038335	0.297541
mCC	1.476650	1.301987	1.651313

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	2.062373	1.840836	2.283910
3 1	3.371085	3.120912	3.621258

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	216.3151663	43.2630333	66.80	<.0001
Error	137	88.7242569	0.6476223		
Corrected Total	142	305.0394232			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.709138	357.8064	0.804750	0.224912

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	59.9176446	59.9176446	92.52	<.0001
SEX	1	1.9020771	1.9020771	2.94	0.0888
UCPDGR1	1	0.1999681	0.1999681	0.31	0.5793
TRTP	2	154.2954766	77.1477383	119.12	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	59.6584103	59.6584103	92.12	<.0001
SEX	1	2.3867604	2.3867604	3.69	0.0570
UCPDGR1	1	0.3596711	0.3596711	0.56	0.4574
TRTP	2	154.2954766	77.1477383	119.12	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.28108747	<.0001
THSm2.2	0.30274513	<.0001
mCC	1.53247883	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.281087	-1.543665	-1.018510
THSm2.2	0.302745	0.104603	0.500887
mCC	1.532479	1.282125	1.782833

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-2.813566	-3.174497	-2.452636
2 3	-1.229734	-1.548122	-0.911345

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NNN (pg/mg creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.28108747	
THSm2.2	0.30274513	<.0001
mCC	1.53247883	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.281087	-1.543665	-1.018510
THSm2.2	0.302745	0.104603	0.500887
mCC	1.532479	1.282125	1.782833

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	1.583833	1.255579	1.912086
3 1	2.813566	2.452636	3.174497

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	80.9899830	16.1979966	89.02	<.0001
Error	151	27.4770295	0.1819671		
Corrected Total	156	108.4670125			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.746678	37.97707	0.426576	1.123246

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.13068145	5.13068145	28.20	<.0001
SEX	1	0.92056304	0.92056304	5.06	0.0259
UCPDGR1	1	0.18578853	0.18578853	1.02	0.3139
TRTP	2	74.75294995	37.37647497	205.40	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.98488192	4.98488192	27.39	<.0001
SEX	1	1.49994903	1.49994903	8.24	0.0047
UCPDGR1	1	0.44503914	0.44503914	2.45	0.1199
TRTP	2	74.75294995	37.37647497	205.40	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.82234024	<.0001
<b>THSm2.2</b>	0.67411098	<.0001
<b>mCC</b>	2.27878753	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.822340	0.686391 0.958290
<b>THSm2.2</b>	0.674111	0.576665 0.771557
<b>mCC</b>	2.278788	2.147899 2.409676

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.456447	-1.644490	-1.268405
<b>2 3</b>	-1.604677	-1.767040	-1.442314

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	0.82234024	
THSm2.2	0.67411098	0.0823
mCC	2.27878753	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	0.822340	0.686391 0.958290
THSm2.2	0.674111	0.576665 0.771557
mCC	2.278788	2.147899 2.409676

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.148229	-0.315652	0.019193
3 1	1.456447	1.268405	1.644490

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	72.6343953	14.5268791	53.97	<.0001
Error	137	36.8791298	0.2691907		
Corrected Total	142	109.5135250			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.663246	44.00507	0.518836	1.179037

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.15149723	1.15149723	4.28	0.0405
SEX	1	0.69304868	0.69304868	2.57	0.1109
UCPDGR1	1	1.05037331	1.05037331	3.90	0.0502
TRTP	2	69.73947603	34.86973802	129.54	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.71727783	0.71727783	2.66	0.1049
SEX	1	1.16241276	1.16241276	4.32	0.0396
UCPDGR1	1	1.80333673	1.80333673	6.70	0.0107
TRTP	2	69.73947603	34.86973802	129.54	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.88649672	<.0001
<b>THSm2.2</b>	0.68521720	<.0001
<b>mCC</b>	2.29370886	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.886497	0.716750 1.056243
<b>THSm2.2</b>	0.685217	0.557308 0.813126
<b>mCC</b>	2.293709	2.132416 2.455002

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.407212	-1.640393	-1.174032
<b>2 3</b>	-1.608492	-1.813507	-1.403476

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 4-ABP (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.88649672	
<b>THSm2.2</b>	0.68521720	0.0632
<b>mCC</b>	2.29370886	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.886497	0.716750 1.056243
<b>THSm2.2</b>	0.685217	0.557308 0.813126
<b>mCC</b>	2.293709	2.132416 2.455002

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.201280	-0.413801	0.011242
<b>3 1</b>	1.407212	1.174032	1.640393

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	259.5982905	51.9196581	362.71	<.0001
Error	151	21.6149410	0.1431453		
Corrected Total	156	281.2132315			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.923137	20.14171	0.378345	1.878418

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.6774215	4.6774215	32.68	<.0001
SEX	1	0.2153349	0.2153349	1.50	0.2219
UCPDGR1	1	0.0264621	0.0264621	0.18	0.6678
TRTP	2	254.6790720	127.3395360	889.58	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.5305261	4.5305261	31.65	<.0001
SEX	1	0.8511765	0.8511765	5.95	0.0159
UCPDGR1	1	0.3583374	0.3583374	2.50	0.1157
TRTP	2	254.6790720	127.3395360	889.58	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.09092406	<.0001
<b>THSm2.2</b>	1.13684538	<.0001
<b>mCC</b>	4.00084019	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.090924	0.970529	1.211319
<b>THSm2.2</b>	1.136845	1.050369	1.223322
<b>mCC</b>	4.000840	3.884751	4.116930

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.909916	-3.076562	-2.743270
<b>2 3</b>	-2.863995	-3.008031	-2.719959

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comppp1fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.09092406	
<b>THSm2.2</b>	1.13684538	0.5416
<b>mCC</b>	4.00084019	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.090924	0.970529 1.211319
<b>THSm2.2</b>	1.136845	1.050369 1.223322
<b>mCC</b>	4.000840	3.884751 4.116930

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.045921	-0.102395	0.194238
<b>3 1</b>	2.909916	2.743270	3.076562

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	218.5676287	43.7135257	87.54	<.0001
Error	137	68.4127714	0.4993633		
Corrected Total	142	286.9804002			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.761612	33.86665	0.706656	2.086585

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.7955518	0.7955518	1.59	0.2090
SEX	1	0.3596069	0.3596069	0.72	0.3976
UCPDGR1	1	0.4234357	0.4234357	0.85	0.3588
TRTP	2	216.9890344	108.4945172	217.27	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.1057247	1.1057247	2.21	0.1390
SEX	1	1.0117502	1.0117502	2.03	0.1569
UCPDGR1	1	1.1856708	1.1856708	2.37	0.1256
TRTP	2	216.9890344	108.4945172	217.27	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.47500763	<.0001
<b>THSm2.2</b>	1.23826152	<.0001
<b>mCC</b>	4.04385242	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.475008	1.243742	1.706274
<b>THSm2.2</b>	1.238262	1.063694	1.412829
<b>mCC</b>	4.043852	3.824183	4.263522

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.568845	-2.886264	-2.251426
<b>2 3</b>	-2.805591	-3.085214	-2.525968

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 1-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.47500763	
<b>THSm2.2</b>	1.23826152	0.1088
<b>mCC</b>	4.04385242	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.475008	1.243742 1.706274
<b>THSm2.2</b>	1.238262	1.063694 1.412829
<b>mCC</b>	4.043852	3.824183 4.263522

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.236746	-0.526791	0.053299
<b>3 1</b>	2.568845	2.251426	2.886264

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	127.3708354	25.4741671	233.02	<.0001
Error	151	16.5077482	0.1093228		
Corrected Total	156	143.8785836			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.885266	27.21112	0.330640	1.215092

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.7713990	7.7713990	71.09	<.0001
SEX	1	1.2859240	1.2859240	11.76	0.0008
UCPDGR1	1	0.1019668	0.1019668	0.93	0.3357
TRTP	2	118.2115456	59.1057728	540.65	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.6983281	5.6983281	52.12	<.0001
SEX	1	2.0484310	2.0484310	18.74	<.0001
UCPDGR1	1	0.0124876	0.0124876	0.11	0.7359
TRTP	2	118.2115456	59.1057728	540.65	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.76525682	<.0001
<b>THSm2.2</b>	0.67823239	<.0001
<b>mCC</b>	2.66916190	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.765257	0.659994 0.870520
<b>THSm2.2</b>	0.678232	0.602835 0.753630
<b>mCC</b>	2.669162	2.567627 2.770696

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.903905	-2.049892	-1.757918
<b>2 3</b>	-1.990930	-2.116630	-1.865229

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.76525682	
<b>THSm2.2</b>	0.67823239	0.1859
<b>mCC</b>	2.66916190	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.765257	0.659994 0.870520
<b>THSm2.2</b>	0.678232	0.602835 0.753630
<b>mCC</b>	2.669162	2.567627 2.770696

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.087024	-0.216429	0.042380
<b>3 1</b>	1.903905	1.757918	2.049892

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	101.3640158	20.2728032	100.64	<.0001
Error	137	27.5974325	0.2014411		
Corrected Total	142	128.9614483			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.786002	31.96875	0.448822	1.403940

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.30032949	2.30032949	11.42	0.0009
SEX	1	1.64587181	1.64587181	8.17	0.0049
UCPDGR1	1	0.00743806	0.00743806	0.04	0.8479
TRTP	2	97.41037648	48.70518824	241.78	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.79269242	1.79269242	8.90	0.0034
SEX	1	2.37821687	2.37821687	11.81	0.0008
UCPDGR1	1	0.25344324	0.25344324	1.26	0.2640
TRTP	2	97.41037648	48.70518824	241.78	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.01352472	<.0001
<b>THSm2.2</b>	0.83854758	<.0001
<b>mCC</b>	2.72253287	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.013525	0.866388 1.160661
<b>THSm2.2</b>	0.838548	0.727850 0.949245
<b>mCC</b>	2.722533	2.582964 2.862102

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.709008	-1.911149	-1.506867
<b>2 3</b>	-1.883985	-2.061292	-1.706678

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 2-NA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.01352472	
<b>THSm2.2</b>	0.83854758	0.0626
<b>mCC</b>	2.72253287	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.013525	0.866388 1.160661
<b>THSm2.2</b>	0.838548	0.727850 0.949245
<b>mCC</b>	2.722533	2.582964 2.862102

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.174977	-0.359277	0.009323
<b>3 1</b>	1.709008	1.506867	1.911149

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 155

**Number of Observations Used** 153

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	36.19713737	7.23942747	31.86	<.0001
Error	147	33.40034440	0.22721323		
Corrected Total	152	69.59748177			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.520093	11.51310	0.476669	4.140231

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.51676768	15.51676768	68.29	<.0001
SEX	1	0.77084619	0.77084619	3.39	0.0675
UCPDGR1	1	0.06592413	0.06592413	0.29	0.5909
TRTP	2	19.84359937	9.92179969	43.67	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	13.15429990	13.15429990	57.89	<.0001
SEX	1	1.04932201	1.04932201	4.62	0.0333
UCPDGR1	1	0.06052694	0.06052694	0.27	0.6065
TRTP	2	19.84359937	9.92179969	43.67	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.92681392	<.0001
<b>THSm2.2</b>	3.95445984	<.0001
<b>mCC</b>	4.78002378	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.926814	3.775485 4.078143
<b>THSm2.2</b>	3.954460	3.845896 4.063023
<b>mCC</b>	4.780024	4.626143 4.933905

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.853210	-1.068524	-0.637896
<b>2 3</b>	-0.825564	-1.012961	-0.638167

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	3.92681392	
THSm2.2	3.95445984	0.7690
mCC	4.78002378	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	3.926814	3.775485 4.078143
THSm2.2	3.954460	3.845896 4.063023
mCC	4.780024	4.626143 4.933905

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.027646	-0.158058	0.213350
3 1	0.853210	0.637896	1.068524

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 142

**Number of Observations Used** 139

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	29.0119036	5.8023807	7.90	<.0001
Error	133	97.7379938	0.7348721		
Corrected Total	138	126.7498975			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.228891	19.38568	0.857247	4.422063

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	20.66050037	20.66050037	28.11	<.0001
SEX	1	2.25127157	2.25127157	3.06	0.0824
UCPDGR1	1	0.15137985	0.15137985	0.21	0.6507
TRTP	2	5.94875185	2.97437593	4.05	0.0197

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	19.48048289	19.48048289	26.51	<.0001
SEX	1	2.46503339	2.46503339	3.35	0.0693
UCPDGR1	1	0.13840620	0.13840620	0.19	0.6650
TRTP	2	5.94875185	2.97437593	4.05	0.0197

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.38678985	0.0538
<b>THSm2.2</b>	4.27812668	0.0057
<b>mCC</b>	4.77498544	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.386790	4.107061 4.666519
<b>THSm2.2</b>	4.278127	4.067215 4.489038
<b>mCC</b>	4.774985	4.494696 5.055275

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.388196	-0.782750	0.006359
<b>2 3</b>	-0.496859	-0.846361	-0.147357

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: o-tol (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.38678985	
<b>THSm2.2</b>	4.27812668	0.5395
<b>mCC</b>	4.77498544	0.0538

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.386790	4.107061 4.666519
<b>THSm2.2</b>	4.278127	4.067215 4.489038
<b>mCC</b>	4.774985	4.494696 5.055275

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.108663	-0.458029	0.240703
<b>3 1</b>	0.388196	-0.006359	0.782750

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	120.5518135	24.1103627	241.14	<.0001
Error	151	15.0976285	0.0999843		
Corrected Total	156	135.6494420			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.888701	10.67488	0.316203	2.962123

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.58677363	28.58677363	285.91	<.0001
SEX	1	0.41978537	0.41978537	4.20	0.0422
UCPDGR1	1	0.01174904	0.01174904	0.12	0.7322
TRTP	2	91.53350544	45.76675272	457.74	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.02169926	27.02169926	270.26	<.0001
SEX	1	0.14362646	0.14362646	1.44	0.2326
UCPDGR1	1	0.03603238	0.03603238	0.36	0.5492
TRTP	2	91.53350544	45.76675272	457.74	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.45188773	<.0001
<b>THSm2.2</b>	2.51982710	<.0001
<b>mCC</b>	4.22208881	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.451888	2.351614 2.552162
<b>THSm2.2</b>	2.519827	2.447837 2.591817
<b>mCC</b>	4.222089	4.125066 4.319112

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.770201	-1.909218	-1.631184
<b>2 3</b>	-1.702262	-1.822475	-1.582049

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.45188773	
<b>THSm2.2</b>	2.51982710	0.2771
<b>mCC</b>	4.22208881	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.451888	2.351614 2.552162
<b>THSm2.2</b>	2.519827	2.447837 2.591817
<b>mCC</b>	4.222089	4.125066 4.319112

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.067939	-0.055133	0.191012
<b>3 1</b>	1.770201	1.631184	1.909218

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	177.1530776	35.4306155	77.91	<.0001
Error	137	62.2988363	0.4547360		
Corrected Total	142	239.4519139			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.739827	24.53814	0.674341	2.748135

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.4314482	11.4314482	25.14	<.0001
SEX	1	0.1360670	0.1360670	0.30	0.5853
UCPDGR1	1	0.1674754	0.1674754	0.37	0.5449
TRTP	2	165.4180869	82.7090435	181.88	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.7590669	11.7590669	25.86	<.0001
SEX	1	0.0003988	0.0003988	0.00	0.9764
UCPDGR1	1	0.7448676	0.7448676	1.64	0.2028
TRTP	2	165.4180869	82.7090435	181.88	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.14481729	<.0001
<b>THSm2.2</b>	2.02819152	<.0001
<b>mCC</b>	4.44939996	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.144817	1.924852 2.364782
<b>THSm2.2</b>	2.028192	1.862279 2.194104
<b>mCC</b>	4.449400	4.239771 4.659029

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.304583	-2.607014	-2.002152
<b>2 3</b>	-2.421208	-2.687595	-2.154822

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: CEMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.14481729	
<b>THSm2.2</b>	2.02819152	0.4028
<b>mCC</b>	4.44939996	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.144817	1.924852 2.364782
<b>THSm2.2</b>	2.028192	1.862279 2.194104
<b>mCC</b>	4.449400	4.239771 4.659029

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.116626	-0.391439	0.158188
<b>3 1</b>	2.304583	2.002152	2.607014

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	61.59201405	12.31840281	107.86	<.0001
Error	151	17.24509201	0.11420591		
Corrected Total	156	78.83710606			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.781257	4.685679	0.337944	7.212267

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	45.75198375	45.75198375	400.61	<.0001
SEX	1	0.73896197	0.73896197	6.47	0.0120
UCPDGR1	1	0.14902925	0.14902925	1.30	0.2551
TRTP	2	14.95203909	7.47601954	65.46	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	34.47944978	34.47944978	301.91	<.0001
SEX	1	0.86950039	0.86950039	7.61	0.0065
UCPDGR1	1	0.06821299	0.06821299	0.60	0.4408
TRTP	2	14.95203909	7.47601954	65.46	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.02275226	<.0001
<b>THSm2.2</b>	7.04398183	<.0001
<b>mCC</b>	7.73427722	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.022752	6.915541 7.129963
<b>THSm2.2</b>	7.043982	6.966959 7.121004
<b>mCC</b>	7.734277	7.630511 7.838044

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.711525	-0.860096	-0.562954
<b>2 3</b>	-0.690295	-0.818773	-0.561818

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.02275226	
<b>THSm2.2</b>	7.04398183	0.7502
<b>mCC</b>	7.73427722	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.022752	6.915541 7.129963
<b>THSm2.2</b>	7.043982	6.966959 7.121004
<b>mCC</b>	7.734277	7.630511 7.838044

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.021230	-0.110292	0.152751
<b>3 1</b>	0.711525	0.562954	0.860096

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	55.60904963	11.12180993	45.77	<.0001
Error	137	33.29113829	0.24300101		
Corrected Total	142	88.90018792			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.625522	6.427245	0.492951	7.669714

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	36.06205242	36.06205242	148.40	<.0001
SEX	1	0.45059321	0.45059321	1.85	0.1755
UCPDGR1	1	0.04197375	0.04197375	0.17	0.6783
TRTP	2	19.05443025	9.52721513	39.21	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.52443034	28.52443034	117.38	<.0001
SEX	1	0.55275803	0.55275803	2.27	0.1338
UCPDGR1	1	0.00183495	0.00183495	0.01	0.9309
TRTP	2	19.05443025	9.52721513	39.21	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.43538302	<.0001
<b>THSm2.2</b>	7.45343433	<.0001
<b>mCC</b>	8.25476724	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.435383	7.274594 7.596172
<b>THSm2.2</b>	7.453434	7.331889 7.574980
<b>mCC</b>	8.254767	8.101498 8.408036

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.819384	-1.040492	-0.598277
<b>2 3</b>	-0.801333	-0.996085	-0.606580

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HEMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.43538302	
<b>THSm2.2</b>	7.45343433	0.8593
<b>mCC</b>	8.25476724	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.435383	7.274594 7.596172
<b>THSm2.2</b>	7.453434	7.331889 7.574980
<b>mCC</b>	8.254767	8.101498 8.408036

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.018051	-0.182976	0.219079
<b>3 1</b>	0.819384	0.598277	1.040492

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	66.88878950	13.37775790	75.83	<.0001
Error	151	26.64046630	0.17642693		
Corrected Total	156	93.52925580			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.715164	12.58221	0.420032	3.338302

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.58816292	9.58816292	54.35	<.0001
SEX	1	2.14198879	2.14198879	12.14	0.0006
UCPDGR1	1	0.13159409	0.13159409	0.75	0.3892
TRTP	2	55.02704370	27.51352185	155.95	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.14241141	7.14241141	40.48	<.0001
SEX	1	2.78930807	2.78930807	15.81	0.0001
UCPDGR1	1	0.00421053	0.00421053	0.02	0.8774
TRTP	2	55.02704370	27.51352185	155.95	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.93393156	<.0001
<b>THSm2.2</b>	3.03457541	<.0001
<b>mCC</b>	4.33678759	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.933932	2.800392 3.067471
<b>THSm2.2</b>	3.034575	2.938775 3.130376
<b>mCC</b>	4.336788	4.207805 4.465771

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.402856	-1.588113	-1.217599
<b>2 3</b>	-1.302212	-1.461898	-1.142527

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.93393156	
<b>THSm2.2</b>	3.03457541	0.2278
<b>mCC</b>	4.33678759	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.933932	2.800392 3.067471
<b>THSm2.2</b>	3.034575	2.938775 3.130376
<b>mCC</b>	4.336788	4.207805 4.465771

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.100644	-0.063555	0.264842
<b>3 1</b>	1.402856	1.217599	1.588113

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	51.1495323	10.2299065	27.78	<.0001
Error	137	50.4516278	0.3682601		
Corrected Total	142	101.6011601			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.503435	16.42305	0.606844	3.695077

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.72325715	11.72325715	31.83	<.0001
SEX	1	3.98503928	3.98503928	10.82	0.0013
UCPDGR1	1	0.23241734	0.23241734	0.63	0.4283
TRTP	2	35.20881853	17.60440927	47.80	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.00827268	9.00827268	24.46	<.0001
SEX	1	4.71339791	4.71339791	12.80	0.0005
UCPDGR1	1	0.50373841	0.50373841	1.37	0.2442
TRTP	2	35.20881853	17.60440927	47.80	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.44194000	<.0001
<b>THSm2.2</b>	3.38986294	<.0001
<b>mCC</b>	4.50618440	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.441940	3.243340 3.640540
<b>THSm2.2</b>	3.389863	3.240043 3.539682
<b>mCC</b>	4.506184	4.317506 4.694862

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.064244	-1.337140	-0.791349
<b>2 3</b>	-1.116321	-1.356155	-0.876488

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: B[a]P (fg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.44194000	
<b>THSm2.2</b>	3.38986294	0.6798
<b>mCC</b>	4.50618440	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.441940	3.243340 3.640540
<b>THSm2.2</b>	3.389863	3.240043 3.539682
<b>mCC</b>	4.506184	4.317506 4.694862

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.052077	-0.301033	0.196879
<b>3 1</b>	1.064244	0.791349	1.337140

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	27.28736193	5.45747239	45.78	<.0001
Error	151	18.00150341	0.11921525		
Corrected Total	156	45.28886534			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.602518	6.871961	0.345276	5.024412

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.62759392	1.62759392	13.65	0.0003
SEX	1	1.94983047	1.94983047	16.36	<.0001
UCPDGR1	1	0.05898704	0.05898704	0.49	0.4829
TRTP	2	23.65095050	11.82547525	99.19	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.24795984	2.24795984	18.86	<.0001
SEX	1	2.33010453	2.33010453	19.55	<.0001
UCPDGR1	1	0.00805720	0.00805720	0.07	0.7952
TRTP	2	23.65095050	11.82547525	99.19	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.74844023	<.0001
<b>THSm2.2</b>	4.83956857	<.0001
<b>mCC</b>	5.68225691	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.748440	4.638952 4.857928
<b>THSm2.2</b>	4.839569	4.760958 4.918179
<b>mCC</b>	5.682257	5.576311 5.788203

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.933817	-1.085611	-0.782022
<b>2 3</b>	-0.842688	-0.973953	-0.711424

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.74844023	
<b>THSm2.2</b>	4.83956857	0.1823
<b>mCC</b>	5.68225691	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.748440	4.638952 4.857928
<b>THSm2.2</b>	4.839569	4.760958 4.918179
<b>mCC</b>	5.682257	5.576311 5.788203

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.091128	-0.043249	0.225506
<b>3 1</b>	0.933817	0.782022	1.085611

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	24.59426500	4.91885300	31.49	<.0001
Error	137	21.39991734	0.15620378		
Corrected Total	142	45.99418234			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.534726	7.547226	0.395226	5.236709

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.00108950	0.00108950	0.01	0.9336
SEX	1	11.32940493	11.32940493	72.53	<.0001
UCPDGR1	1	0.00042011	0.00042011	0.00	0.9587
TRTP	2	13.26335045	6.63167523	42.46	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.51649174	0.51649174	3.31	0.0712
SEX	1	12.10719073	12.10719073	77.51	<.0001
UCPDGR1	1	0.02185796	0.02185796	0.14	0.7089
TRTP	2	13.26335045	6.63167523	42.46	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.11266798	<.0001
<b>THSm2.2</b>	5.06766418	<.0001
<b>mCC</b>	5.75744659	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.112668	4.983591 5.241745
<b>THSm2.2</b>	5.067664	4.970361 5.164967
<b>mCC</b>	5.757447	5.634508 5.880386

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.644779	-0.822042	-0.467515
<b>2 3</b>	-0.689782	-0.846117	-0.533448

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HMPMA (ng/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.11266798	
<b>THSm2.2</b>	5.06766418	0.5822
<b>mCC</b>	5.75744659	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.112668	4.983591 5.241745
<b>THSm2.2</b>	5.067664	4.970361 5.164967
<b>mCC</b>	5.757447	5.634508 5.880386

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.045004	-0.206389	0.116381
<b>3 1</b>	0.644779	0.467515	0.822042

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	23.74387292	4.74877458	52.46	<.0001
Error	151	13.66804162	0.09051683		
Corrected Total	156	37.41191454			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.634661	3.817980	0.300860	7.880086

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	21.68235179	21.68235179	239.54	<.0001
SEX	1	1.30056966	1.30056966	14.37	0.0002
UCPDGR1	1	0.13876303	0.13876303	1.53	0.2176
TRTP	2	0.62218845	0.31109422	3.44	0.0347

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	12.11044347	12.11044347	133.79	<.0001
SEX	1	1.44852451	1.44852451	16.00	<.0001
UCPDGR1	1	0.15412719	0.15412719	1.70	0.1939
TRTP	2	0.62218845	0.31109422	3.44	0.0347

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.89871377	0.1574
<b>THSm2.2</b>	7.84281167	0.0097
<b>mCC</b>	7.99560736	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.898714	7.802892 7.994535
<b>THSm2.2</b>	7.842812	7.774253 7.911370
<b>mCC</b>	7.995607	7.901811 8.089404

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.096894	-0.231619	0.037832
<b>2 3</b>	-0.152796	-0.267992	-0.037599

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.89871377	
<b>THSm2.2</b>	7.84281167	0.3495
<b>mCC</b>	7.99560736	0.1574

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.898714	7.802892 7.994535
<b>THSm2.2</b>	7.842812	7.774253 7.911370
<b>mCC</b>	7.995607	7.901811 8.089404

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.055902	-0.173596	0.061792
<b>3 1</b>	0.096894	-0.037832	0.231619

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	30.76073012	6.15214602	18.06	<.0001
Error	137	46.67947580	0.34072610		
Corrected Total	142	77.44020592			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.397219	7.226681	0.583717	8.077256

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.86282672	28.86282672	84.71	<.0001
SEX	1	1.21775728	1.21775728	3.57	0.0608
UCPDGR1	1	0.01265177	0.01265177	0.04	0.8475
TRTP	2	0.66749435	0.33374718	0.98	0.3781

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	18.56182958	18.56182958	54.48	<.0001
SEX	1	1.03381425	1.03381425	3.03	0.0838
UCPDGR1	1	0.01260642	0.01260642	0.04	0.8478
TRTP	2	0.66749435	0.33374718	0.98	0.3781

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.19203107	0.1646
<b>THSm2.2</b>	8.08551124	0.4867
<b>mCC</b>	8.00362646	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.192031	8.000734 8.383328
<b>THSm2.2</b>	8.085511	7.941872 8.229150
<b>mCC</b>	8.003626	7.819362 8.187891

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.188405	-0.078235	0.455044
<b>2 3</b>	0.081885	-0.150266	0.314035

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-BMA (pg/mg creat), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.19203107	
<b>THSm2.2</b>	8.08551124	0.3796
<b>mCC</b>	8.00362646	0.1646

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.192031	8.000734 8.383328
<b>THSm2.2</b>	8.085511	7.941872 8.229150
<b>mCC</b>	8.003626	7.819362 8.187891

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.106520	-0.345460	0.132421
<b>3 1</b>	-0.188405	-0.455044	0.078235

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	400.7211378	80.1442276	456.23	<.0001
Error	151	26.5253721	0.1756647		
Corrected Total	156	427.2465099			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.937916	48.63318	0.419124	0.861806

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.0661011	24.0661011	137.00	<.0001
SEX	1	0.1723216	0.1723216	0.98	0.3235
UCPDGR1	1	0.0240082	0.0240082	0.14	0.7121
TRTP	2	376.4587070	188.2293535	1071.53	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.0716076	15.0716076	85.80	<.0001
SEX	1	0.0848198	0.0848198	0.48	0.4882
UCPDGR1	1	0.0706729	0.0706729	0.40	0.5269
TRTP	2	376.4587070	188.2293535	1071.53	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.83453658	<.0001
THSm2.2	1.80250387	0.0677
mCC	1.65410552	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.834537	-1.967512	-1.701561
THSm2.2	1.802504	1.707051	1.897956
mCC	1.654106	1.525504	1.782707

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-3.488642	-3.672959	-3.304325
2 3	0.148398	-0.010959	0.307755

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.83453658	
THSm2.2	1.80250387	<.0001
mCC	1.65410552	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.834537	-1.967512	-1.701561
THSm2.2	1.802504	1.707051	1.897956
mCC	1.654106	1.525504	1.782707

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	3.637040	3.473775	3.800306
3 1	3.488642	3.304325	3.672959

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	253.6690134	50.7338027	37.13	<.0001
Error	137	187.1701615	1.3662056		
Corrected Total	142	440.8391749			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.575423	100.9242	1.168848	1.158145

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	34.1674932	34.1674932	25.01	<.0001
SEX	1	0.8586990	0.8586990	0.63	0.4293
UCPDGR1	1	0.4455718	0.4455718	0.33	0.5689
TRTP	2	218.1972493	109.0986247	79.86	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	20.5589919	20.5589919	15.05	0.0002
SEX	1	0.6279367	0.6279367	0.46	0.4989
UCPDGR1	1	0.5833971	0.5833971	0.43	0.5146
TRTP	2	218.1972493	109.0986247	79.86	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-0.92351809	<.0001
THSm2.2	1.92607662	0.7943
mCC	1.86509237	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-0.923518	-1.305303	-0.541733
THSm2.2	1.926077	1.638387	2.213766
mCC	1.865092	1.501738	2.228446

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-2.788610	-3.313342	-2.263879
2 3	0.060984	-0.400688	0.522656

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NEQ (mg/g creat), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-0.92351809	
THSm2.2	1.92607662	<.0001
mCC	1.86509237	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-0.923518	-1.305303	-0.541733
THSm2.2	1.926077	1.638387	2.213766
mCC	1.865092	1.501738	2.228446

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	2.849595	2.372368	3.326821
3 1	2.788610	2.263879	3.313342

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	143.2469744	28.6493949	87.49	<.0001
Error	151	49.4438993	0.3274430		
Corrected Total	156	192.6908738			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.743403	11.16318	0.572226	5.126014

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.6340261	14.6340261	44.69	<.0001
SEX	1	0.5886292	0.5886292	1.80	0.1820
UCPDGR1	1	0.2995822	0.2995822	0.91	0.3403
TRTP	2	127.7247369	63.8623684	195.03	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.5224339	8.5224339	26.03	<.0001
SEX	1	0.3079900	0.3079900	0.94	0.3337
UCPDGR1	1	0.0002416	0.0002416	0.00	0.9784
TRTP	2	127.7247369	63.8623684	195.03	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.60401329	<.0001
<b>THSm2.2</b>	4.55678765	<.0001
<b>mCC</b>	6.61618897	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.604013	4.422378 4.785648
<b>THSm2.2</b>	4.556788	4.426491 4.687084
<b>mCC</b>	6.616189	6.440358 6.792020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.012176	-2.264371	-1.759981
<b>2 3</b>	-2.059401	-2.277253	-1.841550

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.60401329	
<b>THSm2.2</b>	4.55678765	0.6759
<b>mCC</b>	6.61618897	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.604013	4.422378 4.785648
<b>THSm2.2</b>	4.556788	4.426491 4.687084
<b>mCC</b>	6.616189	6.440358 6.792020

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.047226	-0.270012	0.175561
<b>3 1</b>	2.012176	1.759981	2.264371

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	114.8927976	22.9785595	54.05	<.0001
Error	137	58.2444831	0.4251422		
Corrected Total	142	173.1372807			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.663594	11.79097	0.652029	5.529902

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	31.54957850	31.54957850	74.21	<.0001
SEX	1	4.91014520	4.91014520	11.55	0.0009
UCPDGR1	1	0.05801471	0.05801471	0.14	0.7124
TRTP	2	78.37505920	39.18752960	92.18	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	18.06891306	18.06891306	42.50	<.0001
SEX	1	4.38321152	4.38321152	10.31	0.0016
UCPDGR1	1	0.58394704	0.58394704	1.37	0.2432
TRTP	2	78.37505920	39.18752960	92.18	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.05108725	<.0001
<b>THSm2.2</b>	5.03201403	<.0001
<b>mCC</b>	6.68326063	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.051087	4.838271 5.263903
<b>THSm2.2</b>	5.032014	4.871581 5.192448
<b>mCC</b>	6.683261	6.480086 6.886435

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.632173	-1.925408	-1.338938
<b>2 3</b>	-1.651247	-1.909432	-1.393061

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: MHBMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.05108725	
<b>THSm2.2</b>	5.03201403	0.8873
<b>mCC</b>	6.68326063	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.051087	4.838271	5.263903
<b>THSm2.2</b>	5.032014	4.871581	5.192448
<b>mCC</b>	6.683261	6.480086	6.886435

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.019073	-0.284733	0.246587
<b>3 1</b>	1.632173	1.338938	1.925408

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	38.94844286	7.78968857	62.29	<.0001
Error	151	18.88194606	0.12504600		
Corrected Total	156	57.83038892			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.673494	5.935553	0.353618	5.957632

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.78407423	6.78407423	54.25	<.0001
SEX	1	2.43615225	2.43615225	19.48	<.0001
UCPDGR1	1	0.06450554	0.06450554	0.52	0.4737
TRTP	2	29.66371084	14.83185542	118.61	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.29683027	5.29683027	42.36	<.0001
SEX	1	1.64957113	1.64957113	13.19	0.0004
UCPDGR1	1	0.04653608	0.04653608	0.37	0.5428
TRTP	2	29.66371084	14.83185542	118.61	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.39882523	<.0001
<b>THSm2.2</b>	5.85821888	<.0001
<b>mCC</b>	6.59315702	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.398825	5.286667	5.510983
<b>THSm2.2</b>	5.858219	5.777698	5.938739
<b>mCC</b>	6.593157	6.484371	6.701943

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.194332	-1.350149	-1.038514
<b>2 3</b>	-0.734938	-0.869528	-0.600348

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.39882523	
<b>THSm2.2</b>	5.85821888	<.0001
<b>mCC</b>	6.59315702	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.398825	5.286667 5.510983
<b>THSm2.2</b>	5.858219	5.777698 5.938739
<b>mCC</b>	6.593157	6.484371 6.701943

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.459394	0.321711	0.597076
<b>3 1</b>	1.194332	1.038514	1.350149

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	25.82043418	5.16408684	31.57	<.0001
Error	137	22.41245895	0.16359459		
Corrected Total	142	48.23289314			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.535328	6.575902	0.404468	6.150765

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.44122474	6.44122474	39.37	<.0001
SEX	1	2.64727177	2.64727177	16.18	<.0001
UCPDGR1	1	0.07977057	0.07977057	0.49	0.4862
TRTP	2	16.65216711	8.32608356	50.89	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.08764662	4.08764662	24.99	<.0001
SEX	1	2.14643334	2.14643334	13.12	0.0004
UCPDGR1	1	0.08941088	0.08941088	0.55	0.4610
TRTP	2	16.65216711	8.32608356	50.89	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.72351653	<.0001
<b>THSm2.2</b>	6.05615643	<.0001
<b>mCC</b>	6.63115106	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.723517	5.591587	5.855446
<b>THSm2.2</b>	6.056156	5.956655	6.155658
<b>mCC</b>	6.631151	6.504926	6.757376

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.907635	-1.089411	-0.725859
<b>2 3</b>	-0.574995	-0.735283	-0.414706

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 3-HPMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.72351653	
<b>THSm2.2</b>	6.05615643	0.0001
<b>mCC</b>	6.63115106	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.723517	5.591587 5.855446
<b>THSm2.2</b>	6.056156	5.956655 6.155658
<b>mCC</b>	6.631151	6.504926 6.757376

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.332640	0.167848	0.497432
<b>3 1</b>	0.907635	0.725859	1.089411

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	200.6843996	40.1368799	165.03	<.0001
Error	151	36.7247104	0.2432100		
Corrected Total	156	237.4091100			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.845310	8.940341	0.493163	5.516157

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	36.9456958	36.9456958	151.91	<.0001
SEX	1	0.9963216	0.9963216	4.10	0.0447
UCPDGR1	1	0.1956589	0.1956589	0.80	0.3712
TRTP	2	162.5467233	81.2733616	334.17	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	30.9005051	30.9005051	127.05	<.0001
SEX	1	0.4510245	0.4510245	1.85	0.1753
UCPDGR1	1	0.0007903	0.0007903	0.00	0.9546
TRTP	2	162.5467233	81.2733616	334.17	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.83699735	<.0001
<b>THSm2.2</b>	4.92177395	<.0001
<b>mCC</b>	7.19290260	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.836997	4.680597 4.993397
<b>THSm2.2</b>	4.921774	4.809495 5.034052
<b>mCC</b>	7.192903	7.041559 7.344247

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.355905	-2.572788	-2.139023
<b>2 3</b>	-2.271129	-2.458638	-2.083620

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.83699735	
<b>THSm2.2</b>	4.92177395	0.3842
<b>mCC</b>	7.19290260	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.836997	4.680597 4.993397
<b>THSm2.2</b>	4.921774	4.809495 5.034052
<b>mCC</b>	7.192903	7.041559 7.344247

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.084777	-0.107173	0.276726
<b>3 1</b>	2.355905	2.139023	2.572788

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	163.7683021	32.7536604	80.99	<.0001
Error	137	55.4055068	0.4044198		
Corrected Total	142	219.1738089			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.747207	11.22613	0.635940	5.664820

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	41.9674070	41.9674070	103.77	<.0001
SEX	1	0.1339006	0.1339006	0.33	0.5660
UCPDGR1	1	0.1625507	0.1625507	0.40	0.5271
TRTP	2	121.5044438	60.7522219	150.22	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	33.3075938	33.3075938	82.36	<.0001
SEX	1	0.0117462	0.0117462	0.03	0.8649
UCPDGR1	1	0.8211075	0.8211075	2.03	0.1565
TRTP	2	121.5044438	60.7522219	150.22	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.11674525	<.0001
<b>THSm2.2</b>	5.06431839	<.0001
<b>mCC</b>	7.12438665	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.116745	4.909299 5.324191
<b>THSm2.2</b>	5.064318	4.907907 5.220730
<b>mCC</b>	7.124387	6.926609 7.322164

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.007641	-2.292986	-1.722297
<b>2 3</b>	-2.060068	-2.311318	-1.808819

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-PMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.11674525	
<b>THSm2.2</b>	5.06431839	0.6897
<b>mCC</b>	7.12438665	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.116745	4.909299 5.324191
<b>THSm2.2</b>	5.064318	4.907907 5.220730
<b>mCC</b>	7.124387	6.926609 7.322164

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.052427	-0.311520	0.206666
<b>3 1</b>	2.007641	1.722297	2.292986

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	101.7546073	20.3509215	220.40	<.0001
Error	151	13.9427619	0.0923362		
Corrected Total	156	115.6973692			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.879489	7.644496	0.303869	3.974999

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	72.66867843	72.66867843	787.00	<.0001
SEX	1	1.03854186	1.03854186	11.25	0.0010
UCPDGR1	1	0.18129651	0.18129651	1.96	0.1632
TRTP	2	27.86609048	13.93304524	150.89	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	47.26835607	47.26835607	511.92	<.0001
SEX	1	0.85757336	0.85757336	9.29	0.0027
UCPDGR1	1	0.35505778	0.35505778	3.85	0.0517
TRTP	2	27.86609048	13.93304524	150.89	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.62178287	<.0001
<b>THSm2.2</b>	3.75948441	<.0001
<b>mCC</b>	4.65698897	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.621783	3.525243 3.718322
<b>THSm2.2</b>	3.759484	3.690302 3.828667
<b>mCC</b>	4.656989	4.563726 4.750252

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.035206	-1.168852	-0.901561
<b>2 3</b>	-0.897505	-1.013043	-0.781966

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.62178287	
<b>THSm2.2</b>	3.75948441	0.0229
<b>mCC</b>	4.65698897	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.621783	3.525243 3.718322
<b>THSm2.2</b>	3.759484	3.690302 3.828667
<b>mCC</b>	4.656989	4.563726 4.750252

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.137702	0.019301	0.256102
<b>3 1</b>	1.035206	0.901561	1.168852

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	130.1851645	26.0370329	46.00	<.0001
Error	137	77.5508652	0.5660647		
Corrected Total	142	207.7360298			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.626686	21.40008	0.752373	3.515748

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	48.51867850	48.51867850	85.71	<.0001
SEX	1	1.77811021	1.77811021	3.14	0.0786
UCPDGR1	1	2.18138074	2.18138074	3.85	0.0517
TRTP	2	77.70699507	38.85349754	68.64	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.88170096	24.88170096	43.96	<.0001
SEX	1	1.73193681	1.73193681	3.06	0.0825
UCPDGR1	1	3.04021078	3.04021078	5.37	0.0220
TRTP	2	77.70699507	38.85349754	68.64	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.80424257	<.0001
<b>THSm2.2</b>	3.19362101	<.0001
<b>mCC</b>	4.64571852	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.804243	2.558111 3.050374
<b>THSm2.2</b>	3.193621	3.008516 3.378726
<b>mCC</b>	4.645719	4.411702 4.879735

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.841476	-2.179076	-1.503876
<b>2 3</b>	-1.452098	-1.749502	-1.154693

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total NNAL (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.80424257	
<b>THSm2.2</b>	3.19362101	0.0134
<b>mCC</b>	4.64571852	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.804243	2.558111 3.050374
<b>THSm2.2</b>	3.193621	3.008516 3.378726
<b>mCC</b>	4.645719	4.411702 4.879735

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.389378	0.081946	0.696811
<b>3 1</b>	1.841476	1.503876	2.179076

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	44.45077530	8.89015506	57.45	<.0001
Error	151	23.36501343	0.15473519		
Corrected Total	156	67.81578874			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.655464	9.255243	0.393364	4.250174

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.76310844	11.76310844	76.02	<.0001
SEX	1	0.16626122	0.16626122	1.07	0.3016
UCPDGR1	1	0.00778849	0.00778849	0.05	0.8228
TRTP	2	32.51361715	16.25680858	105.06	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.32671606	8.32671606	53.81	<.0001
SEX	1	0.25053541	0.25053541	1.62	0.2052
UCPDGR1	1	0.13898383	0.13898383	0.90	0.3448
TRTP	2	32.51361715	16.25680858	105.06	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.94564321	<.0001
<b>THSm2.2</b>	4.00060813	<.0001
<b>mCC</b>	5.01219785	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.945643	3.820710 4.070577
<b>THSm2.2</b>	4.000608	3.911040 4.090176
<b>mCC</b>	5.012198	4.891340 5.133056

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.066555	-1.240006	-0.893103
<b>2 3</b>	-1.011590	-1.161330	-0.861849

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	3.94564321	
THSm2.2	4.00060813	0.4795
mCC	5.01219785	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	3.945643	3.820710 4.070577
THSm2.2	4.000608	3.911040 4.090176
mCC	5.012198	4.891340 5.133056

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.054965	-0.098233	0.208163
3 1	1.066555	0.893103	1.240006

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	17.87039729	3.57407946	18.35	<.0001
Error	137	26.67720757	0.19472414		
Corrected Total	142	44.54760486			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.401153	9.281247	0.441276	4.754486

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.93950234	5.93950234	30.50	<.0001
SEX	1	0.62460999	0.62460999	3.21	0.0755
UCPDGR1	1	0.36122801	0.36122801	1.86	0.1754
TRTP	2	10.94505695	5.47252847	28.10	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.28378456	3.28378456	16.86	<.0001
SEX	1	0.56352560	0.56352560	2.89	0.0912
UCPDGR1	1	0.61271844	0.61271844	3.15	0.0783
TRTP	2	10.94505695	5.47252847	28.10	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.61486582	<.0001
<b>THSm2.2</b>	4.55235551	<.0001
<b>mCC</b>	5.18605445	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.614866	4.470766 4.758966
<b>THSm2.2</b>	4.552356	4.443815 4.660896
<b>mCC</b>	5.186054	5.048710 5.323399

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.571189	-0.769575	-0.372802
<b>2 3</b>	-0.633699	-0.808168	-0.459230

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: Total 1-OHP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.61486582	
<b>THSm2.2</b>	4.55235551	0.4931
<b>mCC</b>	5.18605445	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.614866	4.470766 4.758966
<b>THSm2.2</b>	4.552356	4.443815 4.660896
<b>mCC</b>	5.186054	5.048710 5.323399

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.062510	-0.242374	0.117353
<b>3 1</b>	0.571189	0.372802	0.769575

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	301.4120724	60.2824145	170.53	<.0001
Error	151	53.3777918	0.3534953		
Corrected Total	156	354.7898642			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.849551	349.9606	0.594555	0.169892

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	66.5989690	66.5989690	188.40	<.0001
SEX	1	0.0292961	0.0292961	0.08	0.7738
UCPDGR1	1	0.2874985	0.2874985	0.81	0.3686
TRTP	2	234.4963088	117.2481544	331.68	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	61.5565217	61.5565217	174.14	<.0001
SEX	1	0.0434602	0.0434602	0.12	0.7264
UCPDGR1	1	0.7444302	0.7444302	2.11	0.1488
TRTP	2	234.4963088	117.2481544	331.68	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.70772854	<.0001
THSm2.2	0.31056443	<.0001
mCC	1.68003755	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.707729	-1.896304	-1.519153
THSm2.2	0.310564	0.175187	0.445942
mCC	1.680038	1.497373	1.862702

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-3.387766	-3.649195	-3.126338
2 3	-1.369473	-1.595789	-1.143157

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.70772854	
THSm2.2	0.31056443	<.0001
mCC	1.68003755	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.707729	-1.896304	-1.519153
THSm2.2	0.310564	0.175187	0.445942
mCC	1.680038	1.497373	1.862702

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	2.018293	1.786811	2.249775
3 1	3.387766	3.126338	3.649195

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	221.0007442	44.2001488	73.16	<.0001
Error	137	82.7710228	0.6041680		
Corrected Total	142	303.7717670			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.727522	232.8933	0.777282	0.333751

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	68.8830082	68.8830082	114.01	<.0001
SEX	1	0.0325596	0.0325596	0.05	0.8168
UCPDGR1	1	0.4945556	0.4945556	0.82	0.3672
TRTP	2	151.5906208	75.7953104	125.45	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	62.8845697	62.8845697	104.08	<.0001
SEX	1	0.0000271	0.0000271	0.00	0.9947
UCPDGR1	1	0.6843317	0.6843317	1.13	0.2891
TRTP	2	151.5906208	75.7953104	125.45	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.18430964	<.0001
<b>THSm2.2</b>	0.40708052	<.0001
<b>mCC</b>	1.60309266	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.184310	-1.437957	-0.930662
<b>THSm2.2</b>	0.407081	0.215807	0.598354
<b>mCC</b>	1.603093	1.361028	1.845157

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.787402	-3.136070	-2.438734
<b>2 3</b>	-1.196012	-1.503692	-0.888333

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NNN (ng), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.18430964	
THSm2.2	0.40708052	<.0001
mCC	1.60309266	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.184310	-1.437957	-0.930662
THSm2.2	0.407081	0.215807	0.598354
mCC	1.603093	1.361028	1.845157

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	1.591390	1.274410	1.908370
3 1	2.787402	2.438734	3.136070

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	85.2619102	17.0523820	81.45	<.0001
Error	151	31.6146122	0.2093683		
Corrected Total	156	116.8765224			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.729504	35.03933	0.457568	1.305869

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.55587857	5.55587857	26.54	<.0001
SEX	1	0.56744725	0.56744725	2.71	0.1018
UCPDGR1	1	0.29373738	0.29373738	1.40	0.2381
TRTP	2	78.84484701	39.42242350	188.29	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.96317439	3.96317439	18.93	<.0001
SEX	1	0.16539220	0.16539220	0.79	0.3755
UCPDGR1	1	0.51491934	0.51491934	2.46	0.1189
TRTP	2	78.84484701	39.42242350	188.29	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.00049734	<.0001
<b>THSm2.2</b>	0.81318722	<.0001
<b>mCC</b>	2.47115819	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.000497	0.854237 1.146758
<b>THSm2.2</b>	0.813187	0.708873 0.917501
<b>mCC</b>	2.471158	2.330577 2.611739

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.470661	-1.672140	-1.269182
<b>2 3</b>	-1.657971	-1.832380	-1.483562

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compplfl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.00049734	
<b>THSm2.2</b>	0.81318722	0.0411
<b>mCC</b>	2.47115819	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.000497	0.854237 1.146758
<b>THSm2.2</b>	0.813187	0.708873 0.917501
<b>mCC</b>	2.471158	2.330577 2.611739

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.187310	-0.366982	-0.007638
<b>3 1</b>	1.470661	1.269182	1.672140

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	74.2965281	14.8593056	48.47	<.0001
Error	137	42.0017822	0.3065824		
Corrected Total	142	116.2983104			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.638844	42.96968	0.553699	1.288580

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.92209869	4.92209869	16.05	0.0001
SEX	1	1.98380409	1.98380409	6.47	0.0121
UCPDGR1	1	1.51430785	1.51430785	4.94	0.0279
TRTP	2	65.87631749	32.93815874	107.44	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.77271808	1.77271808	5.78	0.0175
SEX	1	1.46842108	1.46842108	4.79	0.0303
UCPDGR1	1	2.21741238	2.21741238	7.23	0.0080
TRTP	2	65.87631749	32.93815874	107.44	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.98806763	<.0001
<b>THSm2.2</b>	0.77822806	<.0001
<b>mCC</b>	2.34573770	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.988068	0.806735 1.169400
<b>THSm2.2</b>	0.778228	0.641953 0.914503
<b>mCC</b>	2.345738	2.173509 2.517966

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.357670	-1.606200	-1.109140
<b>2 3</b>	-1.567510	-1.786465	-1.348555

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 4-ABP (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.98806763	
<b>THSm2.2</b>	0.77822806	0.0692
<b>mCC</b>	2.34573770	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.988068	0.806735 1.169400
<b>THSm2.2</b>	0.778228	0.641953 0.914503
<b>mCC</b>	2.345738	2.173509 2.517966

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.209840	-0.436426	0.016746
<b>3 1</b>	1.357670	1.109140	1.606200

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	267.6607487	53.5321497	304.85	<.0001
Error	151	26.5154720	0.1755992		
Corrected Total	156	294.1762208			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.909865	20.33175	0.419046	2.061041

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.4269589	4.4269589	25.21	<.0001
SEX	1	1.8094085	1.8094085	10.30	0.0016
UCPDGR1	1	0.1607340	0.1607340	0.92	0.3402
TRTP	2	261.2636473	130.6318237	743.92	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.2848258	3.2848258	18.71	<.0001
SEX	1	0.5352528	0.5352528	3.05	0.0829
UCPDGR1	1	0.4849917	0.4849917	2.76	0.0986
TRTP	2	261.2636473	130.6318237	743.92	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.26778139	<.0001
<b>THSm2.2</b>	1.27658419	<.0001
<b>mCC</b>	4.19215507	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.267781	1.134103 1.401459
<b>THSm2.2</b>	1.276584	1.181027 1.372142
<b>mCC</b>	4.192155	4.063398 4.320912

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.924374	-3.108767	-2.739980
<b>2 3</b>	-2.915571	-3.075347	-2.755795

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.26778139	
<b>THSm2.2</b>	1.27658419	0.9158
<b>mCC</b>	4.19215507	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.267781	1.134103 1.401459
<b>THSm2.2</b>	1.276584	1.181027 1.372142
<b>mCC</b>	4.192155	4.063398 4.320912

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.008803	-0.155513	0.173118
<b>3 1</b>	2.924374	2.739980	3.108767

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	219.3841179	43.8768236	85.93	<.0001
Error	137	69.9527331	0.5106039		
Corrected Total	142	289.3368509			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.758231	32.53751	0.714566	2.196129

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.3246541	5.3246541	10.43	0.0016
SEX	1	2.6135790	2.6135790	5.12	0.0252
UCPDGR1	1	0.5925793	0.5925793	1.16	0.2832
TRTP	2	210.8533055	105.4266528	206.47	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.6753674	3.6753674	7.20	0.0082
SEX	1	1.0852635	1.0852635	2.13	0.1472
UCPDGR1	1	1.1763836	1.1763836	2.30	0.1314
TRTP	2	210.8533055	105.4266528	206.47	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.58287097	<.0001
<b>THSm2.2</b>	1.32809102	<.0001
<b>mCC</b>	4.10245882	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	1.582871	1.348796	1.816946
<b>THSm2.2</b>	1.328091	1.152026	1.504156
<b>mCC</b>	4.102459	3.880002	4.324916

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.519588	-2.840199	-2.198977
<b>2 3</b>	-2.774368	-3.057482	-2.491254

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 1-NA (ng), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	1.58287097	
THSm2.2	1.32809102	0.0877
mCC	4.10245882	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	1.582871	1.348796	1.816946
THSm2.2	1.328091	1.152026	1.504156
mCC	4.102459	3.880002	4.324916

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.254780	-0.547679	0.038119
3 1	2.519588	2.198977	2.840199

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	130.9638218	26.1927644	190.98	<.0001
Error	151	20.7099425	0.1371519		
Corrected Total	156	151.6737643			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.863457	26.49613	0.370340	1.397715

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.0576265	7.0576265	51.46	<.0001
SEX	1	0.1785152	0.1785152	1.30	0.2557
UCPDGR1	1	0.0431270	0.0431270	0.31	0.5758
TRTP	2	123.6845531	61.8422765	450.90	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.7696958	4.7696958	34.78	<.0001
SEX	1	0.0225540	0.0225540	0.16	0.6857
UCPDGR1	1	0.0257199	0.0257199	0.19	0.6656
TRTP	2	123.6845531	61.8422765	450.90	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.94470209	<.0001
<b>THSm2.2</b>	0.81718659	<.0001
<b>mCC</b>	2.86394177	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.944702	0.826504 1.062901
<b>THSm2.2</b>	0.817187	0.732844 0.901529
<b>mCC</b>	2.863942	2.750302 2.977581

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.919240	-2.082516	-1.755964
<b>2 3</b>	-2.046755	-2.187588	-1.905922

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	0.94470209	
<b>THSm2.2</b>	0.81718659	0.0843
<b>mCC</b>	2.86394177	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	0.944702	0.826504 1.062901
<b>THSm2.2</b>	0.817187	0.732844 0.901529
<b>mCC</b>	2.863942	2.750302 2.977581

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.127515	-0.272490	0.017459
<b>3 1</b>	1.919240	1.755964	2.082516

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	99.8763440	19.9752688	89.93	<.0001
Error	137	30.4303643	0.2221194		
Corrected Total	142	130.3067083			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.766471	31.13979	0.471295	1.513483

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.17891288	6.17891288	27.82	<.0001
SEX	1	0.69208125	0.69208125	3.12	0.0798
UCPDGR1	1	0.07738108	0.07738108	0.35	0.5560
TRTP	2	92.92796880	46.46398440	209.18	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.74090384	3.74090384	16.84	<.0001
SEX	1	0.33369010	0.33369010	1.50	0.2224
UCPDGR1	1	0.39959962	0.39959962	1.80	0.1820
TRTP	2	92.92796880	46.46398440	209.18	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.11953706	<.0001
<b>THSm2.2</b>	0.93272265	<.0001
<b>mCC</b>	2.77729074	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.119537	0.964860 1.274214
<b>THSm2.2</b>	0.932723	0.816704 1.048741
<b>mCC</b>	2.777291	2.630758 2.923823

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.657754	-1.869599	-1.445909
<b>2 3</b>	-1.844568	-2.030859	-1.658277

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: 2-NA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	1.11953706	
<b>THSm2.2</b>	0.93272265	0.0580
<b>mCC</b>	2.77729074	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	1.119537	0.964860 1.274214
<b>THSm2.2</b>	0.932723	0.816704 1.048741
<b>mCC</b>	2.777291	2.630758 2.923823

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.186814	-0.380087	0.006459
<b>3 1</b>	1.657754	1.445909	1.869599

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 155

**Number of Observations Used** 153

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	37.29742835	7.45948567	32.04	<.0001
Error	147	34.22433119	0.23281858		
Corrected Total	152	71.52175954			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.521484	11.16814	0.482513	4.320441

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.36731464	15.36731464	66.01	<.0001
SEX	1	0.23446336	0.23446336	1.01	0.3173
UCPDGR1	1	0.02561729	0.02561729	0.11	0.7406
TRTP	2	21.67003306	10.83501653	46.54	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.84471691	11.84471691	50.88	<.0001
SEX	1	0.13382264	0.13382264	0.57	0.4496
UCPDGR1	1	0.02936147	0.02936147	0.13	0.7230
TRTP	2	21.67003306	10.83501653	46.54	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.10859829	<.0001
THSm2.2	4.09397807	<.0001
mCC	4.97086053	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.108598	3.955277 4.261919
THSm2.2	4.093978	3.984074 4.203882
mCC	4.970861	4.815295 5.126426

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.862262	-1.079983	-0.644542
2 3	-0.876882	-1.066469	-0.687296

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp1fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.10859829	
<b>THSm2.2</b>	4.09397807	0.8781
<b>mCC</b>	4.97086053	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.108598	3.955277 4.261919
<b>THSm2.2</b>	4.093978	3.984074 4.203882
<b>mCC</b>	4.970861	4.815295 5.126426

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.014620	-0.202600	0.173360
<b>3 1</b>	0.862262	0.644542	1.079983

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 142

**Number of Observations Used** 139

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	31.8152004	6.3630401	8.94	<.0001
Error	133	94.6236759	0.7114562		
Corrected Total	138	126.4388763			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.251625	18.61129	0.843479	4.532081

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.74304975	26.74304975	37.59	<.0001
SEX	1	0.03526067	0.03526067	0.05	0.8242
UCPDGR1	1	0.04137083	0.04137083	0.06	0.8098
TRTP	2	4.99551915	2.49775957	3.51	0.0327

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.39422117	24.39422117	34.29	<.0001
SEX	1	0.06887710	0.06887710	0.10	0.7562
UCPDGR1	1	0.03870800	0.03870800	0.05	0.8159
TRTP	2	4.99551915	2.49775957	3.51	0.0327

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.48701973	0.0726
<b>THSm2.2</b>	4.38680043	0.0098
<b>mCC</b>	4.84206364	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.487020	4.211754 4.762286
<b>THSm2.2</b>	4.386800	4.179215 4.594386
<b>mCC</b>	4.842064	4.566404 5.117724

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.355044	-0.743086	0.032999
<b>2 3</b>	-0.455263	-0.799059	-0.111468

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: o-tol (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.48701973	
<b>THSm2.2</b>	4.38680043	0.5651
<b>mCC</b>	4.84206364	0.0726

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.487020	4.211754 4.762286
<b>THSm2.2</b>	4.386800	4.179215 4.594386
<b>mCC</b>	4.842064	4.566404 5.117724

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.100219	-0.443956	0.243517
<b>3 1</b>	0.355044	-0.032999	0.743086

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	127.1117571	25.4223514	198.75	<.0001
Error	151	19.3149254	0.1279134		
Corrected Total	156	146.4266825			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.868091	11.37293	0.357650	3.144746

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	28.21555332	28.21555332	220.58	<.0001
SEX	1	2.31091025	2.31091025	18.07	<.0001
UCPDGR1	1	0.00800900	0.00800900	0.06	0.8028
TRTP	2	96.57728451	48.28864226	377.51	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	19.85881559	19.85881559	155.25	<.0001
SEX	1	1.41295519	1.41295519	11.05	0.0011
UCPDGR1	1	0.11904968	0.11904968	0.93	0.3362
TRTP	2	96.57728451	48.28864226	377.51	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.64239802	<.0001
<b>THSm2.2</b>	2.66371764	<.0001
<b>mCC</b>	4.43009698	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.642398	2.528992 2.755804
<b>THSm2.2</b>	2.663718	2.582254 2.745181
<b>mCC</b>	4.430097	4.320268 4.539926

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.787699	-1.944978	-1.630420
<b>2 3</b>	-1.766379	-1.902362	-1.630397

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.64239802	
<b>THSm2.2</b>	2.66371764	0.7626
<b>mCC</b>	4.43009698	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.642398	2.528992 2.755804
<b>THSm2.2</b>	2.663718	2.582254 2.745181
<b>mCC</b>	4.430097	4.320268 4.539926

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.021320	-0.117883	0.160522
<b>3 1</b>	1.787699	1.630420	1.944978

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: compp4fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	185.3151995	37.0630399	85.95	<.0001
Error	137	59.0788890	0.4312328		
Corrected Total	142	244.3940884			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.758264	22.97961	0.656683	2.857678

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	20.5144853	20.5144853	47.57	<.0001
SEX	1	3.8467789	3.8467789	8.92	0.0033
UCPDGR1	1	0.4580781	0.4580781	1.06	0.3045
TRTP	2	160.4958572	80.2479286	186.09	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.2030226	14.2030226	32.94	<.0001
SEX	1	2.3095721	2.3095721	5.36	0.0221
UCPDGR1	1	1.1446129	1.1446129	2.65	0.1056
TRTP	2	160.4958572	80.2479286	186.09	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.24332972	<.0001
<b>THSm2.2</b>	2.13288050	<.0001
<b>mCC</b>	4.51755923	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.243330	2.029099 2.457561
<b>THSm2.2</b>	2.132881	1.971370 2.294391
<b>mCC</b>	4.517559	4.313168 4.721950

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-2.274230	-2.568809	-1.979650
<b>2 3</b>	-2.384679	-2.644204	-2.125154

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: CEMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.24332972	
<b>THSm2.2</b>	2.13288050	0.4158
<b>mCC</b>	4.51755923	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.243330	2.029099 2.457561
<b>THSm2.2</b>	2.132881	1.971370 2.294391
<b>mCC</b>	4.517559	4.313168 4.721950

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.110449	-0.378011	0.157112
<b>3 1</b>	2.274230	1.979650	2.568809

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	44.42370185	8.88474037	60.00	<.0001
Error	151	22.36174782	0.14809105		
Corrected Total	156	66.78544967			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.665170	5.203945	0.384826	7.394890

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.20685048	27.20685048	183.72	<.0001
SEX	1	0.03649505	0.03649505	0.25	0.6203
UCPDGR1	1	0.13026274	0.13026274	0.88	0.3498
TRTP	2	17.05009358	8.52504679	57.57	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.01423124	27.01423124	182.42	<.0001
SEX	1	0.07568058	0.07568058	0.51	0.4758
UCPDGR1	1	0.05469189	0.05469189	0.37	0.5443
TRTP	2	17.05009358	8.52504679	57.57	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.21337944	<.0001
<b>THSm2.2</b>	7.19023137	<.0001
<b>mCC</b>	7.94295355	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.213379	7.091343 7.335416
<b>THSm2.2</b>	7.190231	7.102591 7.277872
<b>mCC</b>	7.942954	7.824875 8.061032

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.729574	-0.898764	-0.560385
<b>2 3</b>	-0.752722	-0.899035	-0.606410

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.21337944	
<b>THSm2.2</b>	7.19023137	0.7605
<b>mCC</b>	7.94295355	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.213379	7.091343 7.335416
<b>THSm2.2</b>	7.190231	7.102591 7.277872
<b>mCC</b>	7.942954	7.824875 8.061032

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.023148	-0.172916	0.126620
<b>3 1</b>	0.729574	0.560385	0.898764

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	46.06400198	9.21280040	38.47	<.0001
Error	137	32.81230572	0.23950588		
Corrected Total	142	78.87630770			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.584003	6.291004	0.489393	7.779257

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	27.89874724	27.89874724	116.48	<.0001
SEX	1	0.63609470	0.63609470	2.66	0.1055
UCPDGR1	1	0.00448445	0.00448445	0.02	0.8914
TRTP	2	17.52467558	8.76233779	36.59	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	29.54099786	29.54099786	123.34	<.0001
SEX	1	0.49951009	0.49951009	2.09	0.1510
UCPDGR1	1	0.04695702	0.04695702	0.20	0.6586
TRTP	2	17.52467558	8.76233779	36.59	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	7.53409437	<.0001
<b>THSm2.2</b>	7.55943467	<.0001
<b>mCC</b>	8.32505844	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	7.534094	7.374461 7.693728
<b>THSm2.2</b>	7.559435	7.438925 7.679944
<b>mCC</b>	8.325058	8.172919 8.477198

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.790964	-1.010449	-0.571479
<b>2 3</b>	-0.765624	-0.959046	-0.572201

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HEMA (ng), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	7.53409437	
THSm2.2	7.55943467	0.8021
mCC	8.32505844	<.0001

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	7.534094	7.374461 7.693728
THSm2.2	7.559435	7.438925 7.679944
mCC	8.325058	8.172919 8.477198

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.025340	-0.174172	0.224853
3 1	0.790964	0.571479	1.010449

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	65.64931120	13.12986224	66.86	<.0001
Error	151	29.65251433	0.19637427		
Corrected Total	156	95.30182553			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.688857	12.58594	0.443141	3.520925

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.19789112	7.19789112	36.65	<.0001
SEX	1	0.06651836	0.06651836	0.34	0.5614
UCPDGR1	1	0.06114173	0.06114173	0.31	0.5777
TRTP	2	58.32375999	29.16188000	148.50	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.83856112	5.83856112	29.73	<.0001
SEX	1	0.00486776	0.00486776	0.02	0.8751
UCPDGR1	1	0.00049956	0.00049956	0.00	0.9598
TRTP	2	58.32375999	29.16188000	148.50	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.11048378	<.0001
<b>THSm2.2</b>	3.17294949	<.0001
<b>mCC</b>	4.52887665	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.110484	2.969425 3.251542
<b>THSm2.2</b>	3.172949	3.071996 3.273903
<b>mCC</b>	4.528877	4.392905 4.664848

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.418393	-1.613623	-1.223163
<b>2 3</b>	-1.355927	-1.524430	-1.187425

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.11048378	
<b>THSm2.2</b>	3.17294949	0.4772
<b>mCC</b>	4.52887665	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	3.110484	2.969425 3.251542
<b>THSm2.2</b>	3.172949	3.071996 3.273903
<b>mCC</b>	4.528877	4.392905 4.664848

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.062466	-0.110736	0.235668
<b>3 1</b>	1.418393	1.223163	1.613623

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	44.67055290	8.93411058	22.71	<.0001
Error	137	53.89101073	0.39336504		
Corrected Total	142	98.56156363			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.453225	16.48491	0.627188	3.804620

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.33089639	11.33089639	28.81	<.0001
SEX	1	0.00047232	0.00047232	0.00	0.9724
UCPDGR1	1	0.65148104	0.65148104	1.66	0.2003
TRTP	2	32.68770315	16.34385158	41.55	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.28480429	9.28480429	23.60	<.0001
SEX	1	0.01465921	0.01465921	0.04	0.8472
UCPDGR1	1	1.00601980	1.00601980	2.56	0.1121
TRTP	2	32.68770315	16.34385158	41.55	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	3.53730783	<.0001
<b>THSm2.2</b>	3.49167714	<.0001
<b>mCC</b>	4.56591017	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	3.537308	3.331981	3.742635
<b>THSm2.2</b>	3.491677	3.337146	3.646208
<b>mCC</b>	4.565910	4.370925	4.760895

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-1.028602	-1.310267	-0.746938
<b>2 3</b>	-1.074233	-1.322222	-0.826244

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: B[a]P (pg), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	3.53730783	
THSm2.2	3.49167714	0.7260
mCC	4.56591017	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	3.537308	3.331981	3.742635
THSm2.2	3.491677	3.337146	3.646208
mCC	4.565910	4.370925	4.760895

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.045631	-0.302554	0.211293
3 1	1.028602	0.746938	1.310267

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	29.44471977	5.88894395	41.74	<.0001
Error	151	21.30594267	0.14109896		
Corrected Total	156	50.75066244			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.580184	7.213921	0.375631	5.207035

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.61115626	3.61115626	25.59	<.0001
SEX	1	0.19905805	0.19905805	1.41	0.2368
UCPDGR1	1	0.05159165	0.05159165	0.37	0.5463
TRTP	2	25.58291381	12.79145690	90.66	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.46513903	2.46513903	17.47	<.0001
SEX	1	0.06148992	0.06148992	0.44	0.5102
UCPDGR1	1	0.00807847	0.00807847	0.06	0.8112
TRTP	2	25.58291381	12.79145690	90.66	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.92835565	<.0001
<b>THSm2.2</b>	4.97526910	<.0001
<b>mCC</b>	5.87133498	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.928356	4.809173 5.047538
<b>THSm2.2</b>	4.975269	4.889685 5.060854
<b>mCC</b>	5.871335	5.755866 5.986804

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.942979	-1.108141	-0.777818
<b>2 3</b>	-0.896066	-1.038918	-0.753214

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.92835565	
<b>THSm2.2</b>	4.97526910	0.5270
<b>mCC</b>	5.87133498	<.0001

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.928356	4.809173 5.047538
<b>THSm2.2</b>	4.975269	4.889685 5.060854
<b>mCC</b>	5.871335	5.755866 5.986804

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	0.046913	-0.099279	0.193106
<b>3 1</b>	0.942979	0.777818	1.108141

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.94447081	2.78889416	13.09	<.0001
Error	137	29.19658139	0.21311373		
Corrected Total	142	43.14105220			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.323230	8.634879	0.461642	5.346252

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.04387738	1.04387738	4.90	0.0285
SEX	1	1.01188850	1.01188850	4.75	0.0310
UCPDGR1	1	0.05372125	0.05372125	0.25	0.6164
TRTP	2	11.83498369	5.91749184	27.77	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.40731121	2.40731121	11.30	0.0010
SEX	1	1.38595340	1.38595340	6.50	0.0119
UCPDGR1	1	0.11612371	0.11612371	0.54	0.4617
TRTP	2	11.83498369	5.91749184	27.77	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21483111	<.0001
<b>THSm2.2</b>	5.16164062	<.0001
<b>mCC</b>	5.81720743	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.214831	5.063982	5.365681
<b>THSm2.2</b>	5.161641	5.048095	5.275186
<b>mCC</b>	5.817207	5.673179	5.961236

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.602376	-0.809441	-0.395312
<b>2 3</b>	-0.655567	-0.838375	-0.472759

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: HMPMA (ug), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.21483111	
<b>THSm2.2</b>	5.16164062	0.5775
<b>mCC</b>	5.81720743	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.214831	5.063982	5.365681
<b>THSm2.2</b>	5.161641	5.048095	5.275186
<b>mCC</b>	5.817207	5.673179	5.961236

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.053190	-0.241545	0.135164
<b>3 1</b>	0.602376	0.395312	0.809441

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.09326684	2.61865337	18.94	<.0001
Error	151	20.87252728	0.13822866		
Corrected Total	156	33.96579412			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.385484	4.611243	0.371791	8.062709

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	11.44613217	11.44613217	82.81	<.0001
SEX	1	0.19481311	0.19481311	1.41	0.2370
UCPDGR1	1	0.10932814	0.10932814	0.79	0.3752
TRTP	2	1.34299341	0.67149671	4.86	0.0090

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	10.38238350	10.38238350	75.11	<.0001
SEX	1	0.24193851	0.24193851	1.75	0.1878
UCPDGR1	1	0.13152051	0.13152051	0.95	0.3309
TRTP	2	1.34299341	0.67149671	4.86	0.0090

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.07953145	0.1205
<b>THSm2.2</b>	7.98715151	0.0022
<b>mCC</b>	8.21045715	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.079531	7.960855 8.198207
<b>THSm2.2</b>	7.987152	7.902504 8.071799
<b>mCC</b>	8.210457	8.095598 8.325317

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.130926	-0.296595	0.034744
<b>2 3</b>	-0.223306	-0.365229	-0.081383

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.07953145	
<b>THSm2.2</b>	7.98715151	0.2113
<b>mCC</b>	8.21045715	0.1205

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.079531	7.960855 8.198207
<b>THSm2.2</b>	7.987152	7.902504 8.071799
<b>mCC</b>	8.210457	8.095598 8.325317

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.092380	-0.237772	0.053012
<b>3 1</b>	0.130926	-0.034744	0.296595

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	23.23226126	4.64645225	13.25	<.0001
Error	137	48.02763687	0.35056669		
Corrected Total	142	71.25989813			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.326022	7.232213	0.592087	8.186799

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	22.25204739	22.25204739	63.47	<.0001
SEX	1	0.01919355	0.01919355	0.05	0.8153
UCPDGR1	1	0.02833650	0.02833650	0.08	0.7766
TRTP	2	0.93268383	0.46634191	1.33	0.2678

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	22.91592056	22.91592056	65.37	<.0001
SEX	1	0.01327007	0.01327007	0.04	0.8460
UCPDGR1	1	0.02472449	0.02472449	0.07	0.7910
TRTP	2	0.93268383	0.46634191	1.33	0.2678

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.29770228	0.1067
<b>THSm2.2</b>	8.19763684	0.3115
<b>mCC</b>	8.07695724	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.297702	8.103534 8.491871
<b>THSm2.2</b>	8.197637	8.052013 8.343261
<b>mCC</b>	8.076957	7.891611 8.262303

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.220745	-0.048092	0.489582
<b>2 3</b>	0.120680	-0.114236	0.355595

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: S-BMA (ng), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	8.29770228	
<b>THSm2.2</b>	8.19763684	0.4150
<b>mCC</b>	8.07695724	0.1067

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	8.297702	8.103534 8.491871
<b>THSm2.2</b>	8.197637	8.052013 8.343261
<b>mCC</b>	8.076957	7.891611 8.262303

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.100065	-0.342066	0.141935
<b>3 1</b>	-0.220745	-0.489582	0.048092

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	404.7148144	80.9429629	417.12	<.0001
Error	151	29.3021578	0.1940540		
Corrected Total	156	434.0169722			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.932486	42.17765	0.440516	1.044429

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	31.4552502	31.4552502	162.10	<.0001
SEX	1	1.4392450	1.4392450	7.42	0.0072
UCPDGR1	1	0.0072750	0.0072750	0.04	0.8467
TRTP	2	371.8130442	185.9065221	958.01	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.2770440	14.2770440	73.57	<.0001
SEX	1	1.6161803	1.6161803	8.33	0.0045
UCPDGR1	1	0.0929168	0.0929168	0.48	0.4900
TRTP	2	371.8130442	185.9065221	958.01	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-1.64886460	<.0001
<b>THSm2.2</b>	1.94530895	0.3023
<b>mCC</b>	1.85752098	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-1.648865	-1.788757	-1.508972
<b>THSm2.2</b>	1.945309	1.845016	2.045602
<b>mCC</b>	1.857521	1.722212	1.992830

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-3.506386	-3.700056	-3.312715
<b>2 3</b>	0.087788	-0.079786	0.255362

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp1fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 5

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.64886460	
THSm2.2	1.94530895	<.0001
mCC	1.85752098	<.0001

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.648865	-1.788757	-1.508972
THSm2.2	1.945309	1.845016	2.045602
mCC	1.857521	1.722212	1.992830

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LSMean(i)-LSMean(j)		
2	1	3.594174	3.422576	3.765771
3	1	3.506386	3.312715	3.700056

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 143

**Number of Observations Used** 143

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	261.2293939	52.2458788	40.52	<.0001
Error	137	176.6531508	1.2894391		
Corrected Total	142	437.8825447			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.596574	89.57522	1.135535	1.267688

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	42.1316940	42.1316940	32.67	<.0001
SEX	1	0.0000003	0.0000003	0.00	0.9996
UCPDGR1	1	0.9683049	0.9683049	0.75	0.3877
TRTP	2	218.1293946	109.0646973	84.58	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	22.3348500	22.3348500	17.32	<.0001
SEX	1	0.1633993	0.1633993	0.13	0.7224
UCPDGR1	1	0.9935958	0.9935958	0.77	0.3816
TRTP	2	218.1293946	109.0646973	84.58	<.0001

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-0.82347969	<.0001
THSm2.2	2.03526998	0.6740
mCC	1.93962786	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-0.823480	-1.194535	-0.452425
THSm2.2	2.035270	1.755980	2.314560
mCC	1.939628	1.586440	2.292816

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-2.763108	-3.272480	-2.253735
2 3	0.095642	-0.353029	0.544313

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.3.7 Sensitivity Analysis of Additional Biomarkers of Exposure versus mCC and SA on Day 5 and Day 90 Visit - Compliant Population**

The where clause used on the dataset adam.adbx: comp4fl='Y' and anl02fl='Y'  
param: NEQ (mg), avisit: Day 90

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	-0.82347969	
<b>THSm2.2</b>	2.03526998	<.0001
<b>mCC</b>	1.93962786	<.0001

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	-0.823480	-1.194535	-0.452425
<b>THSm2.2</b>	2.035270	1.755980	2.314560
<b>mCC</b>	1.939628	1.586440	2.292816

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	2.858750	2.395478	3.322022
<b>3 1</b>	2.763108	2.253735	3.272480

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



#### **15.4.4 Secondary Endpoints**

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: NIC, Day 1 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116
<b>Number of Observations Not Used</b>	0



## Fit Statistics

<b>-2 Res Log Likelihood</b>	200.4
<b>AIC (Smaller is Better)</b>	202.4
<b>AICC (Smaller is Better)</b>	202.4
<b>BIC (Smaller is Better)</b>	205.1

## Type 3 Tests of Fixed Effects

Effect	DF	Num Den	F Value	Pr > F
LOGBASE	1	111	69.55	<.0001
SEX	1	111	0.67	0.4150
UCPDGR1	1	111	0.63	0.4301
TRTP	1	111	0.40	0.5296

## Least Squares Means

Effect	Treatment	Planned Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	2.2810	0.06402	111	35.63	<.0001	0.05	2.1541	2.4078
TRTP	mCC	2.3489	0.08709	111	26.97	<.0001	0.05	2.1763	2.5215

## Differences of Least Squares Means

Effect	Treatment	Planned Treatment	Planned Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
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Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	-0.06793	0.1077	111	-0.63	0.5296	0.05	-0.2814 0.1455

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: NIC, Day 2 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.1651

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	134.5
<b>AIC (Smaller is Better)</b>	136.5
<b>AICC (Smaller is Better)</b>	136.5
<b>BIC (Smaller is Better)</b>	139.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	112	109.31	<.0001
<b>SEX</b>	1	112	0.35	0.5559
<b>UCPDGR1</b>	1	112	2.42	0.1227
<b>TRTP</b>	1	112	0.06	0.8032

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.4851	0.04693	112	52.96	<.0001	0.05 2.3921 2.5781
<b>TRTP</b>	mCC	2.4654	0.06422	112	38.39	<.0001	0.05 2.3381 2.5926



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.01978	0.07918	112	0.25	0.8032	0.05	-0.1371	0.1767

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: NIC, Day 3 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.1935

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	152.3
<b>AIC (Smaller is Better)</b>	154.3
<b>AICC (Smaller is Better)</b>	154.3
<b>BIC (Smaller is Better)</b>	157.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	112	81.88	<.0001
<b>SEX</b>	1	112	0.53	0.4664
<b>UCPDGR1</b>	1	112	1.62	0.2059
<b>TRTP</b>	1	112	2.76	0.0996

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	2.6730	0.05080	112	52.62	<.0001	0.05	2.5724	2.7737	
TRTP	mCC	2.5307	0.06952	112	36.40	<.0001	0.05	2.3930	2.6684	



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Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.1423	0.08571	112	1.66	0.0996	0.05	-0.02751 0.3122

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: NIC, Day 4 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2249

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	169.1
<b>AIC (Smaller is Better)</b>	171.1
<b>AICC (Smaller is Better)</b>	171.2
<b>BIC (Smaller is Better)</b>	173.8

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	112	88.23	<.0001
<b>SEX</b>	1	112	1.25	0.2652
<b>UCPDGR1</b>	1	112	1.38	0.2426
<b>TRTP</b>	1	112	0.42	0.5183

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	2.4500	0.05477	112	44.73	<.0001	0.05	2.3415	2.5586	
TRTP	mCC	2.3902	0.07495	112	31.89	<.0001	0.05	2.2417	2.5387	



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.05988	0.09241	112	0.65	0.5183	0.05	-0.1232	0.2430

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: NIC, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_5
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	102

**Number of Observations**

<b>Number of Observations Read</b>	102
<b>Number of Observations Used</b>	102



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.1899

Fit Statistics	
-2 Res Log Likelihood	131.7
AIC (Smaller is Better)	133.7
AICC (Smaller is Better)	133.7
BIC (Smaller is Better)	136.2

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
LOGBASE	1	97	70.89	<.0001
SEX	1	97	2.55	0.1136
UCPDGR1	1	97	0.13	0.7175
TRTP	1	97	1.17	0.2821

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.6392	0.05542	97	47.62	<.0001	0.05 2.5292 2.7492
TRTP	mCC	2.5406	0.07442	97	34.14	<.0001	0.05 2.3929 2.6883



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.09865	0.09119	97	1.08	0.2821	0.05	-0.08235	0.2796

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: COT, Day 1 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_6
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.03141

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	-51.6
<b>AIC (Smaller is Better)</b>	-49.6
<b>AICC (Smaller is Better)</b>	-49.6
<b>BIC (Smaller is Better)</b>	-46.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	112	901.40	<.0001
<b>SEX</b>	1	112	0.11	0.7438
<b>UCPDGR1</b>	1	112	0.82	0.3684
<b>TRTP</b>	1	112	1.31	0.2556

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	4.9704	0.02046	112	242.89	<.0001	0.05	4.9298 5.0109
<b>TRTP</b>	mCC	5.0096	0.02791	112	179.49	<.0001	0.05	4.9543 5.0649



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Differences of Least Squares Means									
	Planned	Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	-0.03929	0.03438	112	-1.14	0.2556	0.05	-0.1074 0.02883



**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: COT, Day 2 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_7
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.04910

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	-1.5
<b>AIC (Smaller is Better)</b>	0.5
<b>AICC (Smaller is Better)</b>	0.5
<b>BIC (Smaller is Better)</b>	3.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	112	527.50	<.0001
<b>SEX</b>	1	112	2.75	0.0999
<b>UCPDGR1</b>	1	112	0.41	0.5240
<b>TRTP</b>	1	112	0.05	0.8247

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	4.9899	0.02559	112	195.01	<.0001	0.05	4.9392 5.0406
<b>TRTP</b>	mCC	4.9804	0.03490	112	142.70	<.0001	0.05	4.9112 5.0495



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.009547	0.04299	112	0.22	0.8247	0.05	-0.07564	0.09473

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: COT, Day 3 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_8
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.06622

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	32.0
<b>AIC (Smaller is Better)</b>	34.0
<b>AICC (Smaller is Better)</b>	34.0
<b>BIC (Smaller is Better)</b>	36.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	112	369.50	<.0001
<b>SEX</b>	1	112	1.61	0.2078
<b>UCPDGR1</b>	1	112	0.02	0.8947
<b>TRTP</b>	1	112	3.28	0.0728

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.0332	0.02971	112	169.39	<.0001	0.05	4.9744 5.0921
<b>TRTP</b>	mCC	4.9428	0.04053	112	121.96	<.0001	0.05	4.8625 5.0231



Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.09044	0.04993	112	1.81	0.0728	0.05	-0.00849 0.1894

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: COT, Day 4 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_9
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.07461

Fit Statistics	
-2 Res Log Likelihood	45.0
AIC (Smaller is Better)	47.0
AICC (Smaller is Better)	47.1
BIC (Smaller is Better)	49.8

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
LOGBASE	1	111	334.17	<.0001
SEX	1	111	2.86	0.0935
UCPDGR1	1	111	0.06	0.8116
TRTP	1	111	2.36	0.1271

		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	5.0574	0.03171	111	159.48	<.0001	0.05	4.9946 5.1202
TRTP	mCC	4.9757	0.04303	111	115.64	<.0001	0.05	4.8904 5.0610





Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.08170	0.05314	111	1.54	0.1271	0.05	-0.02361 0.1870

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and PPROT1FL = Y

Paramcd: COT, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_10
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	102

**Number of Observations**

<b>Number of Observations Read</b>	102
<b>Number of Observations Used</b>	102



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.07300

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	38.7
<b>AIC (Smaller is Better)</b>	40.7
<b>AICC (Smaller is Better)</b>	40.8
<b>BIC (Smaller is Better)</b>	43.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	97	316.40	<.0001
<b>SEX</b>	1	97	0.64	0.4268
<b>UCPDGR1</b>	1	97	0.48	0.4887
<b>TRTP</b>	1	97	3.85	0.0527

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.1714	0.03438	97	150.42	<.0001	0.05	5.1032 5.2397
<b>TRTP</b>	mCC	5.0614	0.04591	97	110.24	<.0001	0.05	4.9703 5.1525



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.1100	0.05608	97	1.96	0.0527	0.05	-0.00129	0.2213

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and PPROT2FL = Y

Paramcd: NIC, Day 30 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	115

**Number of Observations**

<b>Number of Observations Read</b>	115
<b>Number of Observations Used</b>	115



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2310

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	169.3
<b>AIC (Smaller is Better)</b>	171.3
<b>AICC (Smaller is Better)</b>	171.3
<b>BIC (Smaller is Better)</b>	174.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	110	53.17	<.0001
<b>SEX</b>	1	110	0.53	0.4672
<b>UCPDGR1</b>	1	110	1.09	0.2983
<b>TRTP</b>	1	110	0.18	0.6683

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.5348	0.05628	110	45.04	<.0001	0.05	2.4233 2.6463
<b>TRTP</b>	mCC	2.5753	0.07601	110	33.88	<.0001	0.05	2.4246 2.7259



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	-0.04047	0.09417	110	-0.43	0.6683	0.05	-0.2271	0.1462

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and PPROT2FL = Y

Paramcd: COT, Day 30 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	115

**Number of Observations**

<b>Number of Observations Read</b>	115
<b>Number of Observations Used</b>	115





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.1834

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	143.7
<b>AIC (Smaller is Better)</b>	145.7
<b>AICC (Smaller is Better)</b>	145.7
<b>BIC (Smaller is Better)</b>	148.4

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	110	121.54	<.0001
<b>SEX</b>	1	110	2.93	0.0899
<b>UCPDGR1</b>	1	110	1.55	0.2151
<b>TRTP</b>	1	110	2.62	0.1086

		<b>Least Squares Means</b>				
		<b>Planned</b>	<b>Standard</b>			
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>
<b>TRTP</b>	<b>THSm2.2</b>	5.2802	0.05012	110	105.35	<.0001
<b>TRTP</b>	<b>mCC</b>	5.1451	0.06746	110	76.27	<.0001



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.1350	0.08348	110	1.62	0.1086	0.05	-0.03041	0.3005

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and PPROT3FL = Y

Paramcd: NIC, Day 60 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	112

**Number of Observations**

<b>Number of Observations Read</b>	112
<b>Number of Observations Used</b>	112



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.3027

Fit Statistics	
-2 Res Log Likelihood	193.9
AIC (Smaller is Better)	195.9
AICC (Smaller is Better)	196.0
BIC (Smaller is Better)	198.6

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
LOGBASE	1	107	41.12	<.0001
SEX	1	107	3.30	0.0721
UCPDGR1	1	107	3.08	0.0823
TRTP	1	107	0.06	0.7995

		Least Squares Means					
		Planned	Standard				
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.5397	0.06590	107	38.54	<.0001	0.05 2.4091 2.6704
TRTP	mCC	2.5120	0.08709	107	28.84	<.0001	0.05 2.3394 2.6847



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Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.02769	0.1087	107	0.25	0.7995	0.05	-0.1879 0.2433

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and PPROT3FL = Y

Paramcd: COT, Day 60 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	112

**Number of Observations**

<b>Number of Observations Read</b>	112
<b>Number of Observations Used</b>	112



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2009

Fit Statistics	
-2 Res Log Likelihood	149.8
AIC (Smaller is Better)	151.8
AICC (Smaller is Better)	151.9
BIC (Smaller is Better)	154.5

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
LOGBASE	1	107	110.92	<.0001
SEX	1	107	4.86	0.0296
UCPDGR1	1	107	2.34	0.1293
TRTP	1	107	0.50	0.4812

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	5.2085	0.05363	107	97.13	<.0001	0.05 5.1022 5.3149
TRTP	mCC	5.1463	0.07066	107	72.83	<.0001	0.05 5.0062 5.2864



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.06224	0.08806	107	0.71	0.4812	0.05	-0.1123	0.2368



**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and PPROT4FL = Y

Paramcd: NIC, Day 90 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	110

**Number of Observations**

<b>Number of Observations Read</b>	110
<b>Number of Observations Used</b>	110



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.3224

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	197.3
<b>AIC (Smaller is Better)</b>	199.3
<b>AICC (Smaller is Better)</b>	199.3
<b>BIC (Smaller is Better)</b>	201.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	105	42.46	<.0001
<b>SEX</b>	1	105	0.98	0.3239
<b>UCPDGR1</b>	1	105	0.11	0.7419
<b>TRTP</b>	1	105	0.09	0.7684

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.5168	0.06867	105	36.65	<.0001	0.05 2.3807 2.6530
<b>TRTP</b>	mCC	2.4835	0.08984	105	27.65	<.0001	0.05 2.3054 2.6617



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.03330	0.1128	105	0.30	0.7684	0.05	-0.1903	0.2569

**Listing 15.4.4.20.1 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - PP Set**

The where clause used on the dataset adam.adpc: ANL01FL=Y and PPROT4FL = Y

Paramcd: COT, Day 90 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	110

**Number of Observations**

<b>Number of Observations Read</b>	110
<b>Number of Observations Used</b>	110



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.1756

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	133.3
<b>AIC (Smaller is Better)</b>	135.3
<b>AICC (Smaller is Better)</b>	135.3
<b>BIC (Smaller is Better)</b>	137.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	105	122.62	<.0001
<b>SEX</b>	1	105	6.31	0.0136
<b>UCPDGR1</b>	1	105	0.21	0.6471
<b>TRTP</b>	1	105	0.48	0.4877

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.2247	0.05065	105	103.15	<.0001	0.05 5.1243 5.3251
<b>TRTP</b>	mCC	5.1670	0.06603	105	78.25	<.0001	0.05 5.0361 5.2980



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.05767	0.08281	105	0.70	0.4877	0.05	-0.1065	0.2219

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL =Y

Paramcd: NIC, Day 1 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	2THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.3020

**Fit Statistics**

-2 Res Log Likelihood	203.7
AIC (Smaller is Better)	205.7
AICC (Smaller is Better)	205.7
BIC (Smaller is Better)	208.4

**Type 3 Tests of Fixed Effects**

Effect	DF	Num Den	DF F Value	Pr > F
LOGBASE	1	113	69.32	<.0001
SEX	1	113	0.55	0.4585
UCPDGR1	1	113	0.48	0.4879
TRTP	1	113	0.51	0.4785

**Least Squares Means**

Effect	Planned Treatment	Planned Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	2.2723	0.06331	113	35.89	<.0001	0.05	2.1469	2.3977
TRTP	mCC	2.3484	0.08704	113	26.98	<.0001	0.05	2.1760	2.5209

**Differences of Least Squares Means**

Effect	Planned Treatment	Planned Treatment	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	-0.07617	0.1071	113	-0.71	0.4785	0.05	-0.2884	0.1361

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL =Y

Paramcd: NIC, Day 2 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.1656

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	135.9
<b>AIC (Smaller is Better)</b>	137.9
<b>AICC (Smaller is Better)</b>	137.9
<b>BIC (Smaller is Better)</b>	140.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	113	108.18	<.0001
<b>SEX</b>	1	113	0.44	0.5102
<b>UCPDGR1</b>	1	113	2.18	0.1426
<b>TRTP</b>	1	113	0.03	0.8566

		<b>Least Squares Means</b>					
		<b>Planned</b>	<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.4834	0.04672	113	53.15	<.0001	0.05 2.3908 2.5759
<b>TRTP</b>	mCC	2.4690	0.06434	113	38.37	<.0001	0.05 2.3416 2.5965



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Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.01434	0.07915	113	0.18	0.8566	0.05	-0.1425 0.1711

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL =Y

Paramcd: NIC, Day 3 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.1924

Fit Statistics	
-2 Res Log Likelihood	152.9
AIC (Smaller is Better)	154.9
AICC (Smaller is Better)	154.9
BIC (Smaller is Better)	157.6

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
LOGBASE	1	113	82.97	<.0001
SEX	1	113	0.48	0.4879
UCPDGR1	1	113	1.75	0.1885
TRTP	1	113	2.91	0.0908

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.6800	0.05037	113	53.20	<.0001	0.05 2.5802 2.7798
TRTP	mCC	2.5345	0.06937	113	36.54	<.0001	0.05 2.3970 2.6719



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Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.1455	0.08533	113	1.71	0.0908	0.05	-0.02351 0.3146

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL =Y

Paramcd: NIC, Day 4 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2232

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	169.6
<b>AIC (Smaller is Better)</b>	171.6
<b>AICC (Smaller is Better)</b>	171.7
<b>BIC (Smaller is Better)</b>	174.4

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	113	88.77	<.0001
<b>SEX</b>	1	113	1.32	0.2530
<b>UCPDGR1</b>	1	113	1.34	0.2503
<b>TRTP</b>	1	113	0.40	0.5307

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.4520	0.05425	113	45.20	<.0001	0.05 2.3445 2.5594
<b>TRTP</b>	mCC	2.3942	0.07470	113	32.05	<.0001	0.05 2.2462 2.5422



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.05780	0.09189	113	0.63	0.5307	0.05	-0.1243	0.2399

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL =Y

Paramcd: NIC, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_5
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	103

**Number of Observations**

<b>Number of Observations Read</b>	103
<b>Number of Observations Used</b>	103



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.1907

Fit Statistics	
-2 Res Log Likelihood	133.3
AIC (Smaller is Better)	135.3
AICC (Smaller is Better)	135.4
BIC (Smaller is Better)	137.9

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
LOGBASE	1	98	69.72	<.0001
SEX	1	98	2.31	0.1314
UCPDGR1	1	98	0.07	0.7873
TRTP	1	98	1.02	0.3148

		Least Squares Means				
Planned		Standard				
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t  Alpha Lower Upper
TRTP	THSm2.2	2.6364	0.05526	98	47.71	<.0001 0.05 2.5268 2.7461
TRTP	mCC	2.5442	0.07465	98	34.08	<.0001 0.05 2.3961 2.6924



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.09220	0.09125	98	1.01	0.3148	0.05	-0.08887	0.2733

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and FASFL=Y

Paramcd: NIC, Day 30 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_6
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2290

Fit Statistics	
-2 Res Log Likelihood	172.5
AIC (Smaller is Better)	174.5
AICC (Smaller is Better)	174.6
BIC (Smaller is Better)	177.2

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
LOGBASE	1	113	55.49	<.0001
SEX	1	113	0.37	0.5464
UCPDGR1	1	113	1.36	0.2456
TRTP	1	113	0.28	0.5999

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	2.5262	0.05495	113	45.98	<.0001	0.05	2.4173	2.6351	
TRTP	mCC	2.5752	0.07567	113	34.03	<.0001	0.05	2.4252	2.7251	



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Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	-0.04896	0.09308	113	-0.53	0.5999	0.05	-0.2334 0.1354



**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and FASFL=Y

Paramcd: NIC, Day 60 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_7
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2970

Fit Statistics	
-2 Res Log Likelihood	201.9
AIC (Smaller is Better)	203.9
AICC (Smaller is Better)	203.9
BIC (Smaller is Better)	206.6

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
LOGBASE	1	113	40.74	<.0001
SEX	1	113	3.71	0.0565
UCPDGR1	1	113	2.64	0.1069
TRTP	1	113	0.22	0.6376

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.5541	0.06258	113	40.82	<.0001	0.05 2.4301 2.6781
TRTP	mCC	2.5040	0.08617	113	29.06	<.0001	0.05 2.3333 2.6747



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.05008	0.1060	113	0.47	0.6376	0.05	-0.1599	0.2601

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and FASFL=Y

Paramcd: NIC, Day 90 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_8
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.3310

Fit Statistics	
-2 Res Log Likelihood	212.4
AIC (Smaller is Better)	214.4
AICC (Smaller is Better)	214.4
BIC (Smaller is Better)	217.1

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
LOGBASE	1	112	39.84	<.0001
SEX	1	112	0.64	0.4247
UCPDGR1	1	112	0.04	0.8342
TRTP	1	112	0.03	0.8634

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.5048	0.06642	112	37.71	<.0001	0.05 2.3732 2.6364
TRTP	mCC	2.4855	0.09107	112	27.29	<.0001	0.05 2.3050 2.6659



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Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.01937	0.1123	112	0.17	0.8634	0.05	-0.2032 0.2419

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL =Y

Paramcd: COT, Day 1 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_9
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	119

**Number of Observations**

<b>Number of Observations Read</b>	119
<b>Number of Observations Used</b>	119



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.03124

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	-53.4
<b>AIC (Smaller is Better)</b>	-51.4
<b>AICC (Smaller is Better)</b>	-51.3
<b>BIC (Smaller is Better)</b>	-48.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	114	917.89	<.0001
<b>SEX</b>	1	114	0.10	0.7552
<b>UCPDGR1</b>	1	114	0.67	0.4144
<b>TRTP</b>	1	114	1.42	0.2363

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	4.9718	0.02019	114	246.22	<.0001	0.05	4.9318 5.0118
<b>TRTP</b>	mCC	5.0124	0.02783	114	180.09	<.0001	0.05	4.9573 5.0676





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Differences of Least Squares Means									
	Planned	Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	-0.04064	0.03413	114	-1.19	0.2363	0.05	-0.1082 0.02698

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL=Y

Paramcd: COT, Day 2 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_10
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.04870

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	-2.6
<b>AIC (Smaller is Better)</b>	-0.6
<b>AICC (Smaller is Better)</b>	-0.6
<b>BIC (Smaller is Better)</b>	2.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	113	536.90	<.0001
<b>SEX</b>	1	113	2.81	0.0967
<b>UCPDGR1</b>	1	113	0.39	0.5322
<b>TRTP</b>	1	113	0.04	0.8378

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	4.9965	0.02534	113	197.18	<.0001	0.05	4.9463 5.0467
<b>TRTP</b>	mCC	4.9877	0.03477	113	143.46	<.0001	0.05	4.9188 5.0566



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.008766	0.04273	113	0.21	0.8378	0.05	-0.07589	0.09342

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL =Y

Paramcd: COT, Day 3 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_11
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.06574

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	31.3
<b>AIC (Smaller is Better)</b>	33.3
<b>AICC (Smaller is Better)</b>	33.3
<b>BIC (Smaller is Better)</b>	36.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	113	378.61	<.0001
<b>SEX</b>	1	113	1.59	0.2105
<b>UCPDGR1</b>	1	113	0.03	0.8746
<b>TRTP</b>	1	113	3.42	0.0670

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.0418	0.02944	113	171.26	<.0001	0.05	4.9835 5.1001
<b>TRTP</b>	mCC	4.9500	0.04039	113	122.55	<.0001	0.05	4.8700 5.0300



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Differences of Least Squares Means									
	Planned	Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.09182	0.04964	113	1.85	0.0670	0.05	-0.00654 0.1902

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL=Y

Paramcd: COT, Day 4 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_12
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.07398

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	44.4
<b>AIC (Smaller is Better)</b>	46.4
<b>AICC (Smaller is Better)</b>	46.4
<b>BIC (Smaller is Better)</b>	49.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	112	342.10	<.0001
<b>SEX</b>	1	112	2.86	0.0933
<b>UCPDGR1</b>	1	112	0.06	0.8001
<b>TRTP</b>	1	112	2.44	0.1210

		<b>Least Squares Means</b>						
<b>Planned</b>		<b>Standard</b>						
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.0655	0.03140	112	161.34	<.0001	0.05	5.0033 5.1277
<b>TRTP</b>	mCC	4.9830	0.04286	112	116.27	<.0001	0.05	4.8981 5.0679



Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.08251	0.05281	112	1.56	0.1210	0.05	-0.02212	0.1871

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and ANL02FL=Y and FASFL=Y

Paramcd: COT, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_13
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	103

**Number of Observations**

<b>Number of Observations Read</b>	103
<b>Number of Observations Used</b>	103



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.07225

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	38.0
<b>AIC (Smaller is Better)</b>	40.0
<b>AICC (Smaller is Better)</b>	40.0
<b>BIC (Smaller is Better)</b>	42.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	98	325.20	<.0001
<b>SEX</b>	1	98	0.64	0.4246
<b>UCPDGR1</b>	1	98	0.49	0.4863
<b>TRTP</b>	1	98	3.91	0.0509

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.1798	0.03403	98	152.20	<.0001	0.05	5.1123 5.2473
<b>TRTP</b>	mCC	5.0697	0.04571	98	110.91	<.0001	0.05	4.9790 5.1604



Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.1101	0.05568	98	1.98	0.0509	0.05	-0.00042	0.2206

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and FASFL=Y

Paramcd: COT, Day 30 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_14
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.1786

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	144.3
<b>AIC (Smaller is Better)</b>	146.3
<b>AICC (Smaller is Better)</b>	146.3
<b>BIC (Smaller is Better)</b>	149.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	113	127.63	<.0001
<b>SEX</b>	1	113	3.01	0.0853
<b>UCPDGR1</b>	1	113	1.66	0.1999
<b>TRTP</b>	1	113	2.79	0.0974

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.2841	0.04853	113	108.89	<.0001	0.05	5.1880 5.3803
<b>TRTP</b>	mCC	5.1474	0.06658	113	77.31	<.0001	0.05	5.0154 5.2793



Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.1368	0.08183	113	1.67	0.0974	0.05	-0.02534 0.2989



**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and FASFL=Y

Paramcd: COT, Day 60 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_15
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2108

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	163.0
<b>AIC (Smaller is Better)</b>	165.0
<b>AICC (Smaller is Better)</b>	165.0
<b>BIC (Smaller is Better)</b>	167.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	113	101.26	<.0001
<b>SEX</b>	1	113	5.34	0.0226
<b>UCPDGR1</b>	1	113	1.41	0.2382
<b>TRTP</b>	1	113	0.98	0.3239

		<b>Least Squares Means</b>					
		<b>Planned</b>	<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.2222	0.05272	113	99.06	<.0001	0.05 5.1178 5.3267
<b>TRTP</b>	mCC	5.1341	0.07233	113	70.99	<.0001	0.05 4.9908 5.2774



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Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.08808	0.08890	113	0.99	0.3239	0.05	-0.08804 0.2642

**Listing 15.4.4.20.2 Analysis of Plasma Nicotine and Cotinine Concentrations (ng/mL) over the 90 Days - FAS**

The where clause used on the dataset adam.adpc: ANL01FL=Y and FASFL=Y

Paramcd: COT, Day 90 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_16
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.1886

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	149.2
<b>AIC (Smaller is Better)</b>	151.2
<b>AICC (Smaller is Better)</b>	151.2
<b>BIC (Smaller is Better)</b>	153.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	112	115.12	<.0001
<b>SEX</b>	1	112	5.48	0.0210
<b>UCPDGR1</b>	1	112	0.05	0.8291
<b>TRTP</b>	1	112	0.40	0.5284

		<b>Least Squares Means</b>						
		<b>Planned</b>	<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.2326	0.05013	112	104.37	<.0001	0.05	5.1333 5.3319
<b>TRTP</b>	mCC	5.1793	0.06843	112	75.68	<.0001	0.05	5.0437 5.3149



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Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.05333	0.08433	112	0.63	0.5284	0.05	-0.1138	0.2204

**Listing 15.4.4.22.1 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - PP Set**

The where clause used on the dataset adam.adpp: ANL01FL=Y and PPROT1FL=Y

Paramcd: NCAVG, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**

<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.3457

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	215.4
<b>AIC (Smaller is Better)</b>	217.4
<b>AICC (Smaller is Better)</b>	217.4
<b>BIC (Smaller is Better)</b>	220.1

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>Num Den</b>		<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
	<b>DF</b>	<b>DF</b>			
<b>SEX</b>	1	113		4.49	0.0363
<b>UCPDGR1</b>	1	113		10.18	0.0018
<b>TRTP</b>	1	113		4.38	0.0386

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned</b>		<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
		<b>Estimate</b>	<b>Standard</b>							
<b>TRTP</b>	THSm2.2	2.4055	0.06785	113	35.45	<.0001	0.05	2.2711	2.5400	
<b>TRTP</b>	mCC	2.1669	0.09257	113	23.41	<.0001	0.05	1.9835	2.3503	

**Differences of Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Treatment</b>	<b>Planned</b>		<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
			<b>Estimate</b>	<b>Standard</b>							
<b>TRTP</b>	THSm2.2	mCC	0.2387	0.1141	113	2.09	0.0386	0.05	0.01268	0.4647	



**Listing 15.4.4.22.1 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - PP Set**

The where clause used on the dataset adam.adpp: ANL01FL=Y and PPROT1FL=Y

Paramcd: NCMAX, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2715

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	188.1
<b>AIC (Smaller is Better)</b>	190.1
<b>AICC (Smaller is Better)</b>	190.2
<b>BIC (Smaller is Better)</b>	192.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>SEX</b>	1	113	2.56	0.1126
<b>UCPDGR1</b>	1	113	8.99	0.0033
<b>TRTP</b>	1	113	6.99	0.0093

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	3.0238	0.06014	113	50.28	<.0001	0.05	2.9047	3.1429	
TRTP	mCC	2.7564	0.08205	113	33.59	<.0001	0.05	2.5938	2.9190	



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Differences of Least Squares Means										
	Planned	Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.2674	0.1011	113	2.64	0.0093	0.05	0.06709	0.4677

**Listing 15.4.4.22.1 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - PP Set**

The where clause used on the dataset adam.adpp: ANL01FL=Y and PPROT1FL=Y

Paramcd: CCAVG, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2952

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	197.6
<b>AIC (Smaller is Better)</b>	199.6
<b>AICC (Smaller is Better)</b>	199.6
<b>BIC (Smaller is Better)</b>	202.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>SEX</b>	1	113	7.57	0.0069
<b>UCPDGR1</b>	1	113	5.32	0.0229
<b>TRTP</b>	1	113	1.88	0.1735

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	5.1278	0.06271	113	81.77	<.0001	0.05	5.0036	5.2520	
TRTP	mCC	4.9834	0.08556	113	58.25	<.0001	0.05	4.8139	5.1529	



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Differences of Least Squares Means									
	Planned	Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.1444	0.1054	113	1.37	0.1735	0.05	-0.06446 0.3533

**Listing 15.4.4.22.1 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - PP Set**

The where clause used on the dataset adam.adpp: ANL01FL=Y and PPROT1FL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2961

Fit Statistics	
-2 Res Log Likelihood	197.9
AIC (Smaller is Better)	199.9
AICC (Smaller is Better)	200.0
BIC (Smaller is Better)	202.7

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
SEX	1	113	7.07	0.0090
UCPDGR1	1	113	4.63	0.0336
TRTP	1	113	2.20	0.1408

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	5.2431	0.06280	113	83.48	<.0001	0.05	5.1187	5.3675	
TRTP	mCC	5.0865	0.08569	113	59.36	<.0001	0.05	4.9167	5.2562	





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Differences of Least Squares Means									
	Planned	Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.1566	0.1056	113	1.48	0.1408	0.05	-0.05257 0.3658

**Listing 15.4.4.22.1 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - PP Set**

The where clause used on the dataset adam.adpp: ANL01FL=Y and PPROT1FL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Wilcoxon Scores (Rank Sums) for Variable AVAL****Classified by Variable TRTCD**

TRTCD	N	Sum of Expected Scores Under H0	Std Dev Under H0	Mean Score
1	76	4619.50	4484.0 172.140033	60.782895
2	41	2283.50	2419.0 172.140033	55.695122

Average scores were used for ties.

**Wilcoxon Two-Sample Test**

Statistic	2283.5000
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**Normal Approximation**

Z	-0.7842
---	---------

One-Sided Pr < Z	0.2164
------------------	--------

Two-Sided Pr >  Z	0.4329
-------------------	--------

**t Approximation**

One-Sided Pr < Z	0.2172
------------------	--------

Two-Sided Pr >  Z	0.4345
-------------------	--------

Z includes a continuity correction of 0.5.

**Kruskal-Wallis Test**

Chi-Square	0.6196
------------	--------

DF	1
----	---

Pr > Chi-Square	0.4312
-----------------	--------

**Hodges-Lehmann Estimation**

Location Shift (2 - 1) 0.0000

**95%**

<b>Confidence Limits</b>	<b>Interval Midpoint</b>	<b>Asymptotic Standard Error</b>
-2.0000 0.0000	-1.0000	0.5102

**Listing 15.4.4.22.1 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - PP Set**

The where clause used on the dataset adam.adpp: ANL01FL=Y and PPROT1FL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Median Scores (Number of Points Above Median) for Variable AVAL**  
**Classified by Variable TRTCD**

TRTCD	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
1	76	39.166667	37.675214	2.439206	0.515351
2	41	18.833333	20.324786	2.439206	0.459350

Average scores were used for ties.

**Median Two-Sample Test**

Statistic	18.8333
Z	-0.6115
One-Sided Pr < Z	0.2705
Two-Sided Pr >  Z	0.5409

**Median One-Way Analysis**

Chi-Square	0.3739
DF	1
Pr > Chi-Square	0.5409

**Listing 15.4.4.22.1 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - PP Set**

The where clause used on the dataset adam.adpp: ANL01FL=Y and PPROT1FL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Wilcoxon Scores (Rank Sums) for Variable AVAL****Classified by Variable TRTCD**

TRTCD	N	Sum of Expected Scores Under H0	Std Dev Under H0	Mean Score
1	76	4762.50	4484.0	171.537796
2	41	2140.50	2419.0	171.537796

Average scores were used for ties.

**Wilcoxon Two-Sample Test**

Statistic	2140.5000
-----------	-----------

**Normal Approximation**

Z	-1.6206
One-Sided Pr < Z	0.0525
Two-Sided Pr >  Z	0.1051

**t Approximation**

One-Sided Pr < Z	0.0539
Two-Sided Pr >  Z	0.1078

Z includes a continuity correction of 0.5.

**Kruskal-Wallis Test**

Chi-Square	2.6359
DF	1
Pr > Chi-Square	0.1045



### Hodges-Lehmann Estimation

Location Shift (2 - 1) -0.0333

95%

Confidence Limits	Interval Midpoint	Asymptotic Standard Error
-4.0000 0.0000	-2.0000	1.0204

**Listing 15.4.4.22.1 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - PP Set**

The where clause used on the dataset adam.adpp: ANL01FL=Y and PPROT1FL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Median Scores (Number of Points Above Median) for Variable AVAL  
Classified by Variable TRTCD**

TRTCD	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
1	76	41.647059	37.675214	2.184093	0.547988
2	41	16.352941	20.324786	2.184093	0.398852

Average scores were used for ties.

**Median Two-Sample Test**

Statistic	16.3529
Z	-1.8185
One-Sided Pr < Z	0.0345
Two-Sided Pr >  Z	0.0690

**Median One-Way  
Analysis**

Chi-Square	3.3071
DF	1
Pr > Chi-Square	0.0690

**Listing 15.4.4.22.2 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - FAS**

The where clause used on the dataset adam.adpp: ANL01FL=Y and FASFL=Y

Paramcd: NCAVG, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118
<b>Number of Observations Not Used</b>	0





**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
Residual 0.3426

**Fit Statistics**  
-2 Res Log Likelihood 216.2  
AIC (Smaller is Better) 218.2  
AICC (Smaller is Better) 218.2  
BIC (Smaller is Better) 220.9

**Type 3 Tests of Fixed Effects**  
**Num Den**  
**Effect DF DF F Value Pr > F**  
SEX 1 114 4.54 0.0352  
UCPDGR1 1 114 10.33 0.0017  
TRTP 1 114 4.43 0.0376

**Least Squares Means**  
**Planned Standard**  
**EffectTreatment Estimate Error DF t Value Pr > |t| Alpha Lower Upper**  
TRTP THSm2.2 2.4053 0.06717 114 35.81 <.0001 0.05 2.2722 2.5384  
TRTP mCC 2.1669 0.09217 114 23.51 <.0001 0.05 1.9843 2.3495

**Differences of Least Squares Means**  
**Planned Planned Standard**  
**EffectTreatment Treatment Estimate Error DF t Value Pr > |t| Alpha Lower Upper**  
TRTP THSm2.2 mCC 0.2384 0.1133 114 2.10 0.0376 0.05 0.01393 0.4630

**Listing 15.4.4.22.2 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - FAS**

The where clause used on the dataset adam.adpp: ANL01FL=Y and FASFL=Y

Paramcd: NCMAX, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2692

Fit Statistics	
-2 Res Log Likelihood	188.7
AIC (Smaller is Better)	190.7
AICC (Smaller is Better)	190.7
BIC (Smaller is Better)	193.4

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
SEX	1	114	2.61 0.1086
UCPDGR1	1	114	9.19 0.0030
TRTP	1	114	7.12 0.0088

		Least Squares Means				
Planned		Standard				
Effect	Treatment	Estimate	Error	DF	t Value Pr >  t  Alpha	Lower Upper
TRTP	THSm2.2	3.0244	0.05954	114	50.80 <.0001	0.05 2.9064 3.1423
TRTP	mCC	2.7564	0.08169	114	33.74 <.0001	0.05 2.5946 2.9182



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Differences of Least Squares Means										
	Planned	Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.2680	0.1005	114	2.67	0.0088	0.05	0.06895	0.4670

**Listing 15.4.4.22.2 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - FAS**

The where clause used on the dataset adam.adpp: ANL01FL=Y and FASFL=Y

Paramcd: CCAVG, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2956

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	199.4
<b>AIC (Smaller is Better)</b>	201.4
<b>AICC (Smaller is Better)</b>	201.4
<b>BIC (Smaller is Better)</b>	204.1

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>SEX</b>	1	114	8.05 0.0054
<b>UCPDGR1</b>	1	114	5.81 0.0175
<b>TRTP</b>	1	114	2.07 0.1525

		<b>Least Squares Means</b>				
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value Pr &gt;  t  Alpha Lower Upper</b>	
<b>TRTP</b>	THSm2.2	5.1349	0.06239	114	82.30 <.0001	0.05 5.0113 5.2585
<b>TRTP</b>	mCC	4.9833	0.08561	114	58.21 <.0001	0.05 4.8137 5.1529



---

Differences of Least Squares Means									
	Planned	Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.1516	0.1053	114	1.44	0.1525	0.05	-0.05690 0.3602

**Listing 15.4.4.22.2 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - FAS**

The where clause used on the dataset adam.adpp: ANL01FL=Y and FASFL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2963

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	199.7
<b>AIC (Smaller is Better)</b>	201.7
<b>AICC (Smaller is Better)</b>	201.7
<b>BIC (Smaller is Better)</b>	204.4

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>SEX</b>	1	114	7.53	0.0071
<b>UCPDGR1</b>	1	114	5.07	0.0262
<b>TRTP</b>	1	114	2.41	0.1233

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	5.2500	0.06247	114	84.04	<.0001	0.05	5.1263	5.3737	
TRTP	mCC	5.0864	0.08571	114	59.34	<.0001	0.05	4.9166	5.2562	



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Differences of Least Squares Means									
	Planned	Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	mCC	0.1636	0.1054	114	1.55	0.1233	0.05	-0.04516 0.3724

**Listing 15.4.4.22.2 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - FAS**

The where clause used on the dataset adam.adpp: ANL01FL=Y and FASFL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Wilcoxon Scores (Rank Sums) for Variable AVAL****Classified by Variable TRTCD**

TRTCD	N	Sum of Expected Scores Under H0	Std Dev Under H0	Mean Score
1	77	4733.0	4581.50 173.902619	61.467532
2	41	2288.0	2439.50 173.902619	55.804878

Average scores were used for ties.

**Wilcoxon Two-Sample Test**

Statistic	2288.0000
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**Normal Approximation**

Z	-0.8683
One-Sided Pr < Z	0.1926
Two-Sided Pr >  Z	0.3852

**t Approximation**

One-Sided Pr < Z	0.1935
Two-Sided Pr >  Z	0.3870

Z includes a continuity correction of 0.5.

**Kruskal-Wallis Test**

Chi-Square	0.7589
DF	1
Pr > Chi-Square	0.3837

**Hodges-Lehmann Estimation**

Location Shift (2 - 1) 0.0000

**95%**

<b>Confidence Limits</b>	<b>Interval Midpoint</b>	<b>Asymptotic Standard Error</b>
-2.0000 0.0000	-1.0000	0.5102

**Listing 15.4.4.22.2 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - FAS**

The where clause used on the dataset adam.adpp: ANL01FL=Y and FASFL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Median Scores (Number of Points Above Median) for Variable AVAL  
Classified by Variable TRTCD**

TRTCD	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
1	77	40.166667	38.50	2.446119	0.521645
2	41	18.833333	20.50	2.446119	0.459350

Average scores were used for ties.

**Median Two-Sample Test**

Statistic	18.8333
Z	-0.6814
One-Sided Pr < Z	0.2478
Two-Sided Pr >  Z	0.4956

**Median One-Way  
Analysis**

Chi-Square	0.4642
DF	1
Pr > Chi-Square	0.4956

**Listing 15.4.4.22.2 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - FAS**

The where clause used on the dataset adam.adpp: ANL01FL=Y and FASFL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Wilcoxon Scores (Rank Sums) for Variable AVAL****Classified by Variable TRTCD**

TRTCD	N	Sum of Expected Scores Under H0	Std Dev Under H0	Mean Score
1	77	4874.50	4581.50	173.358375
2	41	2146.50	2439.50	173.358375

Average scores were used for ties.

**Wilcoxon Two-Sample Test**

Statistic	2146.5000
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**Normal Approximation**

Z	-1.6873
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One-Sided Pr < Z	0.0458
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Two-Sided Pr >  Z	0.0916
-------------------	--------

**t Approximation**

One-Sided Pr < Z	0.0471
------------------	--------

Two-Sided Pr >  Z	0.0942
-------------------	--------

Z includes a continuity correction of 0.5.

**Kruskal-Wallis Test**

Chi-Square	2.8566
------------	--------

DF	1
----	---

Pr > Chi-Square	0.0910
-----------------	--------



### Hodges-Lehmann Estimation

Location Shift (2 - 1) -0.0667

95%

Confidence Limits	Interval Midpoint	Asymptotic Standard Error
-4.0000 0.0000	-2.0000	1.0204

**Listing 15.4.4.22.2 Analysis of Plasma Nicotine and Cotinine Concentration PK Parameters on Day 5 - FAS**

The where clause used on the dataset adam.adpp: ANL01FL=Y and FASFL=Y

Paramcd: CCMAX, Day 5 Model: MIXED, Method: Log

**Median Scores (Number of Points Above Median) for Variable AVAL  
Classified by Variable TRTCD**

TRTCD	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
1	77	42.647059	38.50	2.192890	0.553858
2	41	16.352941	20.50	2.192890	0.398852

Average scores were used for ties.

**Median Two-Sample Test**

Statistic	16.3529
Z	-1.8911
One-Sided Pr < Z	0.0293
Two-Sided Pr >  Z	0.0586

**Median One-Way  
Analysis**

Chi-Square	3.5764
DF	1
Pr > Chi-Square	0.0586



**Listing 15.4.4.24.1 Analysis of CYP1A2 Activity (%) - PP Set**

The where clause used on the dataset adam.adbx: anl02fl=Y and PPROT1FL = Y

Paramcd: CYP1A2, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>Levels</b>	<b>Values</b>
TRTP	3	SA THSm2.2 mCC
SEX	2	F M
UCPDGR1	2	10-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	157

**Number of Observations**

<b>Number of Observations Read</b>	157
<b>Number of Observations Used</b>	157
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.03350

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	-62.6
<b>AIC (Smaller is Better)</b>	-60.6
<b>AICC (Smaller is Better)</b>	-60.5
<b>BIC (Smaller is Better)</b>	-57.6

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>Num Den</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	151	285.92	<.0001
<b>SEX</b>	1	151	9.56	0.0024
<b>UCPDGR1</b>	1	151	0.26	0.6120
<b>TRTP</b>	2	151	52.17	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	3.9871	0.02939	151	135.67	<.0001	0.05	3.9291	4.0452
<b>TRTP</b>	THSm2.2	4.0111	0.02109	151	190.19	<.0001	0.05	3.9695	4.0528
<b>TRTP</b>	mCC	4.3401	0.02846	151	152.49	<.0001	0.05	4.2839	4.3964
<b>TRTP</b>	SA	3.9871	0.02939	151	135.67	<.0001	0.05	3.9291	4.0452
<b>TRTP</b>	THSm2.2	4.0111	0.02109	151	190.19	<.0001	0.05	3.9695	4.0528
<b>TRTP</b>	mCC	4.3401	0.02846	151	152.49	<.0001	0.05	4.2839	4.3964



Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.3530	0.04080	151	-8.65	<.0001	0.05	-0.4336	-0.2724
TRTP	THSm2.2	mCC	-0.3290	0.03524	151	-9.34	<.0001	0.05	-0.3986	-0.2594
TRTP	THSm2.2	SA	0.02402	0.03607	151	0.67	0.5064	0.05	-0.04724	0.09529
TRTP	mCC	SA	0.3530	0.04080	151	8.65	<.0001	0.05	0.2724	0.4336

**Listing 15.4.4.24.1 Analysis of CYP1A2 Activity (%) - PP Set**

The where clause used on the dataset adam.adbx: anl02fl=Y and PPROT4FL = Y

Paramcd: CYP1A2, Day 90 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	148

**Number of Observations**

<b>Number of Observations Read</b>	148
<b>Number of Observations Used</b>	148



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.09029

Fit Statistics	
-2 Res Log Likelihood	82.9
AIC (Smaller is Better)	84.9
AICC (Smaller is Better)	85.0
BIC (Smaller is Better)	87.9

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
LOGBASE	1	142	74.70 <.0001
SEX	1	142	4.18 0.0428
UCPDGR1	1	142	1.55 0.2145
TRTP	2	142	20.01 <.0001

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.0662	0.04957	142	82.03	<.0001	0.05 3.9682 4.1641
TRTP	THSm2.2	3.9879	0.03604	142	110.66	<.0001	0.05 3.9167 4.0592
TRTP	mCC	4.3577	0.04729	142	92.15	<.0001	0.05 4.2642 4.4512



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	4.0662	0.04957	142	82.03	<.0001	0.05	3.9682 4.1641
TRTP	THSm2.2	3.9879	0.03604	142	110.66	<.0001	0.05	3.9167 4.0592
TRTP	mCC	4.3577	0.04729	142	92.15	<.0001	0.05	4.2642 4.4512

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.2915	0.06823	142	-4.27	<.0001	0.05 -0.4264 -0.1566
TRTP	THSm2.2	mCC	-0.3697	0.05922	142	-6.24	<.0001	0.05 -0.4868 -0.2527
TRTP	THSm2.2	SA	-0.07821	0.06110	142	-1.28	0.2026	0.05 -0.1990 0.04257
TRTP	mCC	SA	0.2915	0.06823	142	4.27	<.0001	0.05 0.1566 0.4264

**Listing 15.4.4.24.1.1 Analysis of CYP1A2 Activity (%) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting CYP1A2 Activity - PP Set**

The where clause used on the dataset adam.adbx: anl02fl=Y and anl03fl=Y and PPROT1FL=Y

Paramcd: CYP1A2, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	157

**Number of Observations**

<b>Number of Observations Read</b>	157
<b>Number of Observations Used</b>	157
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.03350

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	-62.6
<b>AIC (Smaller is Better)</b>	-60.6
<b>AICC (Smaller is Better)</b>	-60.5
<b>BIC (Smaller is Better)</b>	-57.6

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>Num Den</b>	<b>DF F Value Pr &gt; F</b>
<b>LOGBASE</b>	1	151	285.92 <.0001
<b>SEX</b>	1	151	9.56 0.0024
<b>UCPDGR1</b>	1	151	0.26 0.6120
<b>TRTP</b>	2	151	52.17 <.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	3.9871	0.02939	151	135.67	<.0001	0.05	3.9291	4.0452
<b>TRTP</b>	THSm2.2	4.0111	0.02109	151	190.19	<.0001	0.05	3.9695	4.0528
<b>TRTP</b>	mCC	4.3401	0.02846	151	152.49	<.0001	0.05	4.2839	4.3964
<b>TRTP</b>	SA	3.9871	0.02939	151	135.67	<.0001	0.05	3.9291	4.0452
<b>TRTP</b>	THSm2.2	4.0111	0.02109	151	190.19	<.0001	0.05	3.9695	4.0528
<b>TRTP</b>	mCC	4.3401	0.02846	151	152.49	<.0001	0.05	4.2839	4.3964





Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.3530	0.04080	151	-8.65	<.0001	0.05	-0.4336	-0.2724
TRTP	THSm2.2	mCC	-0.3290	0.03524	151	-9.34	<.0001	0.05	-0.3986	-0.2594
TRTP	THSm2.2	SA	0.02402	0.03607	151	0.67	0.5064	0.05	-0.04724	0.09529
TRTP	mCC	SA	0.3530	0.04080	151	8.65	<.0001	0.05	0.2724	0.4336

**Listing 15.4.4.24.1.1 Analysis of CYP1A2 Activity (%) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting CYP1A2 Activity - PP Set**

The where clause used on the dataset adam.adbx: anl02fl=Y and anl03fl=Y and PPROT4FL=Y

Paramcd: CYP1A2, Day 90 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

<b>Number of Observations Read</b>	147
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**Number of Observations**

<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates****Cov Parm Estimate**

<b>Residual</b>	0.09090
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	83.4
<b>AIC (Smaller is Better)</b>	85.4
<b>AICC (Smaller is Better)</b>	85.5
<b>BIC (Smaller is Better)</b>	88.4

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>Num Den</b>		<b>DF F Value Pr &gt; F</b>
	<b>DF</b>	<b>DF</b>	
<b>LOGBASE</b>	1	141	73.65 <.0001
<b>SEX</b>	1	141	4.08 0.0452
<b>UCPDGR1</b>	1	141	1.58 0.2115
<b>TRTP</b>	2	141	19.88 <.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>SA</b>	4.0648	0.04974	141	81.72	<.0001	0.05	3.9665	4.1631
<b>TRTP</b>	<b>THSm2.2</b>	3.9857	0.03641	141	109.48	<.0001	0.05	3.9137	4.0576



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	mCC	4.3563	0.04744	141	91.82	<.0001	0.05	4.2625 4.4501
TRTP	SA	4.0648	0.04974	141	81.72	<.0001	0.05	3.9665 4.1631
TRTP	THSm2.2	3.9857	0.03641	141	109.48	<.0001	0.05	3.9137 4.0576
TRTP	mCC	4.3563	0.04744	141	91.82	<.0001	0.05	4.2625 4.4501

Differences of Least Squares Means								
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.2915	0.06846	141	-4.26	<.0001	0.05 -0.4268 -0.1561
TRTP	THSm2.2	mCC	-0.3706	0.05956	141	-6.22	<.0001	0.05 -0.4883 -0.2528
TRTP	THSm2.2	SA	-0.07911	0.06146	141	-1.29	0.2001	0.05 -0.2006 0.04238
TRTP	mCC	SA	0.2915	0.06846	141	4.26	<.0001	0.05 0.1561 0.4268

**Listing 15.4.4.24.2 Analysis of CYP1A2 Activity (%) - FAS**

The where clause used on the dataset adam.adbx: anl02fl=Y and fasfl=Y

Paramcd: CYP1A2, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	160

**Number of Observations**

<b>Number of Observations Read</b>	160
<b>Number of Observations Used</b>	160
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.03366

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	-63.4
<b>AIC (Smaller is Better)</b>	-61.4
<b>AICC (Smaller is Better)</b>	-61.4
<b>BIC (Smaller is Better)</b>	-58.4

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>Num Den</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	154	282.52	<.0001
<b>SEX</b>	1	154	9.26	0.0028
<b>UCPDGR1</b>	1	154	0.53	0.4659
<b>TRTP</b>	2	154	51.04	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	3.9946	0.02907	154	137.43	<.0001	0.05	3.9372	4.0520
<b>TRTP</b>	THSm2.2	4.0129	0.02090	154	192.00	<.0001	0.05	3.9716	4.0542
<b>TRTP</b>	mCC	4.3400	0.02853	154	152.13	<.0001	0.05	4.2837	4.3964
<b>TRTP</b>	SA	3.9946	0.02907	154	137.43	<.0001	0.05	3.9372	4.0520
<b>TRTP</b>	THSm2.2	4.0129	0.02090	154	192.00	<.0001	0.05	3.9716	4.0542
<b>TRTP</b>	mCC	4.3400	0.02853	154	152.13	<.0001	0.05	4.2837	4.3964



Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.3454	0.04062	154	-8.50	<.0001	0.05	-0.4256	-0.2651
TRTP	THSm2.2	mCC	-0.3271	0.03516	154	-9.30	<.0001	0.05	-0.3966	-0.2577
TRTP	THSm2.2	SA	0.01826	0.03570	154	0.51	0.6098	0.05	-0.05226	0.08878
TRTP	mCC	SA	0.3454	0.04062	154	8.50	<.0001	0.05	0.2651	0.4256

**Listing 15.4.4.24.2 Analysis of CYP1A2 Activity (%) - FAS**

The where clause used on the dataset adam.adbx: anl02fl=Y and fasfl=Y

Paramcd: CYP1A2, Day 90 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	160

**Number of Observations**

<b>Number of Observations Read</b>	160
<b>Number of Observations Used</b>	160





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.08644

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	81.8
<b>AIC (Smaller is Better)</b>	83.8
<b>AICC (Smaller is Better)</b>	83.9
<b>BIC (Smaller is Better)</b>	86.9

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>LOGBASE</b>	1	154	78.11 <.0001
<b>SEX</b>	1	154	4.19 0.0424
<b>UCPDGR1</b>	1	154	1.85 0.1755
<b>TRTP</b>	2	154	19.96 <.0001

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	SA	4.0761	0.04658	154	87.50 <.0001	0.05	3.9840 4.1681
<b>TRTP</b>	THSm2.2	4.0079	0.03350	154	119.65 <.0001	0.05	3.9417 4.0741
<b>TRTP</b>	mCC	4.3594	0.04572	154	95.35 <.0001	0.05	4.2691 4.4497



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	4.0761	0.04658	154	87.50	<.0001	0.05	3.9840 4.1681
TRTP	THSm2.2	4.0079	0.03350	154	119.65	<.0001	0.05	3.9417 4.0741
TRTP	mCC	4.3594	0.04572	154	95.35	<.0001	0.05	4.2691 4.4497

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.2833	0.06510	154	-4.35	<.0001	0.05 -0.4119 -0.1547
TRTP	THSm2.2	mCC	-0.3515	0.05635	154	-6.24	<.0001	0.05 -0.4628 -0.2401
TRTP	THSm2.2	SA	-0.06816	0.05721	154	-1.19	0.2353	0.05 -0.1812 0.04486
TRTP	mCC	SA	0.2833	0.06510	154	4.35	<.0001	0.05 0.1547 0.4119

**Listing 15.4.4.24.2.1 Analysis of CYP1A2 Activity (%) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting CYP1A2 Activity - FAS**

The where clause used on the dataset adam.adbx: anl02fl=Y and anl03fl=Y and fasfl =Y

Paramcd: CYP1A2, Day 5 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	160

**Number of Observations**

<b>Number of Observations Read</b>	160
<b>Number of Observations Used</b>	160
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.03366

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	-63.4
<b>AIC (Smaller is Better)</b>	-61.4
<b>AICC (Smaller is Better)</b>	-61.4
<b>BIC (Smaller is Better)</b>	-58.4

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>Num Den</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	154	282.52	<.0001
<b>SEX</b>	1	154	9.26	0.0028
<b>UCPDGR1</b>	1	154	0.53	0.4659
<b>TRTP</b>	2	154	51.04	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	3.9946	0.02907	154	137.43	<.0001	0.05	3.9372	4.0520
<b>TRTP</b>	THSm2.2	4.0129	0.02090	154	192.00	<.0001	0.05	3.9716	4.0542
<b>TRTP</b>	mCC	4.3400	0.02853	154	152.13	<.0001	0.05	4.2837	4.3964
<b>TRTP</b>	SA	3.9946	0.02907	154	137.43	<.0001	0.05	3.9372	4.0520
<b>TRTP</b>	THSm2.2	4.0129	0.02090	154	192.00	<.0001	0.05	3.9716	4.0542
<b>TRTP</b>	mCC	4.3400	0.02853	154	152.13	<.0001	0.05	4.2837	4.3964



Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.3454	0.04062	154	-8.50	<.0001	0.05	-0.4256	-0.2651
TRTP	THSm2.2	mCC	-0.3271	0.03516	154	-9.30	<.0001	0.05	-0.3966	-0.2577
TRTP	THSm2.2	SA	0.01826	0.03570	154	0.51	0.6098	0.05	-0.05226	0.08878
TRTP	mCC	SA	0.3454	0.04062	154	8.50	<.0001	0.05	0.2651	0.4256

**Listing 15.4.4.24.2.1 Analysis of CYP1A2 Activity (%) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting CYP1A2 Activity - FAS**

The where clause used on the dataset adam.adbx: anl02fl=Y and anl03fl=Y and fasfl =Y

Paramcd: CYP1A2, Day 90 Model: MIXED, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	159

**Number of Observations**

<b>Number of Observations Read</b>	159
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**Number of Observations**

<b>Number of Observations Used</b>	159
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.08699
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	82.4
<b>AIC (Smaller is Better)</b>	84.4
<b>AICC (Smaller is Better)</b>	84.4
<b>BIC (Smaller is Better)</b>	87.4

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	153	77.17	<.0001
<b>SEX</b>	1	153	4.11	0.0444
<b>UCPDGR1</b>	1	153	1.87	0.1738
<b>TRTP</b>	2	153	19.84	<.0001

**Least Squares Means**

<b>Planned</b>	<b>Standard</b>						
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	<b>SA</b>	4.0749	0.04673	153	87.20	<.0001	0.05 3.9825 4.1672
<b>TRTP</b>	<b>THSm2.2</b>	4.0060	0.03380	153	118.52	<.0001	0.05 3.9392 4.0728



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	mCC	4.3581	0.04586	153	95.04	<.0001	0.05 4.2675 4.4487
TRTP	SA	4.0749	0.04673	153	87.20	<.0001	0.05 3.9825 4.1672
TRTP	THSm2.2	4.0060	0.03380	153	118.52	<.0001	0.05 3.9392 4.0728
TRTP	mCC	4.3581	0.04586	153	95.04	<.0001	0.05 4.2675 4.4487

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.2833	0.06531	153	-4.34	<.0001	0.05	-0.4123	-0.1543
TRTP	THSm2.2	mCC	-0.3521	0.05664	153	-6.22	<.0001	0.05	-0.4640	-0.2402
TRTP	THSm2.2	SA	-0.06886	0.05752	153	-1.20	0.2331	0.05	-0.1825	0.04477
TRTP	mCC	SA	0.2833	0.06531	153	4.34	<.0001	0.05	0.1543	0.4123



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
<b>N</b>	160	<b>Sum Weights</b>	160
<b>Mean</b>	0.4501875	<b>Sum Observations</b>	72.03
<b>Std Deviation</b>	1.3374337	<b>Variance</b>	1.7887289
<b>Skewness</b>	8.55513758	<b>Kurtosis</b>	82.0839467
<b>Uncorrected SS</b>	316.8349	<b>Corrected SS</b>	284.407894
<b>Coeff Variation</b>	297.083703	<b>Std Error Mean</b>	0.10573342

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	0.450188	<b>Std Deviation</b>	1.33743
<b>Median</b>	0.100000	<b>Variance</b>	1.78873
<b>Mode</b>	0.100000	<b>Range</b>	14.30000
		<b>Interquartile Range</b>	0.30500

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	<b>t</b>	4.25776	<b>Pr &gt;  t </b> <.0001
<b>Sign</b>	<b>M</b>	80	<b>Pr &gt;=  M </b> <.0001
<b>Signed Rank</b>	<b>S</b>	6440	<b>Pr &gt;=  S </b> <.0001

Tests for Normality			
Test	Statistic	p Value	
<b>Shapiro-Wilk</b>	<b>W</b>	0.24206	<b>Pr &lt; W</b> <0.0001
<b>Kolmogorov-Smirnov</b>	<b>D</b>	0.396724	<b>Pr &gt; D</b> <0.0100
<b>Cramer-von Mises</b>	<b>W-Sq</b>	7.596756	<b>Pr &gt; W-Sq</b> <0.0050



Tests for Normality			
Test	Statistic	p Value	
Anderson-Darling	A-Sq 37.71484	Pr > A-Sq	<0.0050

**Quantiles (Definition 5)**

Level	Quantile
100% Max	14.400
99%	8.310
95%	1.270
90%	0.895
75% Q3	0.405
50% Median	0.100
25% Q1	0.100
10%	0.100
5%	0.100
1%	0.100
0% Min	0.100

**Extreme****Observations**

Lowest		Highest	
Value	Obs	Value	Obs
0.1	160	1.70	151
0.1	159	1.93	127
0.1	158	2.27	129
0.1	157	8.31	74
0.1	156	14.40	96

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
<b>N</b>	150	<b>Sum Weights</b>	150
<b>Mean</b>	284	<b>Sum Observations</b>	42600
<b>Std Deviation</b>	52.5990277	<b>Variance</b>	2766.65772
<b>Skewness</b>	0.71157896	<b>Kurtosis</b>	-0.1971242
<b>Uncorrected SS</b>	12510632	<b>Corrected SS</b>	412232
<b>Coeff Variation</b>	18.5207844	<b>Std Error Mean</b>	4.29469263

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	284.0000	<b>Std Deviation</b>	52.59903
<b>Median</b>	271.0000	<b>Variance</b>	2767
<b>Mode</b>	250.0000	<b>Range</b>	239.00000
		<b>Interquartile Range</b>	83.00000

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	<b>t</b>	66.12813	<b>Pr &gt;  t </b> <.0001
<b>Sign</b>	<b>M</b>	75	<b>Pr &gt;=  M </b> <.0001
<b>Signed Rank</b>	<b>S</b>	5662.5	<b>Pr &gt;=  S </b> <.0001

Tests for Normality		
Test	Statistic	p Value



Tests for Normality			
Test	Statistic		p Value
Shapiro-Wilk	W	0.93966	Pr < W <0.0001
Kolmogorov-Smirnov	D	0.136122	Pr > D <0.0100
Cramer-von Mises	W-Sq	0.565016	Pr > W-Sq <0.0050
Anderson-Darling	A-Sq	3.195411	Pr > A-Sq <0.0050

#### Quantiles (Definition 5)

Level	Quantile
100% Max	431.0
99%	427.0
95%	379.0
90%	351.0
75% Q3	327.0
50% Median	271.0
25% Q1	244.0
10%	229.5
5%	216.0
1%	201.0
0% Min	192.0

#### Extreme

Observations			
Lowest		Highest	
Value	Obs	Value	Obs
192	264	409	233
201	254	413	256
207	164	414	208
209	270	427	303
211	258	431	195



Missing Values		
Percent Of		
Missing	Missing	
Value Count	All Obs	Obs
10	6.25	100.00

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
<b>N</b>	160	<b>Sum Weights</b>	160
<b>Mean</b>	85.21875	<b>Sum Observations</b>	13635
<b>Std Deviation</b>	7.20208904	<b>Variance</b>	51.8700865
<b>Skewness</b>	0.41126499	<b>Kurtosis</b>	0.17704132
<b>Uncorrected SS</b>	1170205	<b>Corrected SS</b>	8247.34375
<b>Coeff Variation</b>	8.45129626	<b>Std Error Mean</b>	0.56937513

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	85.21875	<b>Std Deviation</b>	7.20209
<b>Median</b>	85.00000	<b>Variance</b>	51.87009
<b>Mode</b>	85.00000	<b>Range</b>	40.00000
		<b>Interquartile Range</b>	10.00000

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	t	149.6707	Pr >  t  <.0001
<b>Sign</b>	M	80	Pr >=  M  <.0001
<b>Signed Rank</b>	S	6440	Pr >=  S  <.0001

Tests for Normality		
Test	Statistic	p Value



Tests for Normality			
Test	Statistic		p Value
Shapiro-Wilk	W	0.981015	Pr < W 0.0269
Kolmogorov-Smirnov	D	0.081809	Pr > D <0.0100
Cramer-von Mises	W-Sq	0.147495	Pr > W-Sq 0.0250
Anderson-Darling	A-Sq	0.857188	Pr > A-Sq 0.0274

Quantiles (Definition 5)

Level	Quantile
100% Max	110
99%	103
95%	99
90%	94
75% Q3	90
50% Median	85
25% Q1	80
10%	76
5%	74
1%	72
0% Min	70

Extreme

Observations			
Lowest		Highest	
Value	Obs	Value	Obs
70	328	101	406
72	383	101	420
72	380	101	480
72	352	103	393
72	334	110	473

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
<b>N</b>	160	<b>Sum Weights</b>	160
<b>Mean</b>	12.5961875	<b>Sum Observations</b>	2015.39
<b>Std Deviation</b>	9.97554802	<b>Variance</b>	99.5115583
<b>Skewness</b>	3.45954148	<b>Kurtosis</b>	13.4125424
<b>Uncorrected SS</b>	41208.5681	<b>Corrected SS</b>	15822.3378
<b>Coeff Variation</b>	79.1949788	<b>Std Error Mean</b>	0.78863632

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	12.59619	<b>Std Deviation</b>	9.97555
<b>Median</b>	9.81500	<b>Variance</b>	99.51156
<b>Mode</b>	6.82000	<b>Range</b>	65.30000
		<b>Interquartile Range</b>	4.77000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	<b>t</b>	15.97211	<b>Pr &gt;  t </b> <.0001
<b>Sign</b>	<b>M</b>	80	<b>Pr &gt;=  M </b> <.0001
<b>Signed Rank</b>	<b>S</b>	6440	<b>Pr &gt;=  S </b> <.0001



**Tests for Normality**

Test	Statistic	p Value
Shapiro-Wilk	W 0.575171	Pr < W <0.0001
Kolmogorov-Smirnov	D 0.300783	Pr > D <0.0100
Cramer-von Mises	W-Sq 4.175365	Pr > W-Sq <0.0050
Anderson-Darling	A-Sq 21.81929	Pr > A-Sq <0.0050

**Quantiles (Definition 5)**

Level	Quantile
100% Max	69.650
99%	61.440
95%	32.665
90%	18.585
75% Q3	12.570
50% Median	9.815
25% Q1	7.800
10%	6.685
5%	5.855
1%	4.970
0% Min	4.350

**Extreme****Observations**

Lowest	Highest
Value Obs	Value Obs
4.35 599	47.39 521
4.97 591	48.27 568
4.99 598	57.13 575
5.19 595	61.44 630



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<b>Extreme Observations</b>			
<b>Lowest</b>		<b>Highest</b>	
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
5.22	500	69.65	627

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
N	160	Sum Weights	160
Mean	229.6375	Sum Observations	36742
Std Deviation	50.7511486	Variance	2575.67909
Skewness	1.11361422	Kurtosis	2.94490463
Uncorrected SS	8846874	Corrected SS	409532.975
Coeff Variation	22.1005492	Std Error Mean	4.01223059

Basic Statistical Measures			
Location		Variability	
Mean	229.6375	Std Deviation	50.75115
Median	224.0000	Variance	2576
Mode	244.0000	Range	308.00000
		Interquartile Range	63.50000

Tests for Location: Mu0=0			
Test	Statistic	p Value	
Student's t	t	57.23437	Pr >  t  <.0001
Sign	M	80	Pr >=  M  <.0001
Signed Rank	S	6440	Pr >=  S  <.0001

Tests for Normality		
Test	Statistic	p Value



Tests for Normality			
Test	Statistic		p Value
Shapiro-Wilk	W	0.939775	Pr < W <0.0001
Kolmogorov-Smirnov	D	0.072	Pr > D 0.0417
Cramer-von Mises	W-Sq	0.164604	Pr > W-Sq 0.0164
Anderson-Darling	A-Sq	1.168352	Pr > A-Sq <0.0050

#### Quantiles (Definition 5)

Level	Quantile
100% Max	448.0
99%	444.0
95%	315.0
90%	285.5
75% Q3	259.5
50% Median	224.0
25% Q1	196.0
10%	168.5
5%	159.0
1%	145.0
0% Min	140.0

#### Extreme

Observations			
Lowest		Highest	
Value	Obs	Value	Obs
140	712	331	743
145	709	335	730
147	799	363	788
147	744	444	670
148	689	448	783

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 5 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 5 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8.15826278	1.63165256	43.16	<.0001
Error	151	5.70846091	0.03780438		
Corrected Total	156	13.86672370			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.588334	3.689538	0.194433	5.269859

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.06993203	8.06993203	213.47	<.0001
SEX	1	0.00052508	0.00052508	0.01	0.9063
UCPDGR1	1	0.04530256	0.04530256	1.20	0.2754
TRTP	2	0.04250310	0.02125155	0.56	0.5712

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.79597205	7.79597205	206.22	<.0001
SEX	1	0.00174143	0.00174143	0.05	0.8303
UCPDGR1	1	0.04818140	0.04818140	1.27	0.2607
TRTP	2	0.04250310	0.02125155	0.56	0.5712

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.26646691	0.4688
<b>THSm2.2</b>	5.25875300	0.2971
<b>mCC</b>	5.29790197	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.266467	5.204814 5.328120
<b>THSm2.2</b>	5.258753	5.214484 5.303022
<b>mCC</b>	5.297902	5.238214 5.357590

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.031435	-0.116944	0.054074
<b>2 3</b>	-0.039149	-0.113080	0.034782

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.26646691	
THSm2.2	5.25875300	0.8407
mCC	5.29790197	0.4688

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.266467	5.204814 5.328120
THSm2.2	5.258753	5.214484 5.303022
mCC	5.297902	5.238214 5.357590

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.007714	-0.083390 0.067962
3	1	0.031435	-0.054074 0.116944

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7.31960138	1.46392028	28.39	<.0001
Error	148	7.63043261	0.05155698		
Corrected Total	153	14.95003398			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.489604	4.254461	0.227062	5.337024

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.92721244	6.92721244	134.36	<.0001
SEX	1	0.06824716	0.06824716	1.32	0.2518
UCPDGR1	1	0.09179590	0.09179590	1.78	0.1841
TRTP	2	0.23234587	0.11617293	2.25	0.1086

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.76877366	6.76877366	131.29	<.0001
SEX	1	0.05807905	0.05807905	1.13	0.2903
UCPDGR1	1	0.10222784	0.10222784	1.98	0.1612
TRTP	2	0.23234587	0.11617293	2.25	0.1086

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.35368762	0.5064
THSm2.2	5.29717347	0.0429
mCC	5.38755958	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.353688	5.281674 5.425701
THSm2.2	5.297173	5.244765 5.349582
mCC	5.387560	5.317008 5.458111

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.033872	-0.134362	0.066618
2 3	-0.090386	-0.177848	-0.002924

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.35368762	
THSm2.2	5.29717347	0.2105
mCC	5.38755958	0.5064

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.353688	5.281674 5.425701
THSm2.2	5.297173	5.244765 5.349582
mCC	5.387560	5.317008 5.458111

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.056514	-0.145308	0.032280
3 1	0.033872	-0.066618	0.134362

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.86372266	1.97274453	29.13	<.0001
Error	144	9.75233283	0.06772453		
Corrected Total	149	19.61605549			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.502839	4.873637	0.260239	5.339737

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.14423374	9.14423374	135.02	<.0001
SEX	1	0.02119660	0.02119660	0.31	0.5767
UCPDGR1	1	0.01011451	0.01011451	0.15	0.6997
TRTP	2	0.68817781	0.34408890	5.08	0.0074

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.95187211	8.95187211	132.18	<.0001
SEX	1	0.01765028	0.01765028	0.26	0.6105
UCPDGR1	1	0.01926652	0.01926652	0.28	0.5946
TRTP	2	0.68817781	0.34408890	5.08	0.0074

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.33842539	0.0794
THSm2.2	5.27919016	0.0018
mCC	5.44209781	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.338425	5.254816 5.422035
THSm2.2	5.279190	5.217775 5.340605
mCC	5.442098	5.361215 5.522980

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.103672	-0.219645	0.012301
2 3	-0.162908	-0.263921	-0.061894

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.33842539	
THSm2.2	5.27919016	0.2596
mCC	5.44209781	0.0794

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.338425	5.254816 5.422035
THSm2.2	5.279190	5.217775 5.340605
mCC	5.442098	5.361215 5.522980

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.059235	-0.162690 0.044219
3	1	0.103672	-0.012301 0.219645

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8.76478187	1.75295637	21.91	<.0001
Error	142	11.35886155	0.07999198		
Corrected Total	147	20.12364342			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.435546	5.313829	0.282829	5.322500

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.69100712	7.69100712	96.15	<.0001
SEX	1	0.18600597	0.18600597	2.33	0.1295
UCPDGR1	1	0.39429453	0.39429453	4.93	0.0280
TRTP	2	0.49347425	0.24673713	3.08	0.0488

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.40684765	7.40684765	92.59	<.0001
SEX	1	0.13851095	0.13851095	1.73	0.1903
UCPDGR1	1	0.43115958	0.43115958	5.39	0.0217
TRTP	2	0.49347425	0.24673713	3.08	0.0488

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.34051433	0.3436
<b>THSm2.2</b>	5.26557806	0.0159
<b>mCC</b>	5.40149269	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.340514	5.248293 5.432736
<b>THSm2.2</b>	5.265578	5.198511 5.332645
<b>mCC</b>	5.401493	5.313571 5.489414

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.060978	-0.187826	0.065870
<b>2 3</b>	-0.135915	-0.245997	-0.025833

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.34051433	
THSm2.2	5.26557806	0.1947
mCC	5.40149269	0.3436

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.340514	5.248293 5.432736
THSm2.2	5.265578	5.198511 5.332645
mCC	5.401493	5.313571 5.489414

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.074936	-0.188626 0.038753
3	1	0.060978	-0.065870 0.187826

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.24716016	1.84943203	39.65	<.0001
Error	151	7.04327322	0.04664419		
Corrected Total	156	16.29043338			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.567644	3.412360	0.215973	6.329129

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.39246015	8.39246015	179.93	<.0001
SEX	1	0.25966245	0.25966245	5.57	0.0196
UCPDGR1	1	0.04198385	0.04198385	0.90	0.3443
TRTP	2	0.55305371	0.27652686	5.93	0.0033

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.08549877	8.08549877	173.34	<.0001
SEX	1	0.27370169	0.27370169	5.87	0.0166
UCPDGR1	1	0.05139522	0.05139522	1.10	0.2955
TRTP	2	0.55305371	0.27652686	5.93	0.0033

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.26435724	0.0010
<b>THSm2.2</b>	6.32278433	0.0134
<b>mCC</b>	6.42725220	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	6.264357	6.195619 6.333095
<b>THSm2.2</b>	6.322784	6.273574 6.371995
<b>mCC</b>	6.427252	6.360716 6.493788

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.162895	-0.258587	-0.067203
<b>2 3</b>	-0.104468	-0.186959	-0.021976

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	6.26435724	
THSm2.2	6.32278433	0.1721
mCC	6.42725220	0.0010

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	6.264357	6.195619 6.333095
THSm2.2	6.322784	6.273574 6.371995
mCC	6.427252	6.360716 6.493788

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.058427	-0.025718	0.142572
3 1	0.162895	0.067203	0.258587

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	10.81788410	2.16357682	27.70	<.0001
Error	148	11.56158421	0.07811881		
Corrected Total	153	22.37946832			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.483384	4.501654	0.279497	6.208772

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.21452659	9.21452659	117.96	<.0001
SEX	1	0.25810407	0.25810407	3.30	0.0711
UCPDGR1	1	0.46875428	0.46875428	6.00	0.0155
TRTP	2	0.87649916	0.43824958	5.61	0.0045

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.81830257	8.81830257	112.88	<.0001
SEX	1	0.28811666	0.28811666	3.69	0.0567
UCPDGR1	1	0.51805086	0.51805086	6.63	0.0110
TRTP	2	0.87649916	0.43824958	5.61	0.0045

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	6.21459656	0.0536
THSm2.2	6.15404170	0.0010
mCC	6.33708663	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	6.214597	6.125677 6.303516
THSm2.2	6.154042	6.089496 6.218587
mCC	6.337087	6.250028 6.424146

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.122490	-0.246904	0.001924
2 3	-0.183045	-0.291053	-0.075036

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	6.21459656	
THSm2.2	6.15404170	0.2758
mCC	6.33708663	0.0536

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	6.214597	6.125677 6.303516
THSm2.2	6.154042	6.089496 6.218587
mCC	6.337087	6.250028 6.424146

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.060555	-0.169954 0.048844
3	1	0.122490	-0.001924 0.246904

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7.64453153	1.52890631	15.20	<.0001
Error	144	14.48789225	0.10061036		
Corrected Total	149	22.13242378			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.345400	5.145311	0.317191	6.164668

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.58529230	5.58529230	55.51	<.0001
SEX	1	0.71795495	0.71795495	7.14	0.0084
UCPDGR1	1	0.51841785	0.51841785	5.15	0.0247
TRTP	2	0.82286642	0.41143321	4.09	0.0187

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.26390728	5.26390728	52.32	<.0001
SEX	1	0.76552921	0.76552921	7.61	0.0066
UCPDGR1	1	0.56826372	0.56826372	5.65	0.0188
TRTP	2	0.82286642	0.41143321	4.09	0.0187

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.12822209	0.0182
<b>THSm2.2</b>	6.13535032	0.0093
<b>mCC</b>	6.30041152	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	6.128222	6.025889 6.230555
<b>THSm2.2</b>	6.135350	6.060461 6.210239
<b>mCC</b>	6.300412	6.201447 6.399376

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.172189	-0.314693	-0.029686
<b>2 3</b>	-0.165061	-0.288737	-0.041385

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	6.12822209	
THSm2.2	6.13535032	0.9113
mCC	6.30041152	0.0182

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	6.128222	6.025889 6.230555
THSm2.2	6.135350	6.060461 6.210239
mCC	6.300412	6.201447 6.399376

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.007128	-0.119116 0.133372
3	1	0.172189	0.029686 0.314693

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.16539366	1.83307873	18.54	<.0001
Error	142	14.04035680	0.09887575		
Corrected Total	147	23.20575046			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.394962	5.075553	0.314445	6.195289

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.65917189	6.65917189	67.35	<.0001
SEX	1	1.46378871	1.46378871	14.80	0.0002
UCPDGR1	1	0.15397299	0.15397299	1.56	0.2141
TRTP	2	0.88846006	0.44423003	4.49	0.0128

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.15986146	6.15986146	62.30	<.0001
SEX	1	1.49827343	1.49827343	15.15	0.0002
UCPDGR1	1	0.16093774	0.16093774	1.63	0.2041
TRTP	2	0.88846006	0.44423003	4.49	0.0128

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.09440053	0.0033
<b>THSm2.2</b>	6.21563961	0.1327
<b>mCC</b>	6.30974238	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	6.094401	5.991447	6.197354
<b>THSm2.2</b>	6.215640	6.141035	6.290244
<b>mCC</b>	6.309742	6.211569	6.407916

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.215342	-0.357584	-0.073100
<b>2 3</b>	-0.094103	-0.217112	0.028906

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	6.09440053	
THSm2.2	6.21563961	0.0603
mCC	6.30974238	0.0033

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	6.094401	5.991447	6.197354
THSm2.2	6.215640	6.141035	6.290244
mCC	6.309742	6.211569	6.407916

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.121239	-0.005305 0.247783
3	1	0.215342	0.073100 0.357584

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 6/Discharge Confinement Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 6/Discharge Confinement Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	19.75046958	3.95009392	116.00	<.0001
Error	151	5.14176934	0.03405145		
Corrected Total	156	24.89223892			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.793439	3.468989	0.184530	5.319428

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	19.54331841	19.54331841	573.93	<.0001
SEX	1	0.11323690	0.11323690	3.33	0.0702
UCPDGR1	1	0.01840672	0.01840672	0.54	0.4633
TRTP	2	0.07550755	0.03775377	1.11	0.3326

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	19.38929121	19.38929121	569.41	<.0001
SEX	1	0.12251203	0.12251203	3.60	0.0598
UCPDGR1	1	0.02058170	0.02058170	0.60	0.4381
TRTP	2	0.07550755	0.03775377	1.11	0.3326

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 6/Discharge Confinement Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.29762295	0.1474
THSm2.2	5.31920841	0.2857
mCC	5.35748028	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.297623	5.239106 5.356140
THSm2.2	5.319208	5.277082 5.361335
mCC	5.357480	5.300676 5.414285

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.059857	-0.141070	0.021355
2 3	-0.038272	-0.108843	0.032300

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 6/Discharge Confinement Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.29762295	
THSm2.2	5.31920841	0.5541
mCC	5.35748028	0.1474

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.297623	5.239106 5.356140
THSm2.2	5.319208	5.277082 5.361335
mCC	5.357480	5.300676 5.414285

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.021585	-0.050337	0.093508
3 1	0.059857	-0.021355	0.141070

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	18.35606309	3.67121262	61.28	<.0001
Error	148	8.86596656	0.05990518		
Corrected Total	153	27.22202965			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.674309	4.629474	0.244755	5.286893

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	16.16722791	16.16722791	269.88	<.0001
SEX	1	1.74810992	1.74810992	29.18	<.0001
UCPDGR1	1	0.24491928	0.24491928	4.09	0.0450
TRTP	2	0.19580598	0.09790299	1.63	0.1986

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	15.99484475	15.99484475	267.00	<.0001
SEX	1	1.80726617	1.80726617	30.17	<.0001
UCPDGR1	1	0.26307908	0.26307908	4.39	0.0378
TRTP	2	0.19580598	0.09790299	1.63	0.1986

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.29512559	0.2174
THSm2.2	5.27741195	0.0763
mCC	5.36306050	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.295126	5.217496 5.372755
THSm2.2	5.277412	5.220765 5.334059
mCC	5.363061	5.286826 5.439295

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.067935	-0.176313	0.040443
2 3	-0.085649	-0.180449	0.009152

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 30 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.29512559	
<b>THSm2.2</b>	5.27741195	0.7155
<b>mCC</b>	5.36306050	0.2174

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.295126	5.217496 5.372755
<b>THSm2.2</b>	5.277412	5.220765 5.334059
<b>mCC</b>	5.363061	5.286826 5.439295

**Least Squares Means for Effect**

<b>TRTP</b>			
		<b>Difference</b>	<b>95% Confidence</b>
		<b>Between</b>	<b>Limits for</b>
<b>i</b>	<b>j</b>	<b>Means LSMean(i)-LSMean(j)</b>	
<b>2</b>	<b>1</b>	-0.017714	-0.113564 0.078137
<b>3</b>	<b>1</b>	0.067935	-0.040443 0.176313

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	15.12416954	3.02483391	52.26	<.0001
Error	144	8.33487679	0.05788109		
Corrected Total	149	23.45904633			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.644705	4.644384	0.240585	5.180125

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.39370189	14.39370189	248.68	<.0001
SEX	1	0.68969980	0.68969980	11.92	0.0007
UCPDGR1	1	0.00183875	0.00183875	0.03	0.8588
TRTP	2	0.03892911	0.01946455	0.34	0.7150

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.46645270	14.46645270	249.93	<.0001
SEX	1	0.68611234	0.68611234	11.85	0.0008
UCPDGR1	1	0.00120199	0.00120199	0.02	0.8856
TRTP	2	0.03892911	0.01946455	0.34	0.7150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.15971838	0.5007
<b>THSm2.2</b>	5.16015103	0.4478
<b>mCC</b>	5.19634196	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.159718	5.082410 5.237026
<b>THSm2.2</b>	5.160151	5.103186 5.217116
<b>mCC</b>	5.196342	5.121377 5.271307

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.036624	-0.143844	0.070597
<b>2 3</b>	-0.036191	-0.130166	0.057785

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.15971838	
THSm2.2	5.16015103	0.9929
mCC	5.19634196	0.5007

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.159718	5.082410 5.237026
THSm2.2	5.160151	5.103186 5.217116
mCC	5.196342	5.121377 5.271307

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.000433	-0.095413	0.096278
3 1	0.036624	-0.070597	0.143844

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	16.61917115	3.32383423	102.49	<.0001
Error	142	4.60513682	0.03243054		
Corrected Total	147	21.22430797			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.783025	3.450660	0.180085	5.218852

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	16.30804871	16.30804871	502.86	<.0001
SEX	1	0.00118159	0.00118159	0.04	0.8489
UCPDGR1	1	0.00521074	0.00521074	0.16	0.6891
TRTP	2	0.30473011	0.15236506	4.70	0.0106

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	16.41415367	16.41415367	506.13	<.0001
SEX	1	0.00043564	0.00043564	0.01	0.9079
UCPDGR1	1	0.00779358	0.00779358	0.24	0.6247
TRTP	2	0.30473011	0.15236506	4.70	0.0106

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.17599379	0.0056
THSm2.2	5.19977602	0.0116
mCC	5.29102868	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.175994	5.117263 5.234725
THSm2.2	5.199776	5.156932 5.242620
mCC	5.291029	5.234903 5.347154

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.115035	-0.195834	-0.034236
2 3	-0.091253	-0.161785	-0.020720

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.17599379	
<b>THSm2.2</b>	5.19977602	0.5180
<b>mCC</b>	5.29102868	0.0056

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.175994	5.117263 5.234725
<b>THSm2.2</b>	5.199776	5.156932 5.242620
<b>mCC</b>	5.291029	5.234903 5.347154

**Least Squares Means for Effect**

<b>TRTP</b>			
		<b>Difference</b>	<b>95% Confidence</b>
		<b>Between</b>	<b>Limits for</b>
<b>i j</b>	<b>Means</b>	<b>LSMean(i)-LSMean(j)</b>	
<b>2 1</b>	0.023782	-0.048755	0.096320
<b>3 1</b>	0.115035	0.034236	0.195834

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.51214645	0.10242929	24.73	<.0001
Error	148	0.61299669	0.00414187		
Corrected Total	153	1.12514315			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.455183	1.427385	0.064357	4.508759

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.46880031	0.46880031	113.19	<.0001
SEX	1	0.03389735	0.03389735	8.18	0.0048
UCPDGR1	1	0.00008564	0.00008564	0.02	0.8859
TRTP	2	0.00936315	0.00468158	1.13	0.3257

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.48709633	0.48709633	117.60	<.0001
SEX	1	0.03401098	0.03401098	8.21	0.0048
UCPDGR1	1	0.00003657	0.00003657	0.01	0.9253
TRTP	2	0.00936315	0.00468158	1.13	0.3257

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.51697046	0.8492
THSm2.2	4.50288144	0.1819
mCC	4.51971529	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.516970	4.496557 4.537384
THSm2.2	4.502881	4.488017 4.517745
mCC	4.519715	4.499728 4.539703

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.002745	-0.031222	0.025733
2 3	-0.016834	-0.041635	0.007967

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.51697046	
THSm2.2	4.50288144	0.2704
mCC	4.51971529	0.8492

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.516970	4.496557 4.537384
THSm2.2	4.502881	4.488017 4.517745
mCC	4.519715	4.499728 4.539703

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	-0.014089	-0.039255 0.011077
3	1	0.002745	-0.025733 0.031222

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.37667005	0.07533401	21.37	<.0001
Error	144	0.50766378	0.00352544		
Corrected Total	149	0.88433383			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.425936	1.319188	0.059375	4.500908

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.32928417	0.32928417	93.40	<.0001
SEX	1	0.00633711	0.00633711	1.80	0.1821
UCPDGR1	1	0.00007850	0.00007850	0.02	0.8816
TRTP	2	0.04097027	0.02048513	5.81	0.0037

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.27752814	0.27752814	78.72	<.0001
SEX	1	0.00571007	0.00571007	1.62	0.2052
UCPDGR1	1	0.00023691	0.00023691	0.07	0.7958
TRTP	2	0.04097027	0.02048513	5.81	0.0037

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.47866345	0.0009
<b>THSm2.2</b>	4.49770413	0.0264
<b>mCC</b>	4.52387145	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.478663	4.459590 4.497737
<b>THSm2.2</b>	4.497704	4.483681 4.511727
<b>mCC</b>	4.523871	4.505427 4.542316

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.045208	-0.071653	-0.018763
<b>2 3</b>	-0.026167	-0.049223	-0.003111

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.47866345	
THSm2.2	4.49770413	0.1130
mCC	4.52387145	0.0009

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.478663	4.459590 4.497737
THSm2.2	4.497704	4.483681 4.511727
mCC	4.523871	4.505427 4.542316

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.019041	-0.004561 0.042643
3	1	0.045208	0.018763 0.071653

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 91/Discharge Ambulatory Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 91/Discharge Ambulatory Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.42414416	0.08482883	18.90	<.0001
Error	142	0.63728362	0.00448791		
Corrected Total	147	1.06142778			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.399598	1.490343	0.066992	4.495064

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.38365050	0.38365050	85.49	<.0001
SEX	1	0.00661191	0.00661191	1.47	0.2268
UCPDGR1	1	0.00379530	0.00379530	0.85	0.3593
TRTP	2	0.03008644	0.01504322	3.35	0.0378

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.34501465	0.34501465	76.88	<.0001
SEX	1	0.00649312	0.00649312	1.45	0.2310
UCPDGR1	1	0.00370526	0.00370526	0.83	0.3651
TRTP	2	0.03008644	0.01504322	3.35	0.0378

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 91/Discharge Ambulatory Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.47024452	0.0138
<b>THSm2.2</b>	4.49784131	0.4370
<b>mCC</b>	4.50812738	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.470245	4.448401 4.492088
<b>THSm2.2</b>	4.497841	4.481948 4.513735
<b>mCC</b>	4.508127	4.487310 4.528944

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.037883	-0.067918	-0.007847
<b>2 3</b>	-0.010286	-0.036370	0.015798

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: GLUC, Day 91/Discharge Ambulatory Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.47024452	
THSm2.2	4.49784131	0.0447
mCC	4.50812738	0.0138

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.470245	4.448401 4.492088
THSm2.2	4.497841	4.481948 4.513735
mCC	4.508127	4.487310 4.528944

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.027597	0.000665	0.054529
3 1	0.037883	0.007847	0.067918

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: CRP, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: CRP, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	43.9662485	8.7932497	9.38	<.0001
Error	148	138.8056647	0.9378761		
Corrected Total	153	182.7719131			

R-Square	Coeff	Var	Root MSE	LOGAVAL Mean
0.240553	-64.27171	0.968440	-1.506790	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	41.51405454	41.51405454	44.26	<.0001
SEX	1	2.41780191	2.41780191	2.58	0.1105
UCPDGR1	1	0.00014004	0.00014004	0.00	0.9903
TRTP	2	0.03425197	0.01712599	0.02	0.9819

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	36.82676702	36.82676702	39.27	<.0001
SEX	1	2.41126898	2.41126898	2.57	0.1110
UCPDGR1	1	0.00011134	0.00011134	0.00	0.9913
TRTP	2	0.03425197	0.01712599	0.02	0.9819

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: CRP, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.54809666	0.9239
THSm2.2	-1.51161249	0.9340
mCC	-1.52728587	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.548097	-1.855554 -1.240640
THSm2.2	-1.511612	-1.735131 -1.288094
mCC	-1.527286	-1.828857 -1.225715

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.020811	-0.450776	0.409155
2 3	0.015673	-0.357959	0.389306

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: CRP, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.54809666	
THSm2.2	-1.51161249	0.8494
mCC	-1.52728587	0.9239

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.548097	-1.855554 -1.240640
THSm2.2	-1.511612	-1.735131 -1.288094
mCC	-1.527286	-1.828857 -1.225715

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	0.036484	-0.342457 0.415425
3	1	0.020811	-0.409155 0.450776

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: CRP, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: CRP, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	38.8428648	7.7685730	8.38	<.0001
Error	144	133.4426748	0.9266852		
Corrected Total	149	172.2855395			

R-Square	Coeff	Var	Root MSE	LOGAVAL Mean
0.225456	-62.84527	0.962645	-1.531770	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	36.06670915	36.06670915	38.92	<.0001
SEX	1	1.85140027	1.85140027	2.00	0.1597
UCPDGR1	1	0.56245004	0.56245004	0.61	0.4372
TRTP	2	0.36230530	0.18115265	0.20	0.8227

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	31.40546410	31.40546410	33.89	<.0001
SEX	1	1.84604529	1.84604529	1.99	0.1603
UCPDGR1	1	0.57784387	0.57784387	0.62	0.4310
TRTP	2	0.36230530	0.18115265	0.20	0.8227

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: CRP, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.46582516	0.7128
THSm2.2	-1.58695919	0.8293
mCC	-1.54607983	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.465825	-1.775386 -1.156265
THSm2.2	-1.586959	-1.814116 -1.359803
mCC	-1.546080	-1.845741 -1.246419

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	0.080255	-0.349791	0.510300
2 3	-0.040879	-0.414872	0.333113

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: CRP, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.46582516	
THSm2.2	-1.58695919	0.5328
mCC	-1.54607983	0.7128

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.465825	-1.775386 -1.156265
THSm2.2	-1.586959	-1.814116 -1.359803
mCC	-1.546080	-1.845741 -1.246419

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.121134	-0.504072	0.261804
3 1	-0.080255	-0.510300	0.349791

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: CRP, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: CRP, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	29.6220632	5.9244126	5.40	0.0001
Error	142	155.6930728	1.0964301		
Corrected Total	147	185.3151360			

R-Square	Coeff	Var	Root MSE	LOGAVAL Mean
0.159847	-73.44389	1.047106	-1.425722	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.37930329	24.37930329	22.24	<.0001
SEX	1	0.93846498	0.93846498	0.86	0.3565
UCPDGR1	1	3.75052885	3.75052885	3.42	0.0665
TRTP	2	0.55376612	0.27688306	0.25	0.7772

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	20.52517538	20.52517538	18.72	<.0001
SEX	1	0.78605071	0.78605071	0.72	0.3986
UCPDGR1	1	3.74723216	3.74723216	3.42	0.0666
TRTP	2	0.55376612	0.27688306	0.25	0.7772

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: CRP, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.51975326	0.4812
THSm2.2	-1.41771876	0.7487
mCC	-1.35145697	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.519753	-1.861664 -1.177842
THSm2.2	-1.417719	-1.665971 -1.169466
mCC	-1.351457	-1.677482 -1.025432

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.168296	-0.639384	0.302791
2 3	-0.066262	-0.474280	0.341756

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: CRP, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.51975326	
THSm2.2	-1.41771876	0.6328
mCC	-1.35145697	0.4812

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.519753	-1.861664 -1.177842
THSm2.2	-1.417719	-1.665971 -1.169466
mCC	-1.351457	-1.677482 -1.025432

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.102034	-0.319236 0.523305
3	1	0.168296	-0.302791 0.639384

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	32.42362658	6.48472532	210.31	<.0001
Error	148	4.56355564	0.03083484		
Corrected Total	153	36.98718222			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.876618	7.243397	0.175599	2.424256

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.29572995	32.29572995	1047.38	<.0001
SEX	1	0.01681113	0.01681113	0.55	0.4615
UCPDGR1	1	0.04951296	0.04951296	1.61	0.2071
TRTP	2	0.06157255	0.03078627	1.00	0.3709

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	24.49762332	24.49762332	794.48	<.0001
SEX	1	0.01321241	0.01321241	0.43	0.5137
UCPDGR1	1	0.04857954	0.04857954	1.58	0.2114
TRTP	2	0.06157255	0.03078627	1.00	0.3709

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 30 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.39278569	0.4869
<b>THSm2.2</b>	2.44186667	0.5282
<b>mCC</b>	2.42019664	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.392786	2.337064 2.448508
<b>THSm2.2</b>	2.441867	2.401048 2.482686
<b>mCC</b>	2.420197	2.365664 2.474729

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.027411	-0.105134	0.050313
<b>2 3</b>	0.021670	-0.046067	0.089407

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	2.39278569	
THSm2.2	2.44186667	0.1619
mCC	2.42019664	0.4869

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	2.392786	2.337064 2.448508
THSm2.2	2.441867	2.401048 2.482686
mCC	2.420197	2.365664 2.474729

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.049081	-0.019915	0.118077
3 1	0.027411	-0.050313	0.105134

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	34.14483310	6.82896662	152.15	<.0001
Error	144	6.46328813	0.04488395		
Corrected Total	149	40.60812123			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.840838	8.874011	0.211858	2.387402

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.99136704	32.99136704	735.04	<.0001
SEX	1	1.02347551	1.02347551	22.80	<.0001
UCPDGR1	1	0.06016424	0.06016424	1.34	0.2489
TRTP	2	0.06982632	0.03491316	0.78	0.4613

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	20.45953353	20.45953353	455.83	<.0001
SEX	1	1.02680984	1.02680984	22.88	<.0001
UCPDGR1	1	0.05513221	0.05513221	1.23	0.2696
TRTP	2	0.06982632	0.03491316	0.78	0.4613

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.39432322	0.2568
<b>THSm2.2</b>	2.38371473	0.2948
<b>mCC</b>	2.33993068	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.394323	2.326243 2.462403
<b>THSm2.2</b>	2.383715	2.333418 2.434012
<b>mCC</b>	2.339931	2.274093 2.405768

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.054393	-0.040034	0.148819
<b>2 3</b>	0.043784	-0.038523	0.126091

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.39432322	
<b>THSm2.2</b>	2.38371473	0.8044
<b>mCC</b>	2.33993068	0.2568

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.394323	2.326243 2.462403
<b>THSm2.2</b>	2.383715	2.333418 2.434012
<b>mCC</b>	2.339931	2.274093 2.405768

**Least Squares Means for Effect**

<b>TRTP</b>			
		<b>Difference</b>	<b>95% Confidence</b>
		<b>Between</b>	<b>Limits for</b>
<b>i j</b>	<b>Means</b>	<b>LSMean(i)-LSMean(j)</b>	
<b>2 1</b>	-0.010608	-0.095127	0.073910
<b>3 1</b>	-0.054393	-0.148819	0.040034

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	29.68974152	5.93794830	158.67	<.0001
Error	142	5.31424412	0.03742425		
Corrected Total	147	35.00398564			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.848182	7.779869	0.193453	2.486590

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	29.51303861	29.51303861	788.61	<.0001
SEX	1	0.13406131	0.13406131	3.58	0.0604
UCPDGR1	1	0.01224509	0.01224509	0.33	0.5682
TRTP	2	0.03039651	0.01519825	0.41	0.6670

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	20.66467203	20.66467203	552.17	<.0001
SEX	1	0.14049300	0.14049300	3.75	0.0547
UCPDGR1	1	0.01214932	0.01214932	0.32	0.5697
TRTP	2	0.03039651	0.01519825	0.41	0.6670

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.50557473	0.4049
<b>THSm2.2</b>	2.47544430	0.8638
<b>mCC</b>	2.46889342	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.505575	2.442480 2.568669
<b>THSm2.2</b>	2.475444	2.429346 2.521542
<b>mCC</b>	2.468893	2.408756 2.529031

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.036681	-0.050113	0.123476
<b>2 3</b>	0.006551	-0.068794	0.081896

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	2.50557473	
THSm2.2	2.47544430	0.4463
mCC	2.46889342	0.4049

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	2.505575	2.442480 2.568669
THSm2.2	2.475444	2.429346 2.521542
mCC	2.468893	2.408756 2.529031

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.030130	-0.108122	0.047861
3 1	-0.036681	-0.123476	0.050113

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 145

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1.77920802	0.35584160	17.03	<.0001
Error	139	2.90393156	0.02089159		
Corrected Total	144	4.68313958			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.379918	2.565320	0.144539	5.634356

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.63231211	1.63231211	78.13	<.0001
SEX	1	0.04522848	0.04522848	2.16	0.1435
UCPDGR1	1	0.03530737	0.03530737	1.69	0.1957
TRTP	2	0.06636006	0.03318003	1.59	0.2080

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.62365337	1.62365337	77.72	<.0001
SEX	1	0.04061057	0.04061057	1.94	0.1655
UCPDGR1	1	0.03081376	0.03081376	1.47	0.2266
TRTP	2	0.06636006	0.03318003	1.59	0.2080

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 30 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.63245856	0.2486
<b>THSm2.2</b>	5.62025877	0.0793
<b>mCC</b>	5.67109721	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.632459	5.584415 5.680502
<b>THSm2.2</b>	5.620259	5.585431 5.655087
<b>mCC</b>	5.671097	5.625494 5.716700

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.038639	-0.104576	0.027299
<b>2 3</b>	-0.050838	-0.107694	0.006017

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.63245856	
THSm2.2	5.62025877	0.6826
mCC	5.67109721	0.2486

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.632459	5.584415 5.680502
THSm2.2	5.620259	5.585431 5.655087
mCC	5.671097	5.625494 5.716700

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.012200	-0.071072	0.046673
3 1	0.038639	-0.027299	0.104576

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 153

**Number of Observations Used** 140

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1.32425079	0.26485016	8.28	<.0001
Error	134	4.28777815	0.03199834		
Corrected Total	139	5.61202894			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.235966	3.183686	0.178881	5.618670

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.18628700	1.18628700	37.07	<.0001
SEX	1	0.08127020	0.08127020	2.54	0.1134
UCPDGR1	1	0.02710257	0.02710257	0.85	0.3591
TRTP	2	0.02959102	0.01479551	0.46	0.6308

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.15233291	1.15233291	36.01	<.0001
SEX	1	0.07611646	0.07611646	2.38	0.1254
UCPDGR1	1	0.02634560	0.02634560	0.82	0.3658
TRTP	2	0.02959102	0.01479551	0.46	0.6308

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.63710628	0.9796
THSm2.2	5.60738740	0.4272
mCC	5.63604480	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.637106	5.576905 5.697308
THSm2.2	5.607387	5.562911 5.651864
mCC	5.636045	5.579577 5.692512

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	0.001061	-0.081067	0.083190
2 3	-0.028657	-0.099830	0.042515

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.63710628	
THSm2.2	5.60738740	0.4301
mCC	5.63604480	0.9796

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.637106	5.576905 5.697308
THSm2.2	5.607387	5.562911 5.651864
mCC	5.636045	5.579577 5.692512

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.029719	-0.103997	0.044560
3 1	-0.001061	-0.083190	0.081067

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 149

**Number of Observations Used** 139

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1.29070868	0.25814174	7.57	<.0001
Error	133	4.53680357	0.03411131		
Corrected Total	138	5.82751225			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.221485	3.282584	0.184692	5.626435

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.07134973	1.07134973	31.41	<.0001
SEX	1	0.13561461	0.13561461	3.98	0.0482
UCPDGR1	1	0.00125654	0.00125654	0.04	0.8481
TRTP	2	0.08248780	0.04124390	1.21	0.3017

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.96660296	0.96660296	28.34	<.0001
SEX	1	0.13185685	0.13185685	3.87	0.0514
UCPDGR1	1	0.00051013	0.00051013	0.01	0.9029
TRTP	2	0.08248780	0.04124390	1.21	0.3017

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.62150496	0.2528
<b>THSm2.2</b>	5.61540434	0.1360
<b>mCC</b>	5.67113466	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.621505	5.558286 5.684724
<b>THSm2.2</b>	5.615404	5.569611 5.661198
<b>mCC</b>	5.671135	5.612811 5.729458

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.049630	-0.135090	0.035831
<b>2 3</b>	-0.055730	-0.129226	0.017765

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.62150496	
THSm2.2	5.61540434	0.8764
mCC	5.67113466	0.2528

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.621505	5.558286 5.684724
THSm2.2	5.615404	5.569611 5.661198
mCC	5.671135	5.612811 5.729458

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.006101	-0.083505	0.071304
3 1	0.049630	-0.035831	0.135090

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 6/Discharge Confinement Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 6/Discharge Confinement Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5.58040357	1.11608071	135.34	<.0001
Error	151	1.24524727	0.00824667		
Corrected Total	156	6.82565084			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.817564	1.669223	0.090811	5.440328

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.43726032	5.43726032	659.33	<.0001
SEX	1	0.01839956	0.01839956	2.23	0.1373
UCPDGR1	1	0.00445230	0.00445230	0.54	0.4636
TRTP	2	0.12029140	0.06014570	7.29	0.0009

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.51485281	5.51485281	668.74	<.0001
SEX	1	0.01903055	0.01903055	2.31	0.1308
UCPDGR1	1	0.00403644	0.00403644	0.49	0.4852
TRTP	2	0.12029140	0.06014570	7.29	0.0009

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 6/Discharge Confinement Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.39809177	0.1270
<b>THSm2.2</b>	5.46522041	0.0410
<b>mCC</b>	5.42919394	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.398092	5.369140 5.427044
<b>THSm2.2</b>	5.465220	5.444529 5.485912
<b>mCC</b>	5.429194	5.401329 5.457059

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.031102	-0.071154	0.008949
<b>2 3</b>	0.036026	0.001496	0.070556

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 6/Discharge Confinement Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.39809177	
THSm2.2	5.46522041	0.0003
mCC	5.42919394	0.1270

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.398092	5.369140 5.427044
THSm2.2	5.465220	5.444529 5.485912
mCC	5.429194	5.401329 5.457059

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.067129	0.031577	0.102680
3 1	0.031102	-0.008949	0.071154

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	4.74519366	0.94903873	90.01	<.0001
Error	148	1.56039187	0.01054319		
Corrected Total	153	6.30558553			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.752538	1.882738	0.102680	5.453761

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.71205300	4.71205300	446.93	<.0001
SEX	1	0.00095187	0.00095187	0.09	0.7642
UCPDGR1	1	0.01541035	0.01541035	1.46	0.2286
TRTP	2	0.01677845	0.00838922	0.80	0.4532

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.63937040	4.63937040	440.03	<.0001
SEX	1	0.00070801	0.00070801	0.07	0.7959
UCPDGR1	1	0.01554804	0.01554804	1.47	0.2265
TRTP	2	0.01677845	0.00838922	0.80	0.4532

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 30 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.43613541	0.3500
<b>THSm2.2</b>	5.46129081	0.8592
<b>mCC</b>	5.45773312	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.436135	5.403427 5.468844
<b>THSm2.2</b>	5.461291	5.437571 5.485010
<b>mCC</b>	5.457733	5.425850 5.489616

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.021598	-0.067117	0.023922
<b>2 3</b>	0.003558	-0.035996	0.043111

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.43613541	
THSm2.2	5.46129081	0.2200
mCC	5.45773312	0.3500

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.436135	5.403427 5.468844
THSm2.2	5.461291	5.437571 5.485010
mCC	5.457733	5.425850 5.489616

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.025155	-0.015200	0.065511
3 1	0.021598	-0.023922	0.067117

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	3.71282920	0.74256584	33.56	<.0001
Error	144	3.18617494	0.02212621		
Corrected Total	149	6.89900414			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.538169	2.711015	0.148749	5.486831

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.65326582	3.65326582	165.11	<.0001
SEX	1	0.01318770	0.01318770	0.60	0.4414
UCPDGR1	1	0.01103216	0.01103216	0.50	0.4813
TRTP	2	0.03534352	0.01767176	0.80	0.4519

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.51829769	3.51829769	159.01	<.0001
SEX	1	0.01379768	0.01379768	0.62	0.4310
UCPDGR1	1	0.00934437	0.00934437	0.42	0.5168
TRTP	2	0.03534352	0.01767176	0.80	0.4519

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.47754028	0.8503
THSm2.2	5.50476388	0.2526
mCC	5.47119068	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.477540	5.429517 5.525564
THSm2.2	5.504764	5.469623 5.539905
mCC	5.471191	5.424981 5.517401

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	0.006350	-0.060035	0.072734
2 3	0.033573	-0.024203	0.091349

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.47754028	
THSm2.2	5.50476388	0.3671
mCC	5.47119068	0.8503

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.477540	5.429517 5.525564
THSm2.2	5.504764	5.469623 5.539905
mCC	5.471191	5.424981 5.517401

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.027224	-0.032252	0.086699
3 1	-0.006350	-0.072734	0.060035

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 91/Discharge Ambulatory Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 91/Discharge Ambulatory Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	3.35155261	0.67031052	35.99	<.0001
Error	142	2.64449351	0.01862319		
Corrected Total	147	5.99604612			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.558960	2.481500	0.136467	5.499368

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.04959532	3.04959532	163.75	<.0001
SEX	1	0.21030631	0.21030631	11.29	0.0010
UCPDGR1	1	0.00145261	0.00145261	0.08	0.7804
TRTP	2	0.09019838	0.04509919	2.42	0.0924

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.88851059	2.88851059	155.10	<.0001
SEX	1	0.20091387	0.20091387	10.79	0.0013
UCPDGR1	1	0.00223576	0.00223576	0.12	0.7295
TRTP	2	0.09019838	0.04509919	2.42	0.0924

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 91/Discharge Ambulatory Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.46668873	0.3087
THSm2.2	5.52738808	0.2822
mCC	5.49837505	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.466689	5.422006 5.511372
THSm2.2	5.527388	5.495009 5.559767
mCC	5.498375	5.455971 5.540779

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.031686	-0.093001	0.029628
2 3	0.029013	-0.024116	0.082142

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: PLAT, Day 91/Discharge Ambulatory Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.46668873	
THSm2.2	5.52738808	0.0311
mCC	5.49837505	0.3087

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.466689	5.422006 5.511372
THSm2.2	5.527388	5.495009 5.559767
mCC	5.498375	5.455971 5.540779

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.060699	0.005591	0.115807
3 1	0.031686	-0.029628	0.093001

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	414696.7168	82939.3434	46.93	<.0001
Error	148	261545.8286	1767.2015		
Corrected Total	153	676242.5455			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.613237	29.54754	42.03810	142.2727

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	410057.7177	410057.7177	232.04	<.0001
SEX	1	2037.6378	2037.6378	1.15	0.2847
UCPDGR1	1	1708.3215	1708.3215	0.97	0.3271
TRTP	2	893.0399	446.5200	0.25	0.7771

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	343609.4050	343609.4050	194.44	<.0001
SEX	1	1782.9200	1782.9200	1.01	0.3168
UCPDGR1	1	1643.7685	1643.7685	0.93	0.3364
TRTP	2	893.0399	446.5200	0.25	0.7771

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	145.748246	0.4836
THSm2.2	141.479145	0.7721
mCC	139.092460	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	145.748246	132.148674 159.347819
THSm2.2	141.479145	131.727734 151.230556
mCC	139.092460	126.030573 152.154348

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	6.655786	-12.070383	25.381956
2 3	2.386685	-13.865988	18.639357

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	145.748246	
THSm2.2	141.479145	0.6172
mCC	139.092460	0.4836

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	145.748246	132.148674 159.347819
THSm2.2	141.479145	131.727734 151.230556
mCC	139.092460	126.030573 152.154348

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-4.269102	-21.109670 12.571467
3	1	-6.655786	-25.381956 12.070383

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	326214.0845	65242.8169	35.16	<.0001
Error	144	267197.8888	1855.5409		
Corrected Total	149	593411.9733			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.549726	30.47542	43.07599	141.3467

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	314748.3766	314748.3766	169.63	<.0001
SEX	1	5677.1916	5677.1916	3.06	0.0824
UCPDGR1	1	264.7614	264.7614	0.14	0.7062
TRTP	2	5523.7549	2761.8775	1.49	0.2292

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	257961.6472	257961.6472	139.02	<.0001
SEX	1	5208.9863	5208.9863	2.81	0.0960
UCPDGR1	1	392.0257	392.0257	0.21	0.6465
TRTP	2	5523.7549	2761.8775	1.49	0.2292

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	139.776502	0.2962
THSm2.2	135.425310	0.0878
mCC	150.021487	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	139.776502	125.675080 153.877924
THSm2.2	135.425310	125.210336 145.640285
mCC	150.021487	136.632144 163.410829

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-10.244985	-29.560112 9.070143
2	3	-14.596176	-31.380881 2.188528

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	139.776502	
THSm2.2	135.425310	0.6243
mCC	150.021487	0.2962

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	139.776502	125.675080 153.877924
THSm2.2	135.425310	125.210336 145.640285
mCC	150.021487	136.632144 163.410829

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-4.351192	-21.872881 13.170498
3	1	10.244985	-9.070143 29.560112

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	435815.9073	87163.1815	59.45	<.0001
Error	142	208208.7954	1466.2591		
Corrected Total	147	644024.7027			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.676707	27.98884	38.29176	136.8108

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	410299.0161	410299.0161	279.83	<.0001
SEX	1	7866.3023	7866.3023	5.36	0.0220
UCPDGR1	1	9519.5594	9519.5594	6.49	0.0119
TRTP	2	8131.0295	4065.5147	2.77	0.0659

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	356507.6867	356507.6867	243.14	<.0001
SEX	1	5766.5410	5766.5410	3.93	0.0493
UCPDGR1	1	10076.4692	10076.4692	6.87	0.0097
TRTP	2	8131.0295	4065.5147	2.77	0.0659

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	148.766591	0.1569
THSm2.2	130.071673	0.4095
mCC	136.323239	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	148.766591	136.068876 161.464307
THSm2.2	130.071673	120.960918 139.182428
mCC	136.323239	124.421475 148.225002

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	12.443353	-4.843539	29.730245
2 3	-6.251566	-21.191669	8.688537

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: TRIG, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	148.766591	
THSm2.2	130.071673	0.0199
mCC	136.323239	0.1569

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	148.766591	136.068876	161.464307
THSm2.2	130.071673	120.960918	139.182428
mCC	136.323239	124.421475	148.225002

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-18.694919	-34.389932 -2.999905
3	1	-12.443353	-29.730245 4.843539

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	117404.8391	23480.9678	69.96	<.0001
Error	148	49670.6999	335.6128		
Corrected Total	153	167075.5390			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.702705	9.496886	18.31974	192.9026

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	115254.1537	115254.1537	343.41	<.0001
SEX	1	632.3655	632.3655	1.88	0.1719
UCPDGR1	1	22.2547	22.2547	0.07	0.7971
TRTP	2	1496.0651	748.0326	2.23	0.1113

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	114868.8367	114868.8367	342.27	<.0001
SEX	1	603.4916	603.4916	1.80	0.1820
UCPDGR1	1	28.6440	28.6440	0.09	0.7706
TRTP	2	1496.0651	748.0326	2.23	0.1113

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	197.828463	0.0366
THSm2.2	192.993111	0.2708
mCC	189.043528	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	197.828463	191.940807	203.716118
THSm2.2	192.993111	188.761277	197.224944
mCC	189.043528	183.334620	194.752436

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	8.784935	0.555127	17.014742
2 3	3.949583	-3.111664	11.010830

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	197.828463	
THSm2.2	192.993111	0.1897
mCC	189.043528	0.0366

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	197.828463	191.940807	203.716118
THSm2.2	192.993111	188.761277	197.224944
mCC	189.043528	183.334620	194.752436

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-4.835352	-12.087123 2.416419
3	1	-8.784935	-17.014742 -0.555127

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	121825.4980	24365.0996	54.87	<.0001
Error	144	63949.1953	444.0916		
Corrected Total	149	185774.6933			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.655770	10.83061	21.07348	194.5733

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	116793.7564	116793.7564	262.99	<.0001
SEX	1	2767.6429	2767.6429	6.23	0.0137
UCPDGR1	1	6.5883	6.5883	0.01	0.9032
TRTP	2	2257.5103	1128.7552	2.54	0.0823

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	118771.7944	118771.7944	267.45	<.0001
SEX	1	2666.3241	2666.3241	6.00	0.0155
UCPDGR1	1	7.3515	7.3515	0.02	0.8978
TRTP	2	2257.5103	1128.7552	2.54	0.0823

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	201.810046	0.0352
THSm2.2	193.786315	0.5918
mCC	191.562110	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	201.810046	194.941244 208.678849
THSm2.2	193.786315	188.804878 198.767753
mCC	191.562110	184.998953 198.125267

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	10.247936	0.721125	19.774748
2 3	2.224205	-5.956445	10.404856

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	201.810046	
THSm2.2	193.786315	0.0642
mCC	191.562110	0.0352

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	201.810046	194.941244 208.678849
THSm2.2	193.786315	188.804878 198.767753
mCC	191.562110	184.998953 198.125267

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-8.023731	-16.525547 0.478085
3	1	-10.247936	-19.774748 -0.721125

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	101019.0846	20203.8169	40.78	<.0001
Error	142	70358.8073	495.4846		
Corrected Total	147	171377.8919			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.589452	11.65253	22.25948	191.0270

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	97668.23757	97668.23757	197.12	<.0001
SEX	1	496.61627	496.61627	1.00	0.3185
UCPDGR1	1	561.32176	561.32176	1.13	0.2890
TRTP	2	2292.90898	1146.45449	2.31	0.1026

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	98078.58183	98078.58183	197.94	<.0001
SEX	1	442.36614	442.36614	0.89	0.3463
UCPDGR1	1	525.28072	525.28072	1.06	0.3049
TRTP	2	2292.90898	1146.45449	2.31	0.1026

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	197.913439	0.0463
THSm2.2	189.612398	0.6499
mCC	187.617179	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	197.913439	190.564337	205.262540
THSm2.2	189.612398	184.331228	194.893568
mCC	187.617179	180.677797	194.556560

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	10.296260	0.169991	20.422529
2 3	1.995219	-6.675487	10.665925

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: CHOL, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	197.913439	
THSm2.2	189.612398	0.0719
mCC	187.617179	0.0463

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	197.913439	190.564337 205.262540
THSm2.2	189.612398	184.331228 194.893568
mCC	187.617179	180.677797 194.556560

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-8.301041	-17.349323 0.747242
3	1	-10.296260	-20.422529 -0.169991

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HBA1C, Day 90 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HBA1C, Day 90 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.48677290	1.89735458	52.07	<.0001
Error	142	5.17430818	0.03643879		
Corrected Total	147	14.66108108			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.647072	3.682435	0.190889	5.183784

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	9.43376945	9.43376945	258.89	<.0001
SEX	1	0.00131420	0.00131420	0.04	0.8497
UCPDGR1	1	0.01078050	0.01078050	0.30	0.5873
TRTP	2	0.04090875	0.02045437	0.56	0.5717

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	9.32481320	9.32481320	255.90	<.0001
SEX	1	0.00109849	0.00109849	0.03	0.8624
UCPDGR1	1	0.00943357	0.00943357	0.26	0.6117
TRTP	2	0.04090875	0.02045437	0.56	0.5717

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HBA1C, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.15917124	0.6436
THSm2.2	5.19981012	0.5866
mCC	5.17924741	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.159171	5.096887 5.221456
THSm2.2	5.199810	5.154432 5.245188
mCC	5.179247	5.119848 5.238647

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.020076	-0.105664	0.065512
2 3	0.020563	-0.054012	0.095138

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HBA1C, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.15917124	
THSm2.2	5.19981012	0.2981
mCC	5.17924741	0.6436

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	5.159171	5.096887	5.221456
THSm2.2	5.199810	5.154432	5.245188
mCC	5.179247	5.119848	5.238647

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LS	LSMean(i)-LSMean(j)	
2	1	0.040639	-0.036288	0.117566
3	1	0.020076	-0.065512	0.105664

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: HDL, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: HDL, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	22509.65313	4501.93063	77.84	<.0001
Error	148	8559.75596	57.83619		
Corrected Total	153	31069.40909			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.724496	12.82071	7.605011	59.31818

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	22114.21391	22114.21391	382.36	<.0001
SEX	1	2.27590	2.27590	0.04	0.8430
UCPDGR1	1	13.01326	13.01326	0.23	0.6360
TRTP	2	380.15006	190.07503	3.29	0.0401

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	18849.34961	18849.34961	325.91	<.0001
SEX	1	0.51514	0.51514	0.01	0.9249
UCPDGR1	1	8.56203	8.56203	0.15	0.7010
TRTP	2	380.15006	190.07503	3.29	0.0401

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: HDL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	60.9309067	0.0170
THSm2.2	59.8972600	0.0408
mCC	56.8191525	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	60.930907	58.512287 63.349527
THSm2.2	59.897260	58.139373 61.655147
mCC	56.819152	54.445698 59.192606

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LS	LSMean(i)-LSMean(j)	
1	3	4.111754	0.747247	7.476261
2	3	3.078108	0.130522	6.025693

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: HDL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	60.9309067	
THSm2.2	59.8972600	0.4951
mCC	56.8191525	0.0170

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	60.930907	58.512287 63.349527
THSm2.2	59.897260	58.139373 61.655147
mCC	56.819152	54.445698 59.192606

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-1.033647	-4.020274 1.952981
3	1	-4.111754	-7.476261 -0.747247

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: HDL, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: HDL, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	26794.04866	5358.80973	79.92	<.0001
Error	144	9655.12468	67.04948		
Corrected Total	149	36449.17333			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.735107	13.59894	8.188374	60.21333

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	25764.22324	25764.22324	384.26	<.0001
SEX	1	233.43437	233.43437	3.48	0.0641
UCPDGR1	1	28.91293	28.91293	0.43	0.5124
TRTP	2	767.47811	383.73906	5.72	0.0041

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	20828.99786	20828.99786	310.65	<.0001
SEX	1	197.64718	197.64718	2.95	0.0881
UCPDGR1	1	20.46052	20.46052	0.31	0.5815
TRTP	2	767.47811	383.73906	5.72	0.0041

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: HDL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	62.7627153	0.0017
THSm2.2	61.2123297	0.0081
mCC	56.8628542	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	62.762715	60.126323 65.399108
THSm2.2	61.212330	59.277631 63.147028
mCC	56.862854	54.305270 59.420438

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LS	LSMean(i)-LSMean(j)	
1	3	5.899861	2.251966	9.547757
2	3	4.349476	1.150329	7.548622

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: HDL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	62.7627153	
THSm2.2	61.2123297	0.3497
mCC	56.8628542	0.0017

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	62.762715	60.126323 65.399108
THSm2.2	61.212330	59.277631 63.147028
mCC	56.862854	54.305270 59.420438

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-1.550386	-4.816453 1.715682
3	1	-5.899861	-9.547757 -2.251966

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HDL, Day 90 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HDL, Day 90 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	24917.55649	4983.51130	68.07	<.0001
Error	142	10395.71378	73.20925		
Corrected Total	147	35313.27027			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.705615	14.11732	8.556241	60.60811

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	23455.76226	23455.76226	320.39	<.0001
SEX	1	538.64614	538.64614	7.36	0.0075
UCPDGR1	1	58.61699	58.61699	0.80	0.3724
TRTP	2	864.53109	432.26555	5.90	0.0034

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	18084.04326	18084.04326	247.02	<.0001
SEX	1	475.34196	475.34196	6.49	0.0119
UCPDGR1	1	66.30703	66.30703	0.91	0.3429
TRTP	2	864.53109	432.26555	5.90	0.0034

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HDL, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.4529065	0.0013
THSm2.2	61.6197298	0.0084
mCC	57.0934912	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	63.452906	60.661685	66.244128
THSm2.2	61.619730	59.589495	63.649965
mCC	57.093491	54.420186	59.766797

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	6.359415	2.518531	10.200300
2 3	4.526239	1.176571	7.875907

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: HDL, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.4529065	
THSm2.2	61.6197298	0.2944
mCC	57.0934912	0.0013

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.452906	60.661685 66.244128
THSm2.2	61.619730	59.589495 63.649965
mCC	57.093491	54.420186 59.766797

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-1.833177	-5.276242	1.609888
3 1	-6.359415	-10.200300	-2.518531

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: LDL, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: LDL, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	108461.2423	21692.2485	88.74	<.0001
Error	148	36178.9720	244.4525		
Corrected Total	153	144640.2143			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.749869	13.70630	15.63498	114.0714

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	107654.8978	107654.8978	440.39	<.0001
SEX	1	65.7688	65.7688	0.27	0.6047
UCPDGR1	1	152.8000	152.8000	0.63	0.4304
TRTP	2	587.7756	293.8878	1.20	0.3034

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	106099.7809	106099.7809	434.03	<.0001
SEX	1	78.3734	78.3734	0.32	0.5721
UCPDGR1	1	164.8217	164.8217	0.67	0.4129
TRTP	2	587.7756	293.8878	1.20	0.3034

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: LDL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	116.972010	0.1267
THSm2.2	113.617202	0.4970
mCC	111.542080	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	116.972010	111.967842 121.976178
THSm2.2	113.617202	110.005532 117.228873
mCC	111.542080	106.676887 116.407273

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	5.429930	-1.556824 12.416683
2	3	2.075123	-3.947908 8.098153

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: LDL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	116.972010	
THSm2.2	113.617202	0.2843
mCC	111.542080	0.1267

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	116.972010	111.967842 121.976178
THSm2.2	113.617202	110.005532 117.228873
mCC	111.542080	106.676887 116.407273

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-3.354807	-9.523760 2.814146
3	1	-5.429930	-12.416683 1.556824

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: LDL, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: LDL, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	110516.2440	22103.2488	64.45	<.0001
Error	144	49386.5294	342.9620		
Corrected Total	149	159902.7733			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.691147	16.21839	18.51923	114.1867

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	108986.1911	108986.1911	317.78	<.0001
SEX	1	554.5058	554.5058	1.62	0.2056
UCPDGR1	1	14.4809	14.4809	0.04	0.8375
TRTP	2	961.0662	480.5331	1.40	0.2497

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	108706.6551	108706.6551	316.96	<.0001
SEX	1	511.0420	511.0420	1.49	0.2242
UCPDGR1	1	16.5537	16.5537	0.05	0.8264
TRTP	2	961.0662	480.5331	1.40	0.2497

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: LDL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	118.536218	0.1031
THSm2.2	113.878193	0.5368
mCC	111.626618	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	118.536218	112.526828 124.545608
THSm2.2	113.878193	109.500280 118.256106
mCC	111.626618	105.866663 117.386572

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	6.909600	-1.416350	15.235551
2 3	2.251575	-4.935964	9.439114

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: LDL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	118.536218	
THSm2.2	113.878193	0.2182
mCC	111.626618	0.1031

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	118.536218	112.526828 124.545608
THSm2.2	113.878193	109.500280 118.256106
mCC	111.626618	105.866663 117.386572

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-4.658025	-12.102205 2.786155
3	1	-6.909600	-15.235551 1.416350

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: LDL, Day 90 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: LDL, Day 90 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	97260.1945	19452.0389	53.55	<.0001
Error	142	51579.6163	363.2367		
Corrected Total	147	148839.8108			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.653456	16.88434	19.05877	112.8784

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	94791.36328	94791.36328	260.96	<.0001
SEX	1	750.40981	750.40981	2.07	0.1528
UCPDGR1	1	1002.66620	1002.66620	2.76	0.0988
TRTP	2	715.75526	357.87763	0.99	0.3759

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	93815.01322	93815.01322	258.28	<.0001
SEX	1	659.59225	659.59225	1.82	0.1800
UCPDGR1	1	984.05366	984.05366	2.71	0.1020
TRTP	2	715.75526	357.87763	0.99	0.3759

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: LDL, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	116.787863	0.2000
THSm2.2	112.048736	0.8162
mCC	111.174931	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	116.787863	110.524023 123.051704
THSm2.2	112.048736	107.526680 116.570792
mCC	111.174931	105.243208 117.106654

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	5.612933	-3.005590	14.231456
2 3	0.873805	-6.545412	8.293022

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: LDL, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	116.787863	
THSm2.2	112.048736	0.2270
mCC	111.174931	0.2000

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	116.787863	110.524023	123.051704
THSm2.2	112.048736	107.526680	116.570792
mCC	111.174931	105.243208	117.106654

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-4.739128	-12.459576 2.981321
3	1	-5.612933	-14.231456 3.005590

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: WBC, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: WBC, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	149.0018310	29.8003662	31.97	<.0001
Error	151	140.7649384	0.9322181		
Corrected Total	156	289.7667694			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.514213	15.82381	0.965514	6.101656

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	137.1118667	137.1118667	147.08	<.0001
SEX	1	0.1781836	0.1781836	0.19	0.6626
UCPDGR1	1	0.0456821	0.0456821	0.05	0.8251
TRTP	2	11.6660987	5.8330493	6.26	0.0025

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	145.2111830	145.2111830	155.77	<.0001
SEX	1	0.2697925	0.2697925	0.29	0.5914
UCPDGR1	1	0.0655034	0.0655034	0.07	0.7913
TRTP	2	11.6660987	5.8330493	6.26	0.0025

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: WBC, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.62403679	0.0033
THSm2.2	6.26093031	0.9329
mCC	6.27662124	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.624037	5.313905 5.934168
THSm2.2	6.260930	6.040725 6.481135
mCC	6.276621	5.979049 6.574193

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.652584	-1.084079	-0.221090
2 3	-0.015691	-0.383057	0.351675

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: WBC, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.62403679	
THSm2.2	6.26093031	0.0012
mCC	6.27662124	0.0033

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.624037	5.313905 5.934168
THSm2.2	6.260930	6.040725 6.481135
mCC	6.276621	5.979049 6.574193

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.636894	0.255955 1.017832
3	1	0.652584	0.221090 1.084079

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: WBC, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: WBC, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	107.0835683	21.4167137	20.02	<.0001
Error	148	158.3092402	1.0696570		
Corrected Total	153	265.3928084			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.403491	17.94164	1.034242	5.764481

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	104.5447164	104.5447164	97.74	<.0001
SEX	1	0.0197287	0.0197287	0.02	0.8922
UCPDGR1	1	0.8231063	0.8231063	0.77	0.3818
TRTP	2	1.6960168	0.8480084	0.79	0.4545

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	97.36500422	97.36500422	91.02	<.0001
SEX	1	0.00797228	0.00797228	0.01	0.9313
UCPDGR1	1	0.90221979	0.90221979	0.84	0.3599
TRTP	2	1.69601684	0.84800842	0.79	0.4545

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: WBC, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.73163488	0.3769
THSm2.2	5.69069049	0.2182
mCC	5.94007528	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.731635	5.399331 6.063939
THSm2.2	5.690690	5.451507 5.929874
mCC	5.940075	5.617668 6.262482

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.208440	-0.673187	0.256306
2 3	-0.249385	-0.647874	0.149104

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: WBC, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.73163488	
THSm2.2	5.69069049	0.8439
mCC	5.94007528	0.3769

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.731635	5.399331 6.063939
THSm2.2	5.690690	5.451507 5.929874
mCC	5.940075	5.617668 6.262482

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.040944	-0.451108 0.369219
3	1	0.208440	-0.256306 0.673187

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: WBC, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: WBC, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	92.6147657	18.5229531	11.18	<.0001
Error	144	238.6471437	1.6572718		
Corrected Total	149	331.2619093			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.279582	22.29977	1.287351	5.772933

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	90.66251996	90.66251996	54.71	<.0001
SEX	1	0.03594626	0.03594626	0.02	0.8831
UCPDGR1	1	0.00576466	0.00576466	0.00	0.9531
TRTP	2	1.91053477	0.95526738	0.58	0.5632

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	87.03992789	87.03992789	52.52	<.0001
SEX	1	0.02650632	0.02650632	0.02	0.8995
UCPDGR1	1	0.01642010	0.01642010	0.01	0.9208
TRTP	2	1.91053477	0.95526738	0.58	0.5632

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: WBC, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.73790212	0.4659
THSm2.2	5.68488576	0.2914
mCC	5.95268087	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.737902	5.320073 6.155731
THSm2.2	5.684886	5.380651 5.989120
mCC	5.952681	5.551457 6.353905

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.214779	-0.795504	0.365946
2 3	-0.267795	-0.767672	0.232082

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: WBC, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.73790212	
THSm2.2	5.68488576	0.8398
mCC	5.95268087	0.4659

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.737902	5.320073 6.155731
THSm2.2	5.684886	5.380651 5.989120
mCC	5.952681	5.551457 6.353905

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.053016	-0.570352	0.464319
3 1	0.214779	-0.365946	0.795504

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: WBC, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: WBC, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	84.8059895	16.9611979	11.91	<.0001
Error	142	202.2923861	1.4245943		
Corrected Total	147	287.0983757			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.295390	20.65134	1.193564	5.779595

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	74.97846943	74.97846943	52.63	<.0001
SEX	1	1.45332086	1.45332086	1.02	0.3142
UCPDGR1	1	0.06217456	0.06217456	0.04	0.8348
TRTP	2	8.31202470	4.15601235	2.92	0.0573

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	71.54179083	71.54179083	50.22	<.0001
SEX	1	1.22864669	1.22864669	0.86	0.3546
UCPDGR1	1	0.12025217	0.12025217	0.08	0.7718
TRTP	2	8.31202470	4.15601235	2.92	0.0573

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: WBC, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.73329634	0.1420
THSm2.2	5.57186448	0.0173
mCC	6.13797848	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.733296	5.340215 6.126378
THSm2.2	5.571864	5.288573 5.855156
mCC	6.137978	5.765924 6.510033

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.404682	-0.946505	0.137141
2 3	-0.566114	-1.030922	-0.101306

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: WBC, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.73329634	
THSm2.2	5.57186448	0.5113
mCC	6.13797848	0.1420

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.733296	5.340215 6.126378
THSm2.2	5.571864	5.288573 5.855156
mCC	6.137978	5.765924 6.510033

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.161432	-0.646031 0.323167
3	1	0.404682	-0.137141 0.946505

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL      Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	95.2604072	19.0520814	29.37	<.0001
Error	151	97.9465572	0.6486527		
Corrected Total	156	193.2069643			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.493049	23.26474	0.805390	3.461847

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	91.75738444	91.75738444	141.46	<.0001
SEX	1	0.08850520	0.08850520	0.14	0.7124
UCPDGR1	1	0.37739619	0.37739619	0.58	0.4468
TRTP	2	3.03712134	1.51856067	2.34	0.0997

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	93.56750319	93.56750319	144.25	<.0001
SEX	1	0.11732503	0.11732503	0.18	0.6712
UCPDGR1	1	0.36191166	0.36191166	0.56	0.4563
TRTP	2	3.03712134	1.51856067	2.34	0.0997

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.29342895	0.0366
THSm2.2	3.43296919	0.1170
mCC	3.67760708	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.293429	3.034931 3.551927
THSm2.2	3.432969	3.249397 3.616541
mCC	3.677607	3.429274 3.925940

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.384178	-0.744091	-0.024266
2 3	-0.244638	-0.551229	0.061953

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.29342895	
THSm2.2	3.43296919	0.3862
mCC	3.67760708	0.0366

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.293429	3.034931 3.551927
THSm2.2	3.432969	3.249397 3.616541
mCC	3.677607	3.429274 3.925940

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LSMean(i)-LSMean(j)		
2	1	0.139540	-0.177681	0.456762
3	1	0.384178	0.024266	0.744091

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	51.9130889	10.3826178	12.35	<.0001
Error	148	124.4338747	0.8407694		
Corrected Total	153	176.3469636			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.294380	29.23560	0.916935	3.136364

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	49.96316276	49.96316276	59.43	<.0001
SEX	1	0.68522450	0.68522450	0.81	0.3681
UCPDGR1	1	0.25570764	0.25570764	0.30	0.5821
TRTP	2	1.00899401	0.50449701	0.60	0.5501

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	47.12121041	47.12121041	56.05	<.0001
SEX	1	0.72848369	0.72848369	0.87	0.3535
UCPDGR1	1	0.29198589	0.29198589	0.35	0.5566
TRTP	2	1.00899401	0.50449701	0.60	0.5501

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.17356353	0.6648
THSm2.2	3.07151875	0.2834
mCC	3.26406463	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.173564	2.879239 3.467888
THSm2.2	3.071519	2.859603 3.283435
mCC	3.264065	2.978140 3.549989

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.090501	-0.502380	0.321378
2 3	-0.192546	-0.545966	0.160874

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.17356353	
THSm2.2	3.07151875	0.5793
mCC	3.26406463	0.6648

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.173564	2.879239 3.467888
THSm2.2	3.071519	2.859603 3.283435
mCC	3.264065	2.978140 3.549989

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	-0.102045	-0.465003 0.260913
3	1	0.090501	-0.321378 0.502380

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	46.3474798	9.2694960	7.32	<.0001
Error	144	182.3252535	1.2661476		
Corrected Total	149	228.6727333			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.202680	35.51122	1.125232	3.168667

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	44.10216559	44.10216559	34.83	<.0001
SEX	1	0.02612342	0.02612342	0.02	0.8860
UCPDGR1	1	0.14397399	0.14397399	0.11	0.7364
TRTP	2	2.07521683	1.03760842	0.82	0.4427

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	42.73022182	42.73022182	33.75	<.0001
SEX	1	0.01383625	0.01383625	0.01	0.9169
UCPDGR1	1	0.18000217	0.18000217	0.14	0.7067
TRTP	2	2.07521683	1.03760842	0.82	0.4427

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.09853846	0.3070
THSm2.2	3.09554358	0.2303
mCC	3.36188631	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.098538	2.733326 3.463750
THSm2.2	3.095544	2.829686 3.361401
mCC	3.361886	3.011119 3.712654

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.263348	-0.771079	0.244383
2 3	-0.266343	-0.703338	0.170653

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.09853846	
THSm2.2	3.09554358	0.9896
mCC	3.36188631	0.3070

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.098538	2.733326 3.463750
THSm2.2	3.095544	2.829686 3.361401
mCC	3.361886	3.011119 3.712654

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.002995	-0.455007 0.449017
3	1	0.263348	-0.244383 0.771079

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	43.3229072	8.6645814	8.43	<.0001
Error	142	145.9369225	1.0277248		
Corrected Total	147	189.2598297			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.228907	32.45460	1.013768	3.123649

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	35.70154683	35.70154683	34.74	<.0001
SEX	1	0.76651150	0.76651150	0.75	0.3893
UCPDGR1	1	0.72752454	0.72752454	0.71	0.4016
TRTP	2	6.12732432	3.06366216	2.98	0.0539

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	34.32342908	34.32342908	33.40	<.0001
SEX	1	0.58478702	0.58478702	0.57	0.4519
UCPDGR1	1	0.83737670	0.83737670	0.81	0.3682
TRTP	2	6.12732432	3.06366216	2.98	0.0539

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.03617106	0.0795
THSm2.2	2.97273968	0.0188
mCC	3.44779841	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.036171	2.702249 3.370093
THSm2.2	2.972740	2.732243 3.213236
mCC	3.447798	3.131602 3.763994

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.411627	-0.872250	0.048995
2 3	-0.475059	-0.870063	-0.080054

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: NEUT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.03617106	
THSm2.2	2.97273968	0.7609
mCC	3.44779841	0.0795

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.036171	2.702249 3.370093
THSm2.2	2.972740	2.732243 3.213236
mCC	3.447798	3.131602 3.763994

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.063431	-0.474678	0.347815
3 1	0.411627	-0.048995	0.872250

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: LYM, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: LYM, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	19.66919631	3.93383926	26.05	<.0001
Error	151	22.80375528	0.15101825		
Corrected Total	156	42.47295159			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.463099	18.02419	0.388611	2.156051

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	14.81278052	14.81278052	98.09	<.0001
SEX	1	0.07136157	0.07136157	0.47	0.4929
UCPDGR1	1	0.12551817	0.12551817	0.83	0.3634
TRTP	2	4.65953605	2.32976803	15.43	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	15.48621344	15.48621344	102.55	<.0001
SEX	1	0.07626428	0.07626428	0.51	0.4784
UCPDGR1	1	0.11140986	0.11140986	0.74	0.3918
TRTP	2	4.65953605	2.32976803	15.43	<.0001

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: LYM, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	1.92076217	0.0704
THSm2.2	2.32864001	0.0011
mCC	2.07893105	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	1.920762	1.797275 2.044249
THSm2.2	2.328640	2.240149 2.417131
mCC	2.078931	1.959511 2.198351

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.158169	-0.329642	0.013304
2 3	0.249709	0.101890	0.397528

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: LYM, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	1.92076217	
THSm2.2	2.32864001	<.0001
mCC	2.07893105	0.0704

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	1.920762	1.797275 2.044249
THSm2.2	2.328640	2.240149 2.417131
mCC	2.078931	1.959511 2.198351

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.407878	0.256321 0.559435
3	1	0.158169	-0.013304 0.329642

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: LYM, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: LYM, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	19.35622465	3.87124493	24.20	<.0001
Error	148	23.67952924	0.15999682		
Corrected Total	153	43.03575390			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.449771	18.77057	0.399996	2.130974

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	18.41590068	18.41590068	115.10	<.0001
SEX	1	0.68049259	0.68049259	4.25	0.0409
UCPDGR1	1	0.22410015	0.22410015	1.40	0.2385
TRTP	2	0.03573123	0.01786561	0.11	0.8944

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	17.89359396	17.89359396	111.84	<.0001
SEX	1	0.65008155	0.65008155	4.06	0.0456
UCPDGR1	1	0.22545630	0.22545630	1.41	0.2371
TRTP	2	0.03573123	0.01786561	0.11	0.8944

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: LYM, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.09754863	0.7244
THSm2.2	2.13410030	0.9510
mCC	2.12930029	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.097549	1.970396 2.224701
THSm2.2	2.134100	2.041764 2.226437
mCC	2.129300	2.004892 2.253709

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.031752	-0.209393	0.145890
2 3	0.004800	-0.149325	0.158925

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: LYM, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.09754863	
THSm2.2	2.13410030	0.6456
mCC	2.12930029	0.7244

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.097549	1.970396 2.224701
THSm2.2	2.134100	2.041764 2.226437
mCC	2.129300	2.004892 2.253709

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.036552	-0.120205	0.193308
3 1	0.031752	-0.145890	0.209393

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: LYM, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: LYM, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	14.17473889	2.83494778	15.84	<.0001
Error	144	25.76541844	0.17892652		
Corrected Total	149	39.94015733			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.354899	20.05232	0.422997	2.109467

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	13.81272489	13.81272489	77.20	<.0001
SEX	1	0.05145590	0.05145590	0.29	0.5926
UCPDGR1	1	0.00025801	0.00025801	0.00	0.9698
TRTP	2	0.31030009	0.15515004	0.87	0.4223

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	13.43975685	13.43975685	75.11	<.0001
SEX	1	0.04519230	0.04519230	0.25	0.6160
UCPDGR1	1	0.00000210	0.00000210	0.00	0.9973
TRTP	2	0.31030009	0.15515004	0.87	0.4223

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: LYM, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.16900627	0.1965
THSm2.2	2.12029264	0.3664
mCC	2.04494373	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.169006	2.032939 2.305073
THSm2.2	2.120293	2.020484 2.220102
mCC	2.044944	1.913309 2.176579

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
1	3	0.124063	-0.064923 0.313048
2	3	0.075349	-0.089011 0.239708

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: LYM, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.16900627	
THSm2.2	2.12029264	0.5680
mCC	2.04494373	0.1965

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.169006	2.032939 2.305073
THSm2.2	2.120293	2.020484 2.220102
mCC	2.044944	1.913309 2.176579

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.048714	-0.216970	0.119542
3 1	-0.124063	-0.313048	0.064923

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: LYM, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: LYM, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	17.85600778	3.57120156	21.33	<.0001
Error	142	23.77859965	0.16745493		
Corrected Total	147	41.63460743			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.428874	19.04931	0.409213	2.148176

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	17.38966663	17.38966663	103.85	<.0001
SEX	1	0.00758554	0.00758554	0.05	0.8318
UCPDGR1	1	0.11966348	0.11966348	0.71	0.3993
TRTP	2	0.33909213	0.16954607	1.01	0.3659

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	16.69869778	16.69869778	99.72	<.0001
SEX	1	0.01244046	0.01244046	0.07	0.7856
UCPDGR1	1	0.12093230	0.12093230	0.72	0.3969
TRTP	2	0.33909213	0.16954607	1.01	0.3659

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: LYM, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.22595461	0.1837
THSm2.2	2.12753761	0.7488
mCC	2.10167867	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.225955	2.092358 2.359551
THSm2.2	2.127538	2.030502 2.224573
mCC	2.101679	1.974381 2.228976

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	0.124276	-0.059636	0.308188
2 3	0.025859	-0.133458	0.185176

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: LYM, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.22595461	
THSm2.2	2.12753761	0.2394
mCC	2.10167867	0.1837

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.225955	2.092358 2.359551
THSm2.2	2.127538	2.030502 2.224573
mCC	2.101679	1.974381 2.228976

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.098417	-0.263107 0.066273
3	1	-0.124276	-0.308188 0.059636

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: MONO, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: MONO, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.42369040	0.08473808	12.54	<.0001
Error	151	1.02005737	0.00675535		
Corrected Total	156	1.44374777			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.293466	27.21209	0.082191	0.302038

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.29847656	0.29847656	44.18	<.0001
SEX	1	0.02831340	0.02831340	4.19	0.0424
UCPDGR1	1	0.00632826	0.00632826	0.94	0.3347
TRTP	2	0.09057217	0.04528609	6.70	0.0016

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.27929116	0.27929116	41.34	<.0001
SEX	1	0.02263438	0.02263438	3.35	0.0692
UCPDGR1	1	0.00605397	0.00605397	0.90	0.3453
TRTP	2	0.09057217	0.04528609	6.70	0.0016

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: MONO, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.25817994	0.0045
THSm2.2	0.31611118	0.7704
mCC	0.31148814	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.258180	0.231872	0.284488
THSm2.2	0.316111	0.297317	0.334906
mCC	0.311488	0.286210	0.336766

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-0.053308	-0.089832 -0.016784
2	3	0.004623	-0.026624 0.035870

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: MONO, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.25817994	
THSm2.2	0.31611118	0.0006
mCC	0.31148814	0.0045

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.258180	0.231872	0.284488
THSm2.2	0.316111	0.297317	0.334906
mCC	0.311488	0.286210	0.336766

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.057931	0.025500 0.090363
3	1	0.053308	0.016784 0.089832

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: MONO, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: MONO, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.59471091	0.11894218	17.70	<.0001
Error	148	0.99438000	0.00671878		
Corrected Total	153	1.58909091			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.374246	27.48933	0.081968	0.298182

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.55667671	0.55667671	82.85	<.0001
SEX	1	0.02085960	0.02085960	3.10	0.0801
UCPDGR1	1	0.00252590	0.00252590	0.38	0.5407
TRTP	2	0.01464870	0.00732435	1.09	0.3389

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.47457994	0.47457994	70.63	<.0001
SEX	1	0.01911419	0.01911419	2.84	0.0938
UCPDGR1	1	0.00292130	0.00292130	0.43	0.5107
TRTP	2	0.01464870	0.00732435	1.09	0.3389

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: MONO, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.28615863	0.1619
THSm2.2	0.29376358	0.2495
mCC	0.31223159	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.286159	0.259918	0.312399
THSm2.2	0.293764	0.274767	0.312760
mCC	0.312232	0.286717	0.337747

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-0.026073	-0.062726 0.010580
2	3	-0.018468	-0.050032 0.013096

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: MONO, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.28615863	
THSm2.2	0.29376358	0.6443
mCC	0.31223159	0.1619

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.286159	0.259918	0.312399
THSm2.2	0.293764	0.274767	0.312760
mCC	0.312232	0.286717	0.337747

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LS	LSMean(i)-LSMean(j)	
2	1	0.007605	-0.024882	0.040092
3	1	0.026073	-0.010580	0.062726

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: MONO, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: MONO, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.41080836	0.08216167	11.05	<.0001
Error	144	1.07050897	0.00743409		
Corrected Total	149	1.48131733			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.277326	29.95177	0.086221	0.287867

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.32442267	0.32442267	43.64	<.0001
SEX	1	0.02762950	0.02762950	3.72	0.0558
UCPDGR1	1	0.00002148	0.00002148	0.00	0.9572
TRTP	2	0.05873472	0.02936736	3.95	0.0214

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.28646988	0.28646988	38.53	<.0001
SEX	1	0.02383069	0.02383069	3.21	0.0755
UCPDGR1	1	0.00013080	0.00013080	0.02	0.8947
TRTP	2	0.05873472	0.02936736	3.95	0.0214

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: MONO, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.26089027	0.0063
THSm2.2	0.28262239	0.0571
mCC	0.31509364	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.260890	0.233024	0.288757
THSm2.2	0.282622	0.262205	0.303040
mCC	0.315094	0.288264	0.341923

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.054203	-0.092883	-0.015524
2 3	-0.032471	-0.065935	0.000992

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: MONO, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.26089027	
THSm2.2	0.28262239	0.2164
mCC	0.31509364	0.0063

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.260890	0.233024	0.288757
THSm2.2	0.282622	0.262205	0.303040
mCC	0.315094	0.288264	0.341923

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LSMean(i)-LSMean(j)		
2	1	0.021732	-0.012867	0.056332
3	1	0.054203	0.015524	0.092883

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: MONO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: MONO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.51070070	0.10214014	11.05	<.0001
Error	142	1.31208511	0.00924004		
Corrected Total	147	1.82278581			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.280176	31.09621	0.096125	0.309122

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.38148009	0.38148009	41.29	<.0001
SEX	1	0.02007888	0.02007888	2.17	0.1427
UCPDGR1	1	0.00161596	0.00161596	0.17	0.6764
TRTP	2	0.10752577	0.05376289	5.82	0.0037

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.35425742	0.35425742	38.34	<.0001
SEX	1	0.01603478	0.01603478	1.74	0.1898
UCPDGR1	1	0.00224742	0.00224742	0.24	0.6226
TRTP	2	0.10752577	0.05376289	5.82	0.0037

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: MONO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.28076338	0.0019
THSm2.2	0.29745896	0.0059
mCC	0.35033020	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.280763	0.249206 0.312320
THSm2.2	0.297459	0.274617 0.320301
mCC	0.350330	0.320389 0.380272

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.069567	-0.113047	-0.026087
2 3	-0.052871	-0.090286	-0.015456

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: MONO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.28076338	
THSm2.2	0.29745896	0.3987
mCC	0.35033020	0.0019

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.280763	0.249206 0.312320
THSm2.2	0.297459	0.274617 0.320301
mCC	0.350330	0.320389 0.380272

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.016696	-0.022289 0.055681
3	1	0.069567	0.026087 0.113047

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: EOS, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: EOS, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.47068370	0.09413674	57.38	<.0001
Error	151	0.24774942	0.00164072		
Corrected Total	156	0.71843312			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.655153	31.52910	0.040506	0.128471

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.44778540	0.44778540	272.92	<.0001
SEX	1	0.01239498	0.01239498	7.55	0.0067
UCPDGR1	1	0.00001844	0.00001844	0.01	0.9157
TRTP	2	0.01048488	0.00524244	3.20	0.0437

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.39900997	0.39900997	243.19	<.0001
SEX	1	0.01083550	0.01083550	6.60	0.0111
UCPDGR1	1	0.00007193	0.00007193	0.04	0.8344
TRTP	2	0.01048488	0.00524244	3.20	0.0437

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: EOS, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.12484011	0.0806
THSm2.2	0.12091591	0.0136
mCC	0.14096546	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.124840	0.111987	0.137693
THSm2.2	0.120916	0.111642	0.130190
mCC	0.140965	0.128220	0.153711

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.016125	-0.034238	0.001987
2 3	-0.020050	-0.035912	-0.004187

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: EOS, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.12484011	
THSm2.2	0.12091591	0.6237
mCC	0.14096546	0.0806

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.124840	0.111987	0.137693
THSm2.2	0.120916	0.111642	0.130190
mCC	0.140965	0.128220	0.153711

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.003924	-0.019696 0.011848
3	1	0.016125	-0.001987 0.034238

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: EOS, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: EOS, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.57517108	0.11503422	37.98	<.0001
Error	148	0.44821853	0.00302850		
Corrected Total	153	1.02338961			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.562026	36.62448	0.055032	0.150260

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.53441726	0.53441726	176.46	<.0001
SEX	1	0.01269663	0.01269663	4.19	0.0424
UCPDGR1	1	0.00088150	0.00088150	0.29	0.5903
TRTP	2	0.02717570	0.01358785	4.49	0.0128

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.45586138	0.45586138	150.52	<.0001
SEX	1	0.01079867	0.01079867	3.57	0.0609
UCPDGR1	1	0.00133375	0.00133375	0.44	0.5080
TRTP	2	0.02717570	0.01358785	4.49	0.0128

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: EOS, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.15685735	0.4374
THSm2.2	0.13548473	0.0057
mCC	0.16663341	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.156857	0.139393 0.174322
THSm2.2	0.135485	0.122693 0.148277
mCC	0.166633	0.149051 0.184216

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.009776	-0.034583	0.015030
2 3	-0.031149	-0.053083	-0.009214

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: EOS, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.15685735	
THSm2.2	0.13548473	0.0518
mCC	0.16663341	0.4374

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.156857	0.139393 0.174322
THSm2.2	0.135485	0.122693 0.148277
mCC	0.166633	0.149051 0.184216

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.021373	-0.042910 0.000165
3	1	0.009776	-0.015030 0.034583

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: EOS, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: EOS, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.63365758	0.12673152	5.59	<.0001
Error	144	3.26184642	0.02265171		
Corrected Total	149	3.89550400			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.162664	94.53823	0.150505	0.159200

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.46756382	0.46756382	20.64	<.0001
SEX	1	0.04710760	0.04710760	2.08	0.1514
UCPDGR1	1	0.02753886	0.02753886	1.22	0.2720
TRTP	2	0.09144729	0.04572365	2.02	0.1366

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.43210973	0.43210973	19.08	<.0001
SEX	1	0.05099500	0.05099500	2.25	0.1357
UCPDGR1	1	0.02495279	0.02495279	1.10	0.2957
TRTP	2	0.09144729	0.04572365	2.02	0.1366

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: EOS, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.19310670	0.3580
THSm2.2	0.13263178	0.3551
mCC	0.16117256	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.193107	0.144724 0.241489
THSm2.2	0.132632	0.096788 0.168476
mCC	0.161173	0.112899 0.209446

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	0.031934	-0.036518	0.100386
2 3	-0.028541	-0.089344	0.032263

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: EOS, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.19310670	
THSm2.2	0.13263178	0.0478
mCC	0.16117256	0.3580

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.193107	0.144724	0.241489
THSm2.2	0.132632	0.096788	0.168476
mCC	0.161173	0.112899	0.209446

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.060475	-0.120363 -0.000587
3	1	-0.031934	-0.100386 0.036518

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: EOS, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: EOS, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.65525221	0.13105044	18.19	<.0001
Error	142	1.02325049	0.00720599		
Corrected Total	147	1.67850270			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.390379	56.28781	0.084888	0.150811

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.59168859	0.59168859	82.11	<.0001
SEX	1	0.01528634	0.01528634	2.12	0.1475
UCPDGR1	1	0.00611663	0.00611663	0.85	0.3584
TRTP	2	0.04216066	0.02108033	2.93	0.0569

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.50125826	0.50125826	69.56	<.0001
SEX	1	0.01331009	0.01331009	1.85	0.1763
UCPDGR1	1	0.00451623	0.00451623	0.63	0.4299
TRTP	2	0.04216066	0.02108033	2.93	0.0569

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: EOS, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.15954448	0.5888
THSm2.2	0.13127841	0.0262
mCC	0.17018041	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.159544	0.131845 0.187244
THSm2.2	0.131278	0.111005 0.151552
mCC	0.170180	0.143015 0.197346

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.010636	-0.049441	0.028169
2 3	-0.038902	-0.073129	-0.004675

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: EOS, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.15954448	
THSm2.2	0.13127841	0.1040
mCC	0.17018041	0.5888

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.159544	0.131845 0.187244
THSm2.2	0.131278	0.111005 0.151552
mCC	0.170180	0.143015 0.197346

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.028266	-0.062411 0.005878
3	1	0.010636	-0.028169 0.049441

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: BASO, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: BASO, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.03156457	0.00631291	26.39	<.0001
Error	151	0.03612842	0.00023926		
Corrected Total	156	0.06769299			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.466290	29.18854	0.015468	0.052994

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.02688576	0.02688576	112.37	<.0001
SEX	1	0.00108243	0.00108243	4.52	0.0350
UCPDGR1	1	0.00044733	0.00044733	1.87	0.1735
TRTP	2	0.00314905	0.00157453	6.58	0.0018

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.02637450	0.02637450	110.23	<.0001
SEX	1	0.00116555	0.00116555	4.87	0.0288
UCPDGR1	1	0.00046741	0.00046741	1.95	0.1643
TRTP	2	0.00314905	0.00157453	6.58	0.0018

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: BASO, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04575090	0.0073
THSm2.2	0.05652645	0.6410
mCC	0.05513267	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.045751	0.040845 0.050657
THSm2.2	0.056526	0.053002 0.060051
mCC	0.055133	0.050379 0.059886

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-0.009382	-0.016193 -0.002571
2	3	0.001394	-0.004500 0.007288

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT1FL=Y and ANL01FL=Y

Paramcd: BASO, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04575090	
THSm2.2	0.05652645	0.0005
mCC	0.05513267	0.0073

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.045751	0.040845 0.050657
THSm2.2	0.056526	0.053002 0.060051
mCC	0.055133	0.050379 0.059886

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	0.010776	0.004756 0.016795
3	1	0.009382	0.002571 0.016193

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: BASO, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: BASO, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.01372630	0.00274526	8.08	<.0001
Error	148	0.05027370	0.00033969		
Corrected Total	153	0.06400000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.214473	36.86121	0.018431	0.050000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.01268459	0.01268459	37.34	<.0001
SEX	1	0.00025304	0.00025304	0.74	0.3895
UCPDGR1	1	0.00059714	0.00059714	1.76	0.1869
TRTP	2	0.00019153	0.00009577	0.28	0.7547

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.01222353	0.01222353	35.98	<.0001
SEX	1	0.00027739	0.00027739	0.82	0.3676
UCPDGR1	1	0.00060574	0.00060574	1.78	0.1838
TRTP	2	0.00019153	0.00009577	0.28	0.7547

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: BASO, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04838456	0.5479
THSm2.2	0.05098831	0.9745
mCC	0.05087295	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.048385	0.042539	0.054230
THSm2.2	0.050988	0.046731	0.055246
mCC	0.050873	0.045140	0.056606

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.002488	-0.010653	0.005676
2 3	0.000115	-0.007001	0.007232

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT2FL=Y and ANL01FL=Y

Paramcd: BASO, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04838456	
THSm2.2	0.05098831	0.4764
mCC	0.05087295	0.5479

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.048385	0.042539	0.054230
THSm2.2	0.050988	0.046731	0.055246
mCC	0.050873	0.045140	0.056606

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LSMean(i)-LSMean(j)		
2	1	0.002604	-0.004604	0.009811
3	1	0.002488	-0.005676	0.010653

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: BASO, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: BASO, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.01319442	0.00263888	7.06	<.0001
Error	144	0.05381958	0.00037375		
Corrected Total	149	0.06701400			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.196890	40.10900	0.019333	0.048200

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.01304049	0.01304049	34.89	<.0001
SEX	1	0.00009370	0.00009370	0.25	0.6173
UCPDGR1	1	0.00000587	0.00000587	0.02	0.9005
TRTP	2	0.00005436	0.00002718	0.07	0.9299

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.01250301	0.01250301	33.45	<.0001
SEX	1	0.00009315	0.00009315	0.25	0.6184
UCPDGR1	1	0.00000424	0.00000424	0.01	0.9153
TRTP	2	0.00005436	0.00002718	0.07	0.9299

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: BASO, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04763550	0.7455
THSm2.2	0.04774065	0.7298
mCC	0.04905643	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.047636	0.041417	0.053854
THSm2.2	0.047741	0.043178	0.052303
mCC	0.049056	0.043041	0.055072

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.001421	-0.010056	0.007214
2 3	-0.001316	-0.008831	0.006199

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT3FL=Y and ANL01FL=Y

Paramcd: BASO, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04763550	
THSm2.2	0.04774065	0.9785
mCC	0.04905643	0.7455

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.047636	0.041417	0.053854
THSm2.2	0.047741	0.043178	0.052303
mCC	0.049056	0.043041	0.055072

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LS	LSMean(i)-LSMean(j)	
2	1	0.000105	-0.007582	0.007792
3	1	0.001421	-0.007214	0.010056

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: BASO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: BASO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.00767237	0.00153447	2.48	0.0347
Error	142	0.08789182	0.00061896		
Corrected Total	147	0.09556419			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.080285	52.08017	0.024879	0.047770

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.00624747	0.00624747	10.09	0.0018
SEX	1	0.00000470	0.00000470	0.01	0.9307
UCPDGR1	1	0.00044072	0.00044072	0.71	0.4002
TRTP	2	0.00097947	0.00048974	0.79	0.4553

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.00610130	0.00610130	9.86	0.0021
SEX	1	0.00000353	0.00000353	0.01	0.9399
UCPDGR1	1	0.00038392	0.00038392	0.62	0.4323
TRTP	2	0.00097947	0.00048974	0.79	0.4553

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: BASO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04884231	0.6974
THSm2.2	0.04509463	0.2271
mCC	0.05105198	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.048842	0.040711	0.056973
THSm2.2	0.045095	0.039195	0.050994
mCC	0.051052	0.043299	0.058805

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.002210	-0.013422	0.009003
2 3	-0.005957	-0.015665	0.003750

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.adlb: PPROT4FL=Y and ANL01FL=Y

Paramcd: BASO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04884231	
THSm2.2	0.04509463	0.4604
mCC	0.05105198	0.6974

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.048842	0.040711	0.056973
THSm2.2	0.045095	0.039195	0.050994
mCC	0.051052	0.043299	0.058805

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.003748	-0.013757 0.006261
3	1	0.002210	-0.009003 0.013422

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT1FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT1FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	6667.64806	1333.52961	23.27	<.0001
Error	151	8651.54939	57.29503		
Corrected Total	156	15319.19745			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.435248	7.023153	7.569348	107.7771

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	6310.352253	6310.352253	110.14	<.0001
SEX	1	81.349337	81.349337	1.42	0.2353
UCPDGR1	1	42.771618	42.771618	0.75	0.3890
TRTP	2	233.174850	116.587425	2.03	0.1343

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	4098.162790	4098.162790	71.53	<.0001
SEX	1	103.040018	103.040018	1.80	0.1819
UCPDGR1	1	46.076710	46.076710	0.80	0.3713
TRTP	2	233.174850	116.587425	2.03	0.1343

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT1FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	105.597366	0.2224
THSm2.2	108.705218	0.5050
mCC	107.731223	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	105.597366	103.105708	108.089023
THSm2.2	108.705218	106.979177	110.431259
mCC	107.731223	105.399620	110.062826

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-2.133857	-5.574602	1.306888
2 3	0.973995	-1.905700	3.853691

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT1FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	105.597366	
THSm2.2	108.705218	0.0454
mCC	107.731223	0.2224

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	105.597366	103.105708	108.089023
THSm2.2	108.705218	106.979177	110.431259
mCC	107.731223	105.399620	110.062826

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	3.107852	0.063977 6.151728
3	1	2.133857	-1.306888 5.574602

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT2FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT2FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8882.65502	1776.53100	27.55	<.0001
Error	148	9542.00082	64.47298		
Corrected Total	153	18424.65584			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.482107	7.443231	8.029507	107.8766

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	7574.331622	7574.331622	117.48	<.0001
SEX	1	1208.112549	1208.112549	18.74	<.0001
UCPDGR1	1	19.943497	19.943497	0.31	0.5789
TRTP	2	80.267352	40.133676	0.62	0.5380

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	4142.452571	4142.452571	64.25	<.0001
SEX	1	1241.825698	1241.825698	19.26	<.0001
UCPDGR1	1	23.795670	23.795670	0.37	0.5444
TRTP	2	80.267352	40.133676	0.62	0.5380

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT2FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	106.311516	0.2687
THSm2.2	107.558363	0.6050
mCC	108.369754	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	106.311516	103.672287	108.950744
THSm2.2	107.558363	105.701561	109.415164
mCC	108.369754	105.868137	110.871370

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-2.058238	-5.721755	1.605279
2 3	-0.811391	-3.904665	2.281883

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT2FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	106.311516	
THSm2.2	107.558363	0.4485
mCC	108.369754	0.2687

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	106.311516	103.672287	108.950744
THSm2.2	107.558363	105.701561	109.415164
mCC	108.369754	105.868137	110.871370

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LS	LSMean(i)-LSMean(j)	
2	1	1.246847	-1.995370	4.489064
3	1	2.058238	-1.605279	5.721755

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT3FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT3FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7739.80665	1547.96133	26.30	<.0001
Error	144	8475.26669	58.85602		
Corrected Total	149	16215.07333			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.477322	7.132989	7.671768	107.5533

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	5851.921437	5851.921437	99.43	<.0001
SEX	1	1692.621241	1692.621241	28.76	<.0001
UCPDGR1	1	79.046226	79.046226	1.34	0.2484
TRTP	2	116.217742	58.108871	0.99	0.3751

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	2672.010863	2672.010863	45.40	<.0001
SEX	1	1734.481173	1734.481173	29.47	<.0001
UCPDGR1	1	84.147771	84.147771	1.43	0.2338
TRTP	2	116.217742	58.108871	0.99	0.3751

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT3FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	105.548885	0.1777
THSm2.2	107.333622	0.6765
mCC	107.963601	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	105.548885	102.992228 108.105542
THSm2.2	107.333622	105.519469 109.147776
mCC	107.963601	105.573686 110.353515

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-2.414716	-5.938139	1.108707
2 3	-0.629978	-3.608083	2.348126

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT3FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	105.548885	
THSm2.2	107.333622	0.2649
mCC	107.963601	0.1777

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	105.548885	102.992228 108.105542
THSm2.2	107.333622	105.519469 109.147776
mCC	107.963601	105.573686 110.353515

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	1.784738	-1.367399 4.936874
3	1	2.414716	-1.108707 5.938139

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8694.92270	1738.98454	25.69	<.0001
Error	142	9610.40163	67.67888		
Corrected Total	147	18305.32432			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.474994	7.905170	8.226718	104.0676

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	6659.349463	6659.349463	98.40	<.0001
SEX	1	2010.862228	2010.862228	29.71	<.0001
UCPDGR1	1	8.074388	8.074388	0.12	0.7303
TRTP	2	16.636620	8.318310	0.12	0.8844

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	3522.358588	3522.358588	52.05	<.0001
SEX	1	1972.415019	1972.415019	29.14	<.0001
UCPDGR1	1	7.455969	7.455969	0.11	0.7404
TRTP	2	16.636620	8.318310	0.12	0.8844

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	103.921641	0.9316
THSm2.2	103.165295	0.7157
mCC	103.756756	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	103.921641	101.153756	106.689526
THSm2.2	103.165295	101.212061	105.118529
mCC	103.756756	101.192478	106.321034

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	0.164885	-3.628223 3.957994
2	3	-0.591461	-3.794719 2.611797

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	103.921641	
THSm2.2	103.165295	0.6607
mCC	103.756756	0.9316

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	103.921641	101.153756	106.689526
THSm2.2	103.165295	101.212061	105.118529
mCC	103.756756	101.192478	106.321034

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.756347	-4.155205 2.642511
3	1	-0.164885	-3.957994 3.628223

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT1FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT1FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	3890.029422	778.005884	26.04	<.0001
Error	151	4511.180769	29.875369		
Corrected Total	156	8401.210191			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.463032	7.977469	5.465837	68.51592

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	3531.825372	3531.825372	118.22	<.0001
SEX	1	6.443657	6.443657	0.22	0.6430
UCPDGR1	1	0.000204	0.000204	0.00	0.9979
TRTP	2	351.760189	175.880094	5.89	0.0035

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	2773.414515	2773.414515	92.83	<.0001
SEX	1	10.740874	10.740874	0.36	0.5497
UCPDGR1	1	0.040350	0.040350	0.00	0.9707
TRTP	2	351.760189	175.880094	5.89	0.0035

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT1FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	66.3587464	0.2473
THSm2.2	69.9414286	0.0428
mCC	67.7920907	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	66.358746	64.598669 68.118823
THSm2.2	69.941429	68.696390 71.186468
mCC	67.792091	66.111480 69.472701

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.433344	-3.871926	1.005238
2 3	2.149338	0.070242	4.228434

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT1FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	66.3587464	
THSm2.2	69.9414286	0.0013
mCC	67.7920907	0.2473

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	66.358746	64.598669 68.118823
THSm2.2	69.941429	68.696390 71.186468
mCC	67.792091	66.111480 69.472701

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	3.582682	1.427430	5.737935
3 1	1.433344	-1.005238	3.871926

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT2FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT2FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5685.68977	1137.13795	34.36	<.0001
Error	148	4897.66737	33.09235		
Corrected Total	153	10583.35714			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.537229	8.938549	5.752595	64.35714

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	5471.764357	5471.764357	165.35	<.0001
SEX	1	59.591915	59.591915	1.80	0.1817
UCPDGR1	1	57.967943	57.967943	1.75	0.1877
TRTP	2	96.365555	48.182778	1.46	0.2365

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	4105.525057	4105.525057	124.06	<.0001
SEX	1	67.209898	67.209898	2.03	0.1562
UCPDGR1	1	64.653705	64.653705	1.95	0.1643
TRTP	2	96.365555	48.182778	1.46	0.2365

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT2FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	62.9104959	0.1665
THSm2.2	64.7791131	0.9640
mCC	64.7283730	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	62.910496	61.057225 64.763767
THSm2.2	64.779113	63.450615 66.107611
mCC	64.728373	62.938046 66.518700

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.817877	-4.401408	0.765654
2 3	0.050740	-2.165731	2.267211

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT2FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	62.9104959	
THSm2.2	64.7791131	0.1074
mCC	64.7283730	0.1665

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	62.910496	61.057225 64.763767
THSm2.2	64.779113	63.450615 66.107611
mCC	64.728373	62.938046 66.518700

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LSMean(i)-LSMean(j)		
2	1	1.868617	-0.411299	4.148533
3	1	1.817877	-0.765654	4.401408

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT3FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT3FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	4613.58086	922.71617	23.83	<.0001
Error	144	5575.45914	38.71847		
Corrected Total	149	10189.04000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.452798	9.561181	6.222416	65.08000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	4413.852287	4413.852287	114.00	<.0001
SEX	1	71.906609	71.906609	1.86	0.1751
UCPDGR1	1	11.447329	11.447329	0.30	0.5875
TRTP	2	116.374631	58.187315	1.50	0.2260

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	3341.761183	3341.761183	86.31	<.0001
SEX	1	76.218144	76.218144	1.97	0.1628
UCPDGR1	1	14.730170	14.730170	0.38	0.5383
TRTP	2	116.374631	58.187315	1.50	0.2260

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT3FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.5426123	0.0932
THSm2.2	65.2073151	0.5468
mCC	65.9455901	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.542612	61.513150 65.572075
THSm2.2	65.207315	63.738220 66.676411
mCC	65.945590	64.008983 67.882198

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-2.402978	-5.213936	0.407981
2 3	-0.738275	-3.154243	1.677693

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT3FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.5426123	
THSm2.2	65.2073151	0.1912
mCC	65.9455901	0.0932

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.542612	61.513150 65.572075
THSm2.2	65.207315	63.738220 66.676411
mCC	65.945590	64.008983 67.882198

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	1.664703	-0.840634 4.170040
3	1	2.402978	-0.407981 5.213936

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	4712.718419	942.543684	25.64	<.0001
Error	142	5220.761310	36.765925		
Corrected Total	147	9933.479730			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.474428	9.609130	6.063491	63.10135

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	4195.837737	4195.837737	114.12	<.0001
SEX	1	449.653500	449.653500	12.23	0.0006
UCPDGR1	1	0.062983	0.062983	0.00	0.9670
TRTP	2	67.164200	33.582100	0.91	0.4035

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	3144.846049	3144.846049	85.54	<.0001
SEX	1	430.218322	430.218322	11.70	0.0008
UCPDGR1	1	0.065304	0.065304	0.00	0.9664
TRTP	2	67.164200	33.582100	0.91	0.4035

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.9317589	0.4727
THSm2.2	62.2488085	0.5705
mCC	62.9278254	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.931759	61.925619 65.937898
THSm2.2	62.248808	60.810202 63.687415
mCC	62.927825	61.040336 64.815315

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	1.003933	-1.752161	3.760028
2 3	-0.679017	-3.039591	1.681557

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: DIABP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.9317589	
THSm2.2	62.2488085	0.1800
mCC	62.9278254	0.4727

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.931759	61.925619 65.937898
THSm2.2	62.248808	60.810202 63.687415
mCC	62.927825	61.040336 64.815315

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-1.682950	-4.151787 0.785886
3	1	-1.003933	-3.760028 1.752161

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: WEIGHT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: WEIGHT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	17131.65150	3426.33030	1205.52	<.0001
Error	142	403.59357	2.84221		
Corrected Total	147	17535.24507			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.976984	2.681155	1.685885	62.87905

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	17090.51194	17090.51194	6013.11	<.0001
SEX	1	0.11361	0.11361	0.04	0.8418
UCPDGR1	1	0.32776	0.32776	0.12	0.7347
TRTP	2	40.69820	20.34910	7.16	0.0011

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	11374.26232	11374.26232	4001.91	<.0001
SEX	1	0.13625	0.13625	0.05	0.8270
UCPDGR1	1	0.40890	0.40890	0.14	0.7050
TRTP	2	40.69820	20.34910	7.16	0.0011

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: WEIGHT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.7938245	0.0030
THSm2.2	62.5533591	0.7926
mCC	62.6408231	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.793825	63.243521 64.344128
THSm2.2	62.553359	62.153240 62.953478
mCC	62.640823	62.115488 63.166158

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	1.153001	0.397027	1.908976
2 3	-0.087464	-0.743934	0.569006

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: WEIGHT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.7938245	
THSm2.2	62.5533591	0.0004
mCC	62.6408231	0.0030

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.793825	63.243521 64.344128
THSm2.2	62.553359	62.153240 62.953478
mCC	62.640823	62.115488 63.166158

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-1.240465	-1.918076 -0.562855
3	1	-1.153001	-1.908976 -0.397027

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: WSTCIR, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: WSTCIR, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	4811.55841	962.31168	9.36	<.0001
Error	142	14600.68483	102.82172		
Corrected Total	147	19412.24324			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.247862	12.55846	10.14010	80.74324

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	4354.183234	4354.183234	42.35	<.0001
SEX	1	328.769898	328.769898	3.20	0.0759
UCPDGR1	1	55.730101	55.730101	0.54	0.4628
TRTP	2	72.875179	36.437589	0.35	0.7022

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	3165.238727	3165.238727	30.78	<.0001
SEX	1	301.056915	301.056915	2.93	0.0892
UCPDGR1	1	52.235557	52.235557	0.51	0.4772
TRTP	2	72.875179	36.437589	0.35	0.7022

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: WSTCIR, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	80.9566656	0.5114
THSm2.2	81.0385796	0.4251
mCC	79.4393343	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	80.956666	77.642249 84.271083
THSm2.2	81.038580	78.630751 83.446408
mCC	79.439334	76.287648 82.591021

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	1.517331	-3.039237	6.073899
2 3	1.599245	-2.352736	5.551226

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set**

The where clause used on the dataset adam.advs: PPROT4FL=Y and ANL01FL=Y

Paramcd: WSTCIR, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	80.9566656	
THSm2.2	81.0385796	0.9684
mCC	79.4393343	0.5114

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	80.956666	77.642249 84.271083
THSm2.2	81.038580	78.630751 83.446408
mCC	79.439334	76.287648 82.591021

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.081914	-3.994635 4.158463
3	1	-1.517331	-6.073899 3.039237

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.24716016	1.84943203	39.65	<.0001
Error	151	7.04327322	0.04664419		
Corrected Total	156	16.29043338			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.567644	3.412360	0.215973	6.329129

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.39246015	8.39246015	179.93	<.0001
SEX	1	0.25966245	0.25966245	5.57	0.0196
UCPDGR1	1	0.04198385	0.04198385	0.90	0.3443
TRTP	2	0.55305371	0.27652686	5.93	0.0033

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.08549877	8.08549877	173.34	<.0001
SEX	1	0.27370169	0.27370169	5.87	0.0166
UCPDGR1	1	0.05139522	0.05139522	1.10	0.2955
TRTP	2	0.55305371	0.27652686	5.93	0.0033

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	6.26435724	0.0010
THSm2.2	6.32278433	0.0134
mCC	6.42725220	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	6.264357	6.195619 6.333095
THSm2.2	6.322784	6.273574 6.371995
mCC	6.427252	6.360716 6.493788

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.162895	-0.258587	-0.067203
2 3	-0.104468	-0.186959	-0.021976

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT1FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.26435724	
THSm2.2	6.32278433	0.1721
mCC	6.42725220	0.0010

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.264357	6.195619	6.333095
THSm2.2	6.322784	6.273574	6.371995
mCC	6.427252	6.360716	6.493788

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	0.058427	-0.025718	0.142572
3	1	0.162895	0.067203	0.258587

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 154

**Number of Observations Used** 154

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	10.81788410	2.16357682	27.70	<.0001
Error	148	11.56158421	0.07811881		
Corrected Total	153	22.37946832			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.483384	4.501654	0.279497	6.208772

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.21452659	9.21452659	117.96	<.0001
SEX	1	0.25810407	0.25810407	3.30	0.0711
UCPDGR1	1	0.46875428	0.46875428	6.00	0.0155
TRTP	2	0.87649916	0.43824958	5.61	0.0045

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.81830257	8.81830257	112.88	<.0001
SEX	1	0.28811666	0.28811666	3.69	0.0567
UCPDGR1	1	0.51805086	0.51805086	6.63	0.0110
TRTP	2	0.87649916	0.43824958	5.61	0.0045

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.21459656	0.0536
THSm2.2	6.15404170	0.0010
mCC	6.33708663	

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.214597	6.125677	6.303516
THSm2.2	6.154042	6.089496	6.218587
mCC	6.337087	6.250028	6.424146

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
1	3	-0.122490	-0.246904	0.001924
2	3	-0.183045	-0.291053	-0.075036

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT2FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.21459656	
THSm2.2	6.15404170	0.2758
mCC	6.33708663	0.0536

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.214597	6.125677	6.303516
THSm2.2	6.154042	6.089496	6.218587
mCC	6.337087	6.250028	6.424146

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	-0.060555	-0.169954	0.048844
3	1	0.122490	-0.001924	0.246904

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 150

**Number of Observations Used** 150

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7.64453153	1.52890631	15.20	<.0001
Error	144	14.48789225	0.10061036		
Corrected Total	149	22.13242378			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.345400	5.145311	0.317191	6.164668

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.58529230	5.58529230	55.51	<.0001
SEX	1	0.71795495	0.71795495	7.14	0.0084
UCPDGR1	1	0.51841785	0.51841785	5.15	0.0247
TRTP	2	0.82286642	0.41143321	4.09	0.0187

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.26390728	5.26390728	52.32	<.0001
SEX	1	0.76552921	0.76552921	7.61	0.0066
UCPDGR1	1	0.56826372	0.56826372	5.65	0.0188
TRTP	2	0.82286642	0.41143321	4.09	0.0187

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.12822209	0.0182
THSm2.2	6.13535032	0.0093
mCC	6.30041152	

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.128222	6.025889	6.230555
THSm2.2	6.135350	6.060461	6.210239
mCC	6.300412	6.201447	6.399376

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
1	3	-0.172189	-0.314693	-0.029686
2	3	-0.165061	-0.288737	-0.041385

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT3FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.12822209	
THSm2.2	6.13535032	0.9113
mCC	6.30041152	0.0182

TRTP	LOGAVAL 95% Confidence	
	LSMEAN	Limits
SA	6.128222	6.025889 6.230555
THSm2.2	6.135350	6.060461 6.210239
mCC	6.300412	6.201447 6.399376

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	0.007128	-0.119116	0.133372
3	1	0.172189	0.029686	0.314693

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 148

**Number of Observations Used** 148

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.16539366	1.83307873	18.54	<.0001
Error	142	14.04035680	0.09887575		
Corrected Total	147	23.20575046			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.394962	5.075553	0.314445	6.195289

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.65917189	6.65917189	67.35	<.0001
SEX	1	1.46378871	1.46378871	14.80	0.0002
UCPDGR1	1	0.15397299	0.15397299	1.56	0.2141
TRTP	2	0.88846006	0.44423003	4.49	0.0128

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.15986146	6.15986146	62.30	<.0001
SEX	1	1.49827343	1.49827343	15.15	0.0002
UCPDGR1	1	0.16093774	0.16093774	1.63	0.2041
TRTP	2	0.88846006	0.44423003	4.49	0.0128

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.09440053	0.0033
<b>THSm2.2</b>	6.21563961	0.1327
<b>mCC</b>	6.30974238	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	6.094401	5.991447 6.197354
<b>THSm2.2</b>	6.215640	6.141035 6.290244
<b>mCC</b>	6.309742	6.211569 6.407916

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.215342	-0.357584	-0.073100
<b>2 3</b>	-0.094103	-0.217112	0.028906

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.1.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - PP Set**

The where clause used on the dataset adam.adbx: PPROT4FL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.09440053	
THSm2.2	6.21563961	0.0603
mCC	6.30974238	0.0033

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.094401	5.991447	6.197354
THSm2.2	6.215640	6.141035	6.290244
mCC	6.309742	6.211569	6.407916

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	0.121239	-0.005305	0.247783
3	1	0.215342	0.073100	0.357584

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
<b>N</b>	160	<b>Sum Weights</b>	160
<b>Mean</b>	0.4501875	<b>Sum Observations</b>	72.03
<b>Std Deviation</b>	1.3374337	<b>Variance</b>	1.7887289
<b>Skewness</b>	8.55513758	<b>Kurtosis</b>	82.0839467
<b>Uncorrected SS</b>	316.8349	<b>Corrected SS</b>	284.407894
<b>Coeff Variation</b>	297.083703	<b>Std Error Mean</b>	0.10573342

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	0.450188	<b>Std Deviation</b>	1.33743
<b>Median</b>	0.100000	<b>Variance</b>	1.78873
<b>Mode</b>	0.100000	<b>Range</b>	14.30000
		<b>Interquartile Range</b>	0.30500

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	<b>t</b>	4.25776	<b>Pr &gt;  t </b> <.0001
<b>Sign</b>	<b>M</b>	80	<b>Pr &gt;=  M </b> <.0001
<b>Signed Rank</b>	<b>S</b>	6440	<b>Pr &gt;=  S </b> <.0001

Tests for Normality			
Test	Statistic	p Value	
<b>Shapiro-Wilk</b>	<b>W</b>	0.24206	<b>Pr &lt; W</b> <0.0001
<b>Kolmogorov-Smirnov</b>	<b>D</b>	0.396724	<b>Pr &gt; D</b> <0.0100
<b>Cramer-von Mises</b>	<b>W-Sq</b>	7.596756	<b>Pr &gt; W-Sq</b> <0.0050



Tests for Normality			
Test	Statistic	p Value	
Anderson-Darling	A-Sq 37.71484	Pr > A-Sq	<0.0050

#### Quantiles (Definition 5)

Level	Quantile
100% Max	14.400
99%	8.310
95%	1.270
90%	0.895
75% Q3	0.405
50% Median	0.100
25% Q1	0.100
10%	0.100
5%	0.100
1%	0.100
0% Min	0.100

#### Extreme

##### Observations

Lowest		Highest	
Value	Obs	Value	Obs
0.1	160	1.70	151
0.1	159	1.93	127
0.1	158	2.27	129
0.1	157	8.31	74
0.1	156	14.40	96

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
<b>N</b>	150	<b>Sum Weights</b>	150
<b>Mean</b>	284	<b>Sum Observations</b>	42600
<b>Std Deviation</b>	52.5990277	<b>Variance</b>	2766.65772
<b>Skewness</b>	0.71157896	<b>Kurtosis</b>	-0.1971242
<b>Uncorrected SS</b>	12510632	<b>Corrected SS</b>	412232
<b>Coeff Variation</b>	18.5207844	<b>Std Error Mean</b>	4.29469263

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	284.0000	<b>Std Deviation</b>	52.59903
<b>Median</b>	271.0000	<b>Variance</b>	2767
<b>Mode</b>	250.0000	<b>Range</b>	239.00000
		<b>Interquartile Range</b>	83.00000

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	t	66.12813	Pr >  t  <.0001
<b>Sign</b>	M	75	Pr >=  M  <.0001
<b>Signed Rank</b>	S	5662.5	Pr >=  S  <.0001

Tests for Normality		
Test	Statistic	p Value



Tests for Normality			
Test	Statistic		p Value
Shapiro-Wilk	W	0.93966	Pr < W <0.0001
Kolmogorov-Smirnov	D	0.136122	Pr > D <0.0100
Cramer-von Mises	W-Sq	0.565016	Pr > W-Sq <0.0050
Anderson-Darling	A-Sq	3.195411	Pr > A-Sq <0.0050

#### Quantiles (Definition 5)

Level	Quantile
100% Max	431.0
99%	427.0
95%	379.0
90%	351.0
75% Q3	327.0
50% Median	271.0
25% Q1	244.0
10%	229.5
5%	216.0
1%	201.0
0% Min	192.0

#### Extreme

Observations			
Lowest		Highest	
Value	Obs	Value	Obs
192	264	409	233
201	254	413	256
207	164	414	208
209	270	427	303
211	258	431	195



Missing Values		
Percent Of		
Missing	Missing	
Value Count	All Obs	Obs
10	6.25	100.00

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
<b>N</b>	160	<b>Sum Weights</b>	160
<b>Mean</b>	85.21875	<b>Sum Observations</b>	13635
<b>Std Deviation</b>	7.20208904	<b>Variance</b>	51.8700865
<b>Skewness</b>	0.41126499	<b>Kurtosis</b>	0.17704132
<b>Uncorrected SS</b>	1170205	<b>Corrected SS</b>	8247.34375
<b>Coeff Variation</b>	8.45129626	<b>Std Error Mean</b>	0.56937513

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	85.21875	<b>Std Deviation</b>	7.20209
<b>Median</b>	85.00000	<b>Variance</b>	51.87009
<b>Mode</b>	85.00000	<b>Range</b>	40.00000
		<b>Interquartile Range</b>	10.00000

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	t	149.6707	Pr >  t  <.0001
<b>Sign</b>	M	80	Pr >=  M  <.0001
<b>Signed Rank</b>	S	6440	Pr >=  S  <.0001

Tests for Normality		
Test	Statistic	p Value



Tests for Normality			
Test	Statistic		p Value
Shapiro-Wilk	W	0.981015	Pr < W 0.0269
Kolmogorov-Smirnov	D	0.081809	Pr > D <0.0100
Cramer-von Mises	W-Sq	0.147495	Pr > W-Sq 0.0250
Anderson-Darling	A-Sq	0.857188	Pr > A-Sq 0.0274

#### Quantiles (Definition 5)

Level	Quantile
100% Max	110
99%	103
95%	99
90%	94
75% Q3	90
50% Median	85
25% Q1	80
10%	76
5%	74
1%	72
0% Min	70

#### Extreme

Observations			
Lowest		Highest	
Value	Obs	Value	Obs
70	328	101	406
72	383	101	420
72	380	101	480
72	352	103	393
72	334	110	473

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
<b>N</b>	160	<b>Sum Weights</b>	160
<b>Mean</b>	12.5961875	<b>Sum Observations</b>	2015.39
<b>Std Deviation</b>	9.97554802	<b>Variance</b>	99.5115583
<b>Skewness</b>	3.45954148	<b>Kurtosis</b>	13.4125424
<b>Uncorrected SS</b>	41208.5681	<b>Corrected SS</b>	15822.3378
<b>Coeff Variation</b>	79.1949788	<b>Std Error Mean</b>	0.78863632

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	12.59619	<b>Std Deviation</b>	9.97555
<b>Median</b>	9.81500	<b>Variance</b>	99.51156
<b>Mode</b>	6.82000	<b>Range</b>	65.30000
		<b>Interquartile Range</b>	4.77000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	<b>t</b>	15.97211	<b>Pr &gt;  t </b> <.0001
<b>Sign</b>	<b>M</b>	80	<b>Pr &gt;=  M </b> <.0001
<b>Signed Rank</b>	<b>S</b>	6440	<b>Pr &gt;=  S </b> <.0001



**Tests for Normality**

Test	Statistic	p Value
Shapiro-Wilk	W 0.575171	Pr < W <0.0001
Kolmogorov-Smirnov	D 0.300783	Pr > D <0.0100
Cramer-von Mises	W-Sq 4.175365	Pr > W-Sq <0.0050
Anderson-Darling	A-Sq 21.81929	Pr > A-Sq <0.0050

**Quantiles (Definition 5)**

Level	Quantile
100% Max	69.650
99%	61.440
95%	32.665
90%	18.585
75% Q3	12.570
50% Median	9.815
25% Q1	7.800
10%	6.685
5%	5.855
1%	4.970
0% Min	4.350

**Extreme****Observations**

Lowest	Highest
Value Obs	Value Obs
4.35 599	47.39 521
4.97 591	48.27 568
4.99 598	57.13 575
5.19 595	61.44 630



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<b>Extreme Observations</b>			
<b>Lowest</b>		<b>Highest</b>	
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
5.22	500	69.65	627

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adxp/adlb: FASFL=Y and avisitn=100

Shapiro-Wilk Test, Paramcd: CRP, FIBRINO, HOMOCY, GLUC, PLAT

Variable: AVAL (Analysis Value)

Moments			
<b>N</b>	160	<b>Sum Weights</b>	160
<b>Mean</b>	229.6375	<b>Sum Observations</b>	36742
<b>Std Deviation</b>	50.7511486	<b>Variance</b>	2575.67909
<b>Skewness</b>	1.11361422	<b>Kurtosis</b>	2.94490463
<b>Uncorrected SS</b>	8846874	<b>Corrected SS</b>	409532.975
<b>Coeff Variation</b>	22.1005492	<b>Std Error Mean</b>	4.01223059

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	229.6375	<b>Std Deviation</b>	50.75115
<b>Median</b>	224.0000	<b>Variance</b>	2576
<b>Mode</b>	244.0000	<b>Range</b>	308.00000
		<b>Interquartile Range</b>	63.50000

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	t	57.23437	Pr >  t  <.0001
<b>Sign</b>	M	80	Pr >=  M  <.0001
<b>Signed Rank</b>	S	6440	Pr >=  S  <.0001

Tests for Normality		
Test	Statistic	p Value



Tests for Normality			
Test	Statistic		p Value
Shapiro-Wilk	W	0.939775	Pr < W <0.0001
Kolmogorov-Smirnov	D	0.072	Pr > D 0.0417
Cramer-von Mises	W-Sq	0.164604	Pr > W-Sq 0.0164
Anderson-Darling	A-Sq	1.168352	Pr > A-Sq <0.0050

#### Quantiles (Definition 5)

Level	Quantile
100% Max	448.0
99%	444.0
95%	315.0
90%	285.5
75% Q3	259.5
50% Median	224.0
25% Q1	196.0
10%	168.5
5%	159.0
1%	145.0
0% Min	140.0

#### Extreme

Observations			
Lowest		Highest	
Value	Obs	Value	Obs
140	712	331	743
145	709	335	730
147	799	363	788
147	744	444	670
148	689	448	783

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 5 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 5 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8.29254355	1.65850871	44.67	<.0001
Error	154	5.71829329	0.03713177		
Corrected Total	159	14.01083684			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.591866	3.655334	0.192696	5.271641

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.20622478	8.20622478	221.00	<.0001
SEX	1	0.00017312	0.00017312	0.00	0.9457
UCPDGR1	1	0.04674426	0.04674426	1.26	0.2636
TRTP	2	0.03940139	0.01970070	0.53	0.5893

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.93406975	7.93406975	213.67	<.0001
SEX	1	0.00103747	0.00103747	0.03	0.8675
UCPDGR1	1	0.04937348	0.04937348	1.33	0.2506
TRTP	2	0.03940139	0.01970070	0.53	0.5893

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.26769522	0.4651
<b>THSm2.2</b>	5.26159453	0.3135
<b>mCC</b>	5.29890814	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.267695	5.207399 5.327992
<b>THSm2.2</b>	5.261595	5.218217 5.304972
<b>mCC</b>	5.298908	5.239774 5.358043

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.031213	-0.115411	0.052985
<b>2 3</b>	-0.037314	-0.110215	0.035587

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.26769522	
<b>THSm2.2</b>	5.26159453	0.8710
<b>mCC</b>	5.29890814	0.4651

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.267695	5.207399 5.327992
<b>THSm2.2</b>	5.261595	5.218217 5.304972
<b>mCC</b>	5.298908	5.239774 5.358043

**Least Squares Means for Effect**

<b>TRTP</b>			
		<b>Difference</b>	<b>95% Confidence</b>
		<b>Between</b>	<b>Limits for</b>
<b>i j</b>	<b>Means</b>	<b>LSMean(i)-LSMean(j)</b>	
<b>2 1</b>	-0.006101	-0.080173	0.067972
<b>3 1</b>	0.031213	-0.052985	0.115411

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7.33940133	1.46788027	29.19	<.0001
Error	154	7.74466980	0.05029006		
Corrected Total	159	15.08407113			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.486566	4.204080	0.224254	5.334210

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.98345211	6.98345211	138.86	<.0001
SEX	1	0.05325068	0.05325068	1.06	0.3051
UCPDGR1	1	0.07207357	0.07207357	1.43	0.2331
TRTP	2	0.23062497	0.11531249	2.29	0.1044

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.86278545	6.86278545	136.46	<.0001
SEX	1	0.04354664	0.04354664	0.87	0.3535
UCPDGR1	1	0.07936159	0.07936159	1.58	0.2109
TRTP	2	0.23062497	0.11531249	2.29	0.1044

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.35264853	0.5391
<b>THSm2.2</b>	5.29551010	0.0429
<b>mCC</b>	5.38317750	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.352649	5.282477 5.422820
<b>THSm2.2</b>	5.295510	5.245029 5.345991
<b>mCC</b>	5.383177	5.314358 5.451997

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.030529	-0.128517	0.067459
<b>2 3</b>	-0.087667	-0.172508	-0.002827

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.35264853	
THSm2.2	5.29551010	0.1923
mCC	5.38317750	0.5391

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.352649	5.282477 5.422820
THSm2.2	5.295510	5.245029 5.345991
mCC	5.383177	5.314358 5.451997

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.057138	-0.143342 0.029065
3	1	0.030529	-0.067459 0.128517

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	10.05135629	2.01027126	30.62	<.0001
Error	154	10.11052561	0.06565276		
Corrected Total	159	20.16188191			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.498533	4.800771	0.256228	5.337225

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.41724948	9.41724948	143.44	<.0001
SEX	1	0.01081208	0.01081208	0.16	0.6854
UCPDGR1	1	0.00216875	0.00216875	0.03	0.8560
TRTP	2	0.62112598	0.31056299	4.73	0.0101

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.23385209	9.23385209	140.65	<.0001
SEX	1	0.00731990	0.00731990	0.11	0.7389
UCPDGR1	1	0.00499600	0.00499600	0.08	0.7830
TRTP	2	0.62112598	0.31056299	4.73	0.0101

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.33301725	0.0720
<b>THSm2.2</b>	5.28482347	0.0025
<b>mCC</b>	5.43568049	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.333017	5.252841 5.413194
<b>THSm2.2</b>	5.284823	5.227145 5.342502
<b>mCC</b>	5.435680	5.357049 5.514312

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.102663	-0.214622	0.009295
<b>2 3</b>	-0.150857	-0.247794	-0.053920

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.33301725	
THSm2.2	5.28482347	0.3353
mCC	5.43568049	0.0720

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.333017	5.252841 5.413194
THSm2.2	5.284823	5.227145 5.342502
mCC	5.435680	5.357049 5.514312

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	-0.048194	-0.146688 0.050300
3	1	0.102663	-0.009295 0.214622

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8.89748302	1.77949660	22.81	<.0001
Error	154	12.01450046	0.07801624		
Corrected Total	159	20.91198348			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.425473	5.262569	0.279314	5.307558

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.86936569	7.86936569	100.87	<.0001
SEX	1	0.12665569	0.12665569	1.62	0.2045
UCPDGR1	1	0.30251505	0.30251505	3.88	0.0507
TRTP	2	0.59894660	0.29947330	3.84	0.0236

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.66397300	7.66397300	98.24	<.0001
SEX	1	0.09642511	0.09642511	1.24	0.2680
UCPDGR1	1	0.32717393	0.32717393	4.19	0.0423
TRTP	2	0.59894660	0.29947330	3.84	0.0236

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.33056162	0.3244
<b>THSm2.2</b>	5.24745535	0.0078
<b>mCC</b>	5.39163619	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.330562	5.243162 5.417962
<b>THSm2.2</b>	5.247455	5.184580 5.310331
<b>mCC</b>	5.391636	5.305920 5.477352

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.061075	-0.183120	0.060971
<b>2 3</b>	-0.144181	-0.249851	-0.038510

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UPGF2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.33056162	
<b>THSm2.2</b>	5.24745535	0.1283
<b>mCC</b>	5.39163619	0.3244

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.330562	5.243162 5.417962
<b>THSm2.2</b>	5.247455	5.184580 5.310331
<b>mCC</b>	5.391636	5.305920 5.477352

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.083106	-0.190475	0.024262
<b>3 1</b>	0.061075	-0.060971	0.183120

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.32862339	1.86572468	40.53	<.0001
Error	154	7.08967828	0.04603687		
Corrected Total	159	16.41830167			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.568184	3.388168	0.214562	6.332687

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.48849835	8.48849835	184.38	<.0001
SEX	1	0.26894846	0.26894846	5.84	0.0168
UCPDGR1	1	0.03367174	0.03367174	0.73	0.3938
TRTP	2	0.53750484	0.26875242	5.84	0.0036

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.19921396	8.19921396	178.10	<.0001
SEX	1	0.28704543	0.28704543	6.24	0.0136
UCPDGR1	1	0.04008830	0.04008830	0.87	0.3522
TRTP	2	0.53750484	0.26875242	5.84	0.0036

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.27112434	0.0011
<b>THSm2.2</b>	6.32657053	0.0129
<b>mCC</b>	6.43055540	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	6.271124	6.203745 6.338504
<b>THSm2.2</b>	6.326571	6.278231 6.374910
<b>mCC</b>	6.430555	6.364423 6.496688

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.159431	-0.253932	-0.064930
<b>2 3</b>	-0.103985	-0.185609	-0.022361

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.27112434	
<b>THSm2.2</b>	6.32657053	0.1864
<b>mCC</b>	6.43055540	0.0011

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	6.271124	6.203745 6.338504
<b>THSm2.2</b>	6.326571	6.278231 6.374910
<b>mCC</b>	6.430555	6.364423 6.496688

**Least Squares Means for Effect**

<b>TRTP</b>			
		<b>Difference</b>	<b>95% Confidence</b>
		<b>Between</b>	<b>Limits for</b>
<b>i j</b>	<b>Means</b>	<b>LSMean(i)-LSMean(j)</b>	
<b>2 1</b>	0.055446	-0.027087	0.137979
<b>3 1</b>	0.159431	0.064930	0.253932

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	11.46702305	2.29340461	28.96	<.0001
Error	154	12.19628296	0.07919664		
Corrected Total	159	23.66330600			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.484591	4.537029	0.281419	6.202715

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.84644066	9.84644066	124.33	<.0001
SEX	1	0.28088540	0.28088540	3.55	0.0616
UCPDGR1	1	0.36857120	0.36857120	4.65	0.0325
TRTP	2	0.97112579	0.48556289	6.13	0.0027

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.48693967	9.48693967	119.79	<.0001
SEX	1	0.31705562	0.31705562	4.00	0.0472
UCPDGR1	1	0.40443289	0.40443289	5.11	0.0252
TRTP	2	0.97112579	0.48556289	6.13	0.0027

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.21926969	0.0723
<b>THSm2.2</b>	6.14341214	0.0006
<b>mCC</b>	6.33281253	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	6.219270	6.130895 6.307644
<b>THSm2.2</b>	6.143412	6.080010 6.206814
<b>mCC</b>	6.332813	6.246073 6.419552

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.113543	-0.237490	0.010405
<b>2 3</b>	-0.189400	-0.296458	-0.082343

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	6.21926969	
THSm2.2	6.14341214	0.1683
mCC	6.33281253	0.0723

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	6.219270	6.130895 6.307644
THSm2.2	6.143412	6.080010 6.206814
mCC	6.332813	6.246073 6.419552

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.075858	-0.184107	0.032392
3 1	0.113543	-0.010405	0.237490

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8.31969337	1.66393867	16.93	<.0001
Error	154	15.13486220	0.09827833		
Corrected Total	159	23.45455558			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.354715	5.086731	0.313494	6.162971

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.37595585	6.37595585	64.88	<.0001
SEX	1	0.75055849	0.75055849	7.64	0.0064
UCPDGR1	1	0.46399917	0.46399917	4.72	0.0313
TRTP	2	0.72917986	0.36458993	3.71	0.0267

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.94193158	5.94193158	60.46	<.0001
SEX	1	0.82560504	0.82560504	8.40	0.0043
UCPDGR1	1	0.49714811	0.49714811	5.06	0.0259
TRTP	2	0.72917986	0.36458993	3.71	0.0267

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.13461547	0.0267
<b>THSm2.2</b>	6.13700588	0.0117
<b>mCC</b>	6.29099993	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	6.134615	6.036169 6.233062
<b>THSm2.2</b>	6.137006	6.066378 6.207634
<b>mCC</b>	6.291000	6.194375 6.387625

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.156384	-0.294459	-0.018310
<b>2 3</b>	-0.153994	-0.273254	-0.034734

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	6.13461547	
THSm2.2	6.13700588	0.9688
mCC	6.29099993	0.0267

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	6.134615	6.036169 6.233062
THSm2.2	6.137006	6.066378 6.207634
mCC	6.291000	6.194375 6.387625

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.002390	-0.118197	0.122978
3 1	0.156384	0.018310	0.294459

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.62951687	1.92590337	19.65	<.0001
Error	154	15.09507347	0.09801996		
Corrected Total	159	24.72459035			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.389471	5.062271	0.313081	6.184604

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.31537562	7.31537562	74.63	<.0001
SEX	1	1.30287355	1.30287355	13.29	0.0004
UCPDGR1	1	0.15883612	0.15883612	1.62	0.2049
TRTP	2	0.85243159	0.42621579	4.35	0.0146

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.64451067	6.64451067	67.79	<.0001
SEX	1	1.37882905	1.37882905	14.07	0.0002
UCPDGR1	1	0.17159877	0.17159877	1.75	0.1878
TRTP	2	0.85243159	0.42621579	4.35	0.0146

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.09267732	0.0037
<b>THSm2.2</b>	6.20319863	0.1166
<b>mCC</b>	6.29835027	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	6.092677	5.994360 6.190995
<b>THSm2.2</b>	6.203199	6.132664 6.273734
<b>mCC</b>	6.298350	6.201852 6.394849

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.205673	-0.343566	-0.067780
<b>2 3</b>	-0.095152	-0.214255	0.023951

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	6.09267732	
<b>THSm2.2</b>	6.20319863	0.0718
<b>mCC</b>	6.29835027	0.0037

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	6.092677	5.994360 6.190995
<b>THSm2.2</b>	6.203199	6.132664 6.273734
<b>mCC</b>	6.298350	6.201852 6.394849

**Least Squares Means for Effect**

<b>TRTP</b>			
		<b>Difference</b>	<b>95% Confidence</b>
		<b>Between</b>	<b>Limits for</b>
<b>i j</b>	<b>Means</b>	<b>LSMean(i)-LSMean(j)</b>	
<b>2 1</b>	0.110521	-0.009908	0.230950
<b>3 1</b>	0.205673	0.067780	0.343566

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 6/Discharge Confinement Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 6/Discharge Confinement Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	19.70382741	3.94076548	114.20	<.0001
Error	154	5.31393717	0.03450609		
Corrected Total	159	25.01776458			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.787593	3.490497	0.185758	5.321826

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	19.49017917	19.49017917	564.83	<.0001
SEX	1	0.12712272	0.12712272	3.68	0.0568
UCPDGR1	1	0.00950056	0.00950056	0.28	0.6005
TRTP	2	0.07702496	0.03851248	1.12	0.3302

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	19.34294193	19.34294193	560.57	<.0001
SEX	1	0.13703740	0.13703740	3.97	0.0480
UCPDGR1	1	0.01073985	0.01073985	0.31	0.5777
TRTP	2	0.07702496	0.03851248	1.12	0.3302

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 6/Discharge Confinement Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.30214619	0.1516
<b>THSm2.2</b>	5.32058707	0.2565
<b>mCC</b>	5.36138714	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.302146	5.244013 5.360280
<b>THSm2.2</b>	5.320587	5.278639 5.362535
<b>mCC</b>	5.361387	5.304186 5.418588

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.059241	-0.140454	0.021972
<b>2 3</b>	-0.040800	-0.111575	0.029975

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 6/Discharge Confinement Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.30214619	
THSm2.2	5.32058707	0.6113
mCC	5.36138714	0.1516

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	5.302146	5.244013	5.360280
THSm2.2	5.320587	5.278639	5.362535
mCC	5.361387	5.304186	5.418588

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.018441	-0.053102 0.089983
3	1	0.059241	-0.021972 0.140454

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	18.46831428	3.69366286	57.61	<.0001
Error	154	9.87319944	0.06411168		
Corrected Total	159	28.34151372			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.651635	4.794412	0.253203	5.281208

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	16.25803879	16.25803879	253.59	<.0001
SEX	1	1.71006204	1.71006204	26.67	<.0001
UCPDGR1	1	0.21566439	0.21566439	3.36	0.0686
TRTP	2	0.28454905	0.14227452	2.22	0.1122

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	16.40400584	16.40400584	255.87	<.0001
SEX	1	1.79840559	1.79840559	28.05	<.0001
UCPDGR1	1	0.22930022	0.22930022	3.58	0.0605
TRTP	2	0.28454905	0.14227452	2.22	0.1122

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.29734177	0.2177
THSm2.2	5.26386395	0.0368
mCC	5.36670334	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	5.297342	5.218101	5.376582
THSm2.2	5.263864	5.206685	5.321043
mCC	5.366703	5.288734	5.444673

**Least Squares Means for Effect**

TRTP			
Difference Between Means		95% Confidence Limits for LSMean(i)-LSMean(j)	
i	j		
1	3	-0.069362	0.041338
2	3	-0.102839	-0.006368

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.29734177	
THSm2.2	5.26386395	0.4987
mCC	5.36670334	0.2177

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	5.297342	5.218101	5.376582
THSm2.2	5.263864	5.206685	5.321043
mCC	5.366703	5.288734	5.444673

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.033478	-0.130996	0.064040
3 1	0.069362	-0.041338	0.180061

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	15.42666325	3.08533265	49.25	<.0001
Error	154	9.64658237	0.06264015		
Corrected Total	159	25.07324562			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.615264	4.831148	0.250280	5.180552

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.62010346	14.62010346	233.40	<.0001
SEX	1	0.74596559	0.74596559	11.91	0.0007
UCPDGR1	1	0.00104678	0.00104678	0.02	0.8973
TRTP	2	0.05954742	0.02977371	0.48	0.6226

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	14.63076411	14.63076411	233.57	<.0001
SEX	1	0.73189702	0.73189702	11.68	0.0008
UCPDGR1	1	0.00152410	0.00152410	0.02	0.8762
TRTP	2	0.05954742	0.02977371	0.48	0.6226

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.16906200	0.5597
<b>THSm2.2</b>	5.15441894	0.3315
<b>mCC</b>	5.20143867	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.169062	5.090736 5.247388
<b>THSm2.2</b>	5.154419	5.097900 5.210938
<b>mCC</b>	5.201439	5.124369 5.278508

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.032377	-0.141798	0.077045
<b>2 3</b>	-0.047020	-0.142378	0.048339

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.16906200	
THSm2.2	5.15441894	0.7645
mCC	5.20143867	0.5597

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.169062	5.090736 5.247388
THSm2.2	5.154419	5.097900 5.210938
mCC	5.201439	5.124369 5.278508

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.014643	-0.111035 0.081749
3	1	0.032377	-0.077045 0.141798

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	17.65681008	3.53136202	98.61	<.0001
Error	154	5.51487995	0.03581091		
Corrected Total	159	23.17169003			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.761999	3.625579	0.189238	5.219516

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	17.29460721	17.29460721	482.94	<.0001
SEX	1	0.00174872	0.00174872	0.05	0.8254
UCPDGR1	1	0.02637705	0.02637705	0.74	0.3921
TRTP	2	0.33407710	0.16703855	4.66	0.0108

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	17.48497943	17.48497943	488.26	<.0001
SEX	1	0.00029115	0.00029115	0.01	0.9283
UCPDGR1	1	0.03151273	0.03151273	0.88	0.3497
TRTP	2	0.33407710	0.16703855	4.66	0.0108

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.19065045	0.0121
<b>THSm2.2</b>	5.19360660	0.0052
<b>mCC</b>	5.29702701	

<b>LOGAVAL 95% Confidence</b>			
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>	
<b>SA</b>	5.190650	5.131428	5.249873
<b>THSm2.2</b>	5.193607	5.150872	5.236341
<b>mCC</b>	5.297027	5.238754	5.355300

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.106377	-0.189111	-0.023642
<b>2 3</b>	-0.103420	-0.175521	-0.031320

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: ICAM1, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.19065045	
THSm2.2	5.19360660	0.9362
mCC	5.29702701	0.0121

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	5.190650	5.131428	5.249873
THSm2.2	5.193607	5.150872	5.236341
mCC	5.297027	5.238754	5.355300

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	0.002956	-0.069926	0.075839
3 1	0.106377	0.023642	0.189111

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.52591242	0.10518248	25.67	<.0001
Error	154	0.63104341	0.00409768		
Corrected Total	159	1.15695584			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.454566	1.420212	0.064013	4.507295

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.48676720	0.48676720	118.79	<.0001
SEX	1	0.03206054	0.03206054	7.82	0.0058
UCPDGR1	1	0.00000561	0.00000561	0.00	0.9705
TRTP	2	0.00707907	0.00353954	0.86	0.4236

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.50150674	0.50150674	122.39	<.0001
SEX	1	0.03196993	0.03196993	7.80	0.0059
UCPDGR1	1	0.00002562	0.00002562	0.01	0.9371
TRTP	2	0.00707907	0.00353954	0.86	0.4236

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.51360947	0.7593
THSm2.2	4.50288296	0.2211
mCC	4.51795430	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.513609	4.493578 4.533641
THSm2.2	4.502883	4.488465 4.517301
mCC	4.517954	4.498314 4.537595

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.004345	-0.032312	0.023622
2 3	-0.015071	-0.039305	0.009163

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.51360947	
THSm2.2	4.50288296	0.3904
mCC	4.51795430	0.7593

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.513609	4.493578 4.533641
THSm2.2	4.502883	4.488465 4.517301
mCC	4.517954	4.498314 4.537595

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.010727	-0.035327 0.013874
3	1	0.004345	-0.023622 0.032312

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.39329846	0.07865969	21.46	<.0001
Error	154	0.56458180	0.00366612		
Corrected Total	159	0.95788025			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.410593	1.345940	0.060548	4.498599

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.34149425	0.34149425	93.15	<.0001
SEX	1	0.00906135	0.00906135	2.47	0.1180
UCPDGR1	1	0.00012443	0.00012443	0.03	0.8541
TRTP	2	0.04261842	0.02130921	5.81	0.0037

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.28730785	0.28730785	78.37	<.0001
SEX	1	0.00808049	0.00808049	2.20	0.1397
UCPDGR1	1	0.00004048	0.00004048	0.01	0.9165
TRTP	2	0.04261842	0.02130921	5.81	0.0037

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.47485275	0.0008
<b>THSm2.2</b>	4.49667825	0.0421
<b>mCC</b>	4.52046139	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.474853	4.455905 4.493800
<b>THSm2.2</b>	4.496678	4.483040 4.510316
<b>mCC</b>	4.520461	4.501884 4.539039

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.045609	-0.072062	-0.019155
<b>2 3</b>	-0.023783	-0.046706	-0.000861

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.47485275	
THSm2.2	4.49667825	0.0658
mCC	4.52046139	0.0008

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.474853	4.455905 4.493800
THSm2.2	4.496678	4.483040 4.510316
mCC	4.520461	4.501884 4.539039

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.021825	-0.001444 0.045095
3	1	0.045609	0.019155 0.072062

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 91/Discharge Ambulatory Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 91/Discharge Ambulatory Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.45805736	0.09161147	21.20	<.0001
Error	154	0.66534590	0.00432043		
Corrected Total	159	1.12340326			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.407741	1.462740	0.065730	4.493619

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.41275995	0.41275995	95.54	<.0001
SEX	1	0.00779835	0.00779835	1.80	0.1811
UCPDGR1	1	0.00309270	0.00309270	0.72	0.3988
TRTP	2	0.03440637	0.01720318	3.98	0.0206

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	0.36402957	0.36402957	84.26	<.0001
SEX	1	0.00709548	0.00709548	1.64	0.2019
UCPDGR1	1	0.00289343	0.00289343	0.67	0.4144
TRTP	2	0.03440637	0.01720318	3.98	0.0206

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 91/Discharge Ambulatory Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	4.46748247	0.0101
<b>THSm2.2</b>	4.49812532	0.5664
<b>mCC</b>	4.50536256	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	4.467482	4.446914 4.488051
<b>THSm2.2</b>	4.498125	4.483320 4.512930
<b>mCC</b>	4.505363	4.485196 4.525530

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.037880	-0.066597	-0.009163
<b>2 3</b>	-0.007237	-0.032121	0.017647

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: GLUC, Day 91/Discharge Ambulatory Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	4.46748247	
THSm2.2	4.49812532	0.0178
mCC	4.50536256	0.0101

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	4.467482	4.446914 4.488051
THSm2.2	4.498125	4.483320 4.512930
mCC	4.505363	4.485196 4.525530

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.030643	0.005383 0.055903
3	1	0.037880	0.009163 0.066597

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	45.6314932	9.1262986	10.04	<.0001
Error	154	140.0099365	0.9091554		
Corrected Total	159	185.6414297			

R-Square	Coeff	Var	Root MSE	LOGAVAL Mean
0.245804	-62.67407	0.953496	-1.521357	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	43.02813868	43.02813868	47.33	<.0001
SEX	1	2.57571302	2.57571302	2.83	0.0944
UCPDGR1	1	0.00006558	0.00006558	0.00	0.9932
TRTP	2	0.02757595	0.01378798	0.02	0.9850

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	38.31323250	38.31323250	42.14	<.0001
SEX	1	2.55675628	2.55675628	2.81	0.0956
UCPDGR1	1	0.00011352	0.00011352	0.00	0.9911
TRTP	2	0.02757595	0.01378798	0.02	0.9850

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.56047134	0.9407
THSm2.2	-1.52866844	0.9303
mCC	-1.54470413	

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.560471	-1.859088	-1.261855
THSm2.2	-1.528668	-1.743268	-1.314069
mCC	-1.544704	-1.838175	-1.251233

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.015767	-0.433855	0.402320
2 3	0.016036	-0.345527	0.377598

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.56047134	
THSm2.2	-1.52866844	0.8642
mCC	-1.54470413	0.9407

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.560471	-1.859088 -1.261855
THSm2.2	-1.528668	-1.743268 -1.314069
mCC	-1.544704	-1.838175 -1.251233

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.031803	-0.334823	0.398428
3 1	0.015767	-0.402320	0.433855

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	42.7873427	8.5574685	9.74	<.0001
Error	154	135.3644852	0.8789902		
Corrected Total	159	178.1518279			

R-Square	Coeff	Var	Root MSE	LOGAVAL Mean
0.240173	-61.37833	0.937545	-1.527485	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	39.07976752	39.07976752	44.46	<.0001
SEX	1	2.72008337	2.72008337	3.09	0.0805
UCPDGR1	1	0.54416596	0.54416596	0.62	0.4326
TRTP	2	0.44332582	0.22166291	0.25	0.7774

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	33.26286403	33.26286403	37.84	<.0001
SEX	1	2.67604958	2.67604958	3.04	0.0830
UCPDGR1	1	0.55360682	0.55360682	0.63	0.4286
TRTP	2	0.44332582	0.22166291	0.25	0.7774

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.45545312	0.6319
THSm2.2	-1.58410445	0.8733
mCC	-1.55534820	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.455453	-1.749074 -1.161832
THSm2.2	-1.584104	-1.795114 -1.373095
mCC	-1.555348	-1.843910 -1.266787

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	0.099895	-0.311198	0.510988
2 3	-0.028756	-0.384270	0.326757

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.45545312	
THSm2.2	-1.58410445	0.4819
mCC	-1.55534820	0.6319

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.455453	-1.749074 -1.161832
THSm2.2	-1.584104	-1.795114 -1.373095
mCC	-1.555348	-1.843910 -1.266787

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	-0.128651	-0.489143	0.231841
3 1	-0.099895	-0.510988	0.311198

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	34.5270420	6.9054084	6.31	<.0001
Error	154	168.5854888	1.0947110		
Corrected Total	159	203.1125307			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.169990	-75.16284	1.046284	-1.392023

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.01329555	26.01329555	23.76	<.0001
SEX	1	1.81655836	1.81655836	1.66	0.1996
UCPDGR1	1	5.82960869	5.82960869	5.33	0.0224
TRTP	2	0.86757937	0.43378969	0.40	0.6735

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	20.93116933	20.93116933	19.12	<.0001
SEX	1	1.47373889	1.47373889	1.35	0.2477
UCPDGR1	1	5.79003600	5.79003600	5.29	0.0228
TRTP	2	0.86757937	0.43378969	0.40	0.6735

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.52358051	0.5144
THSm2.2	-1.34600608	0.8979
mCC	-1.37180824	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	-1.523581	-1.851257 -1.195904
THSm2.2	-1.346006	-1.581489 -1.110523
mCC	-1.371808	-1.693838 -1.049779

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.151772	-0.610545	0.307001
2 3	0.025802	-0.370945	0.422549

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CRP, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	-1.52358051	
THSm2.2	-1.34600608	0.3846
mCC	-1.37180824	0.5144

LOGAVAL 95% Confidence			
TRTP	LSMEAN	Limits	
SA	-1.523581	-1.851257	-1.195904
THSm2.2	-1.346006	-1.581489	-1.110523
mCC	-1.371808	-1.693838	-1.049779

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.177574	-0.224729	0.579877
3 1	0.151772	-0.307001	0.610545

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	35.21145511	7.04229102	233.71	<.0001
Error	154	4.64047200	0.03013294		
Corrected Total	159	39.85192711			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.883557	7.145182	0.173588	2.429447

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	35.08835312	35.08835312	1164.45	<.0001
SEX	1	0.01111545	0.01111545	0.37	0.5445
UCPDGR1	1	0.03817960	0.03817960	1.27	0.2621
TRTP	2	0.07380693	0.03690347	1.22	0.2967

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	26.83295475	26.83295475	890.49	<.0001
SEX	1	0.00668638	0.00668638	0.22	0.6383
UCPDGR1	1	0.03664254	0.03664254	1.22	0.2719
TRTP	2	0.07380693	0.03690347	1.22	0.2967

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	2.39660366	0.4894
THSm2.2	2.44892074	0.4409
mCC	2.42320811	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	2.396604	2.342282 2.450926
THSm2.2	2.448921	2.409618 2.488224
mCC	2.423208	2.369940 2.476476

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.026604	-0.102458	0.049249
2 3	0.025713	-0.040021	0.091446

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	2.39660366	
THSm2.2	2.44892074	0.1246
mCC	2.42320811	0.4894

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	2.396604	2.342282 2.450926
THSm2.2	2.448921	2.409618 2.488224
mCC	2.423208	2.369940 2.476476

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.052317	-0.014606	0.119240
3 1	0.026604	-0.049249	0.102458

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	37.09371424	7.41874285	174.04	<.0001
Error	154	6.56434100	0.04262559		
Corrected Total	159	43.65805524			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.849642	8.660857	0.206460	2.383825

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	35.98409511	35.98409511	844.19	<.0001
SEX	1	0.98190414	0.98190414	23.04	<.0001
UCPDGR1	1	0.05242763	0.05242763	1.23	0.2691
TRTP	2	0.07528736	0.03764368	0.88	0.4156

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	23.14465528	23.14465528	542.98	<.0001
SEX	1	0.96751588	0.96751588	22.70	<.0001
UCPDGR1	1	0.04899071	0.04899071	1.15	0.2854
TRTP	2	0.07528736	0.03764368	0.88	0.4156

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.38822273	0.2470
<b>THSm2.2</b>	2.38208245	0.2375
<b>mCC</b>	2.33515219	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.388223	2.323614 2.452831
<b>THSm2.2</b>	2.382082	2.335337 2.428828
<b>mCC</b>	2.335152	2.271797 2.398507

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.053071	-0.037147	0.143288
<b>2 3</b>	0.046930	-0.031251	0.125111

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	2.38822273	
THSm2.2	2.38208245	0.8791
mCC	2.33515219	0.2470

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	2.388223	2.323614 2.452831
THSm2.2	2.382082	2.335337 2.428828
mCC	2.335152	2.271797 2.398507

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.006140	-0.085736	0.073456
3 1	-0.053071	-0.143288	0.037147

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	32.56775958	6.51355192	181.98	<.0001
Error	154	5.51221192	0.03579358		
Corrected Total	159	38.07997150			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.855246	7.626225	0.189192	2.480807

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	32.37850020	32.37850020	904.59	<.0001
SEX	1	0.14214628	0.14214628	3.97	0.0480
UCPDGR1	1	0.02888612	0.02888612	0.81	0.3704
TRTP	2	0.01822699	0.00911349	0.25	0.7755

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	23.27046919	23.27046919	650.13	<.0001
SEX	1	0.15255480	0.15255480	4.26	0.0406
UCPDGR1	1	0.02943941	0.02943941	0.82	0.3659
TRTP	2	0.01822699	0.00911349	0.25	0.7755

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.49185123	0.4849
<b>THSm2.2</b>	2.47265912	0.7808
<b>mCC</b>	2.46255109	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.491851	2.432646 2.551056
<b>THSm2.2</b>	2.472659	2.429823 2.515495
<b>mCC</b>	2.462551	2.404495 2.520607

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.029300	-0.053372	0.111972
<b>2 3</b>	0.010108	-0.061534	0.081750

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HOMOCY, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	2.49185123	
<b>THSm2.2</b>	2.47265912	0.6039
<b>mCC</b>	2.46255109	0.4849

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	2.491851	2.432646 2.551056
<b>THSm2.2</b>	2.472659	2.429823 2.515495
<b>mCC</b>	2.462551	2.404495 2.520607

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>2 1</b>	-0.019192	-0.092131	0.053747
<b>3 1</b>	-0.029300	-0.111972	0.053372

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 163

**Number of Observations Used** 150

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1.80365986	0.36073197	17.44	<.0001
Error	144	2.97885009	0.02068646		
Corrected Total	149	4.78250996			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.377137	2.554138	0.143828	5.631172

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.65855017	1.65855017	80.18	<.0001
SEX	1	0.03858444	0.03858444	1.87	0.1742
UCPDGR1	1	0.03160160	0.03160160	1.53	0.2185
TRTP	2	0.07492366	0.03746183	1.81	0.1672

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.64291460	1.64291460	79.42	<.0001
SEX	1	0.03361705	0.03361705	1.63	0.2044
UCPDGR1	1	0.02911636	0.02911636	1.41	0.2374
TRTP	2	0.07492366	0.03746183	1.81	0.1672

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.63106633	0.2529
THSm2.2	5.61516453	0.0595
mCC	5.66864234	

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.631066	5.583996 5.678136
THSm2.2	5.615165	5.581209 5.649120
mCC	5.668642	5.623819 5.713465

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.037576	-0.102280	0.027128
2 3	-0.053478	-0.109136	0.002180

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 30 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.63106633	
THSm2.2	5.61516453	0.5863
mCC	5.66864234	0.2529

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.631066	5.583996 5.678136
THSm2.2	5.615165	5.581209 5.649120
mCC	5.668642	5.623819 5.713465

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.015902	-0.073521 0.041718
3	1	0.037576	-0.027128 0.102280

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 164

**Number of Observations Used** 150

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1.47405626	0.29481125	9.61	<.0001
Error	144	4.41618224	0.03066793		
Corrected Total	149	5.89023850			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.250254	3.116439	0.175123	5.619318

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.32580103	1.32580103	43.23	<.0001
SEX	1	0.07557832	0.07557832	2.46	0.1186
UCPDGR1	1	0.02794762	0.02794762	0.91	0.3414
TRTP	2	0.04472930	0.02236465	0.73	0.4840

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.27030670	1.27030670	41.42	<.0001
SEX	1	0.06812018	0.06812018	2.22	0.1383
UCPDGR1	1	0.02827183	0.02827183	0.92	0.3386
TRTP	2	0.04472930	0.02236465	0.73	0.4840

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.64294584	0.8777
<b>THSm2.2</b>	5.60542247	0.3616
<b>mCC</b>	5.63679887	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.642946	5.585634 5.700257
<b>THSm2.2</b>	5.605422	5.564079 5.646766
<b>mCC</b>	5.636799	5.582223 5.691374

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.006147	-0.072636	0.084930
<b>2 3</b>	-0.031376	-0.099145	0.036392

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.64294584	
THSm2.2	5.60542247	0.2922
mCC	5.63679887	0.8777

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.642946	5.585634 5.700257
THSm2.2	5.605422	5.564079 5.646766
mCC	5.636799	5.582223 5.691374

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.037523	-0.107680 0.032633
3	1	-0.006147	-0.084930 0.072636

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 161

**Number of Observations Used** 150

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1.34585534	0.26917107	8.14	<.0001
Error	144	4.76415454	0.03308441		
Corrected Total	149	6.11000988			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.220271	3.232613	0.181891	5.626755

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.14743608	1.14743608	34.68	<.0001
SEX	1	0.12520080	0.12520080	3.78	0.0537
UCPDGR1	1	0.00028701	0.00028701	0.01	0.9259
TRTP	2	0.07293145	0.03646573	1.10	0.3349

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	1.05075206	1.05075206	31.76	<.0001
SEX	1	0.12554680	0.12554680	3.79	0.0534
UCPDGR1	1	0.00064522	0.00064522	0.02	0.8891
TRTP	2	0.07293145	0.03646573	1.10	0.3349

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 90 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.62335266	0.2715
<b>THSm2.2</b>	5.61789675	0.1530
<b>mCC</b>	5.66905330	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.623353	5.563826 5.682879
<b>THSm2.2</b>	5.617897	5.574955 5.660838
<b>mCC</b>	5.669053	5.612368 5.725738

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.045701	-0.127528	0.036127
<b>2 3</b>	-0.051157	-0.121544	0.019231

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: FIBRINO, Day 90 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.62335266	
THSm2.2	5.61789675	0.8826
mCC	5.66905330	0.2715

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.623353	5.563826 5.682879
THSm2.2	5.617897	5.574955 5.660838
mCC	5.669053	5.612368 5.725738

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.005456	-0.078324	0.067412
3 1	0.045701	-0.036127	0.127528

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 6/Discharge Confinement Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 6/Discharge Confinement Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5.68409301	1.13681860	140.35	<.0001
Error	154	1.24737850	0.00809986		
Corrected Total	159	6.93147152			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.820041	1.654524	0.089999	5.439585

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.53588266	5.53588266	683.45	<.0001
SEX	1	0.02058705	0.02058705	2.54	0.1129
UCPDGR1	1	0.00415747	0.00415747	0.51	0.4748
TRTP	2	0.12346583	0.06173292	7.62	0.0007

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.61821983	5.61821983	693.62	<.0001
SEX	1	0.01964753	0.01964753	2.43	0.1214
UCPDGR1	1	0.00344799	0.00344799	0.43	0.5151
TRTP	2	0.12346583	0.06173292	7.62	0.0007

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 6/Discharge Confinement Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.39719639	0.1235
<b>THSm2.2</b>	5.46447260	0.0367
<b>mCC</b>	5.42813378	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.397196	5.368834 5.425559
<b>THSm2.2</b>	5.464473	5.444191 5.484755
<b>mCC</b>	5.428134	5.400525 5.455742

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.030937	-0.070398	0.008523
<b>2 3</b>	0.036339	0.002279	0.070399

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 6/Discharge Confinement Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.39719639	
THSm2.2	5.46447260	0.0002
mCC	5.42813378	0.1235

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.397196	5.368834 5.425559
THSm2.2	5.464473	5.444191 5.484755
mCC	5.428134	5.400525 5.455742

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.067276	0.032408 0.102145
3	1	0.030937	-0.008523 0.070398

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5.04608934	1.00921787	96.48	<.0001
Error	154	1.61096335	0.01046080		
Corrected Total	159	6.65705269			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.758007	1.877260	0.102278	5.448264

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.01048879	5.01048879	478.98	<.0001
SEX	1	0.00230794	0.00230794	0.22	0.6392
UCPDGR1	1	0.01636655	0.01636655	1.56	0.2129
TRTP	2	0.01692606	0.00846303	0.81	0.4472

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	4.91782567	4.91782567	470.12	<.0001
SEX	1	0.00155573	0.00155573	0.15	0.7003
UCPDGR1	1	0.01617069	0.01617069	1.55	0.2156
TRTP	2	0.01692606	0.00846303	0.81	0.4472

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 30 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.43060759	0.3640
<b>THSm2.2</b>	5.45574841	0.8197
<b>mCC</b>	5.45127558	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.430608	5.398376 5.462840
<b>THSm2.2</b>	5.455748	5.432699 5.478797
<b>mCC</b>	5.451276	5.419900 5.482651

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.020668	-0.065512	0.024176
<b>2 3</b>	0.004473	-0.034234	0.043180

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 30 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.43060759	
<b>THSm2.2</b>	5.45574841	0.2120
<b>mCC</b>	5.45127558	0.3640

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.430608	5.398376 5.462840
<b>THSm2.2</b>	5.455748	5.432699 5.478797
<b>mCC</b>	5.451276	5.419900 5.482651

**Least Squares Means for Effect**

<b>TRTP</b>			
		<b>Difference</b>	<b>95% Confidence</b>
		<b>Between</b>	<b>Limits for</b>
<b>i</b>	<b>j</b>	<b>Means LSMean(i)-LSMean(j)</b>	
<b>2</b>	<b>1</b>	0.025141	-0.014485 0.064767
<b>3</b>	<b>1</b>	0.020668	-0.024176 0.065512

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	3.95341282	0.79068256	37.92	<.0001
Error	154	3.21112047	0.02085143		
Corrected Total	159	7.16453329			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.551803	2.633719	0.144400	5.482752

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.89277718	3.89277718	186.69	<.0001
SEX	1	0.01445509	0.01445509	0.69	0.4064
UCPDGR1	1	0.00837298	0.00837298	0.40	0.5272
TRTP	2	0.03780758	0.01890379	0.91	0.4060

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.73393519	3.73393519	179.07	<.0001
SEX	1	0.01505787	0.01505787	0.72	0.3968
UCPDGR1	1	0.00743183	0.00743183	0.36	0.5514
TRTP	2	0.03780758	0.01890379	0.91	0.4060

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 60 Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.47259940	0.8586
<b>THSm2.2</b>	5.50026320	0.2294
<b>mCC</b>	5.46688116	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.472599	5.427093 5.518106
<b>THSm2.2</b>	5.500263	5.467722 5.532805
<b>mCC</b>	5.466881	5.422584 5.511178

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	0.005718	-0.057594	0.069031
<b>2 3</b>	0.033382	-0.021266	0.088030

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 60 Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.47259940	
THSm2.2	5.50026320	0.3302
mCC	5.46688116	0.8586

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.472599	5.427093 5.518106
THSm2.2	5.500263	5.467722 5.532805
mCC	5.466881	5.422584 5.511178

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	0.027664	-0.028281 0.083609
3	1	-0.005718	-0.069031 0.057594

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 91/Discharge Ambulatory Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 91/Discharge Ambulatory Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	3.50445483	0.70089097	36.28	<.0001
Error	154	2.97492170	0.01931767		
Corrected Total	159	6.47937653			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.540863	2.528373	0.138988	5.497134

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	3.19980683	3.19980683	165.64	<.0001
SEX	1	0.20791004	0.20791004	10.76	0.0013
UCPDGR1	1	0.00189028	0.00189028	0.10	0.7548
TRTP	2	0.09484768	0.04742384	2.45	0.0892

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	2.97292323	2.97292323	153.90	<.0001
SEX	1	0.20845148	0.20845148	10.79	0.0013
UCPDGR1	1	0.00144970	0.00144970	0.08	0.7845
TRTP	2	0.09484768	0.04742384	2.45	0.0892

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 91/Discharge Ambulatory Model: GLM, Method: Log

**Least Squares Means**

<b>LOGAVAL H0:LSMean=Control</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Pr &gt;  t </b>
<b>SA</b>	5.46808096	0.4351
<b>THSm2.2</b>	5.52636772	0.2016
<b>mCC</b>	5.49222091	

<b>LOGAVAL 95% Confidence</b>		
<b>TRTP</b>	<b>LSMEAN</b>	<b>Limits</b>
<b>SA</b>	5.468081	5.424280 5.511882
<b>THSm2.2</b>	5.526368	5.495046 5.557690
<b>mCC</b>	5.492221	5.449584 5.534857

**Least Squares Means for Effect**

<b>TRTP</b>			
<b>Difference</b>		<b>95% Confidence</b>	
<b>Between</b>		<b>Limits for</b>	
<b>i j</b>	<b>Means LSMean(i)-LSMean(j)</b>		
<b>1 3</b>	-0.024140	-0.085079	0.036799
<b>2 3</b>	0.034147	-0.018453	0.086747

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: PLAT, Day 91/Discharge Ambulatory Model: GLM, Method: Log

**Least Squares Means**

LOGAVAL H0:LSMean=Control		
TRTP	LSMEAN	Pr >  t
SA	5.46808096	
THSm2.2	5.52636772	0.0341
mCC	5.49222091	0.4351

LOGAVAL 95% Confidence		
TRTP	LSMEAN	Limits
SA	5.468081	5.424280 5.511882
THSm2.2	5.526368	5.495046 5.557690
mCC	5.492221	5.449584 5.534857

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
2 1	0.058287	0.004438	0.112135
3 1	0.024140	-0.036799	0.085079

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	426760.3090	85352.0618	50.04	<.0001
Error	154	262692.6848	1705.7967		
Corrected Total	159	689452.9938			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.618984	29.12516	41.30129	141.8063

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	422164.8876	422164.8876	247.49	<.0001
SEX	1	2018.7127	2018.7127	1.18	0.2784
UCPDGR1	1	1634.8472	1634.8472	0.96	0.3291
TRTP	2	941.8616	470.9308	0.28	0.7591

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	350660.9019	350660.9019	205.57	<.0001
SEX	1	1737.4853	1737.4853	1.02	0.3144
UCPDGR1	1	1605.7823	1605.7823	0.94	0.3334
TRTP	2	941.8616	470.9308	0.28	0.7591

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	145.074550	0.4589
THSm2.2	141.287791	0.7026
mCC	138.247926	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	145.074550	131.876380	158.272721
THSm2.2	141.287791	131.941257	150.634325
mCC	138.247926	125.565023	150.930828

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	6.826625	-11.334171	24.987421
2 3	3.039865	-12.661628	18.741359

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	145.074550	
THSm2.2	141.287791	0.6467
mCC	138.247926	0.4589

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	145.074550	131.876380	158.272721
THSm2.2	141.287791	131.941257	150.634325
mCC	138.247926	125.565023	150.930828

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-3.786759	-20.075337 12.501819
3	1	-6.826625	-24.987421 11.334171

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	343236.2318	68647.2464	37.99	<.0001
Error	154	278305.6682	1807.1797		
Corrected Total	159	621541.9000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.552233	30.25151	42.51094	140.5250

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	331370.0321	331370.0321	183.36	<.0001
SEX	1	6085.9900	6085.9900	3.37	0.0684
UCPDGR1	1	561.5446	561.5446	0.31	0.5780
TRTP	2	5218.6651	2609.3326	1.44	0.2392

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	265847.8078	265847.8078	147.11	<.0001
SEX	1	5283.9655	5283.9655	2.92	0.0893
UCPDGR1	1	683.9290	683.9290	0.38	0.5393
TRTP	2	5218.6651	2609.3326	1.44	0.2392

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	139.484737	0.3260
THSm2.2	134.918977	0.0916
mCC	148.809040	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	139.484737	125.900015 153.069460
THSm2.2	134.918977	125.298699 144.539254
mCC	148.809040	135.754677 161.863403

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-9.324303	-28.016998	9.368391
2 3	-13.890064	-30.051427	2.271300

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	139.484737	
THSm2.2	134.918977	0.5914
mCC	148.809040	0.3260

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	139.484737	125.900015 153.069460
THSm2.2	134.918977	125.298699 144.539254
mCC	148.809040	135.754677 161.863403

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-4.565761	-21.331403 12.199882
3	1	9.324303	-9.368391 28.016998

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL      Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	572806.3036	114561.2607	77.85	<.0001
Error	154	226618.0714	1471.5459		
Corrected Total	159	799424.3750			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.716523	27.86072	38.36073	137.6875

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	543246.3097	543246.3097	369.17	<.0001
SEX	1	8279.4921	8279.4921	5.63	0.0189
UCPDGR1	1	12198.8569	12198.8569	8.29	0.0046
TRTP	2	9081.6449	4540.8225	3.09	0.0485

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	461709.6942	461709.6942	313.76	<.0001
SEX	1	6094.0820	6094.0820	4.14	0.0436
UCPDGR1	1	12576.4634	12576.4634	8.55	0.0040
TRTP	2	9081.6449	4540.8225	3.09	0.0485

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	149.873261	0.1243
THSm2.2	130.864417	0.4323
mCC	136.676827	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	149.873261	137.614769 162.131752
THSm2.2	130.864417	122.183335 139.545499
mCC	136.676827	124.896919 148.456736

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	13.196433	-3.671356	30.064222
2 3	-5.812410	-20.395994	8.771173

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: TRIG, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	149.873261	
THSm2.2	130.864417	0.0141
mCC	136.676827	0.1243

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	149.873261	137.614769 162.131752
THSm2.2	130.864417	122.183335 139.545499
mCC	136.676827	124.896919 148.456736

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-19.008843	-34.137712 -3.879975
3	1	-13.196433	-30.064222 3.671356

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	123134.8150	24626.9630	74.40	<.0001
Error	154	50977.9600	331.0257		
Corrected Total	159	174112.7750			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.707213	9.437392	18.19411	192.7875

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	121337.2324	121337.2324	366.55	<.0001
SEX	1	413.4643	413.4643	1.25	0.2655
UCPDGR1	1	1.2040	1.2040	0.00	0.9520
TRTP	2	1382.9143	691.4571	2.09	0.1273

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	119986.8191	119986.8191	362.47	<.0001
SEX	1	369.2237	369.2237	1.12	0.2926
UCPDGR1	1	1.3081	1.3081	0.00	0.9500
TRTP	2	1382.9143	691.4571	2.09	0.1273

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	197.113719	0.0432
THSm2.2	193.185278	0.2094
mCC	188.791758	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	197.113719	191.338373 202.889065
THSm2.2	193.185278	189.084466 197.286090
mCC	188.791758	183.196475 194.387041

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	8.321961	0.258357 16.385565
2	3	4.393520	-2.491519 11.278559

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	197.113719	
THSm2.2	193.185278	0.2756
mCC	188.791758	0.0432

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	197.113719	191.338373 202.889065
THSm2.2	193.185278	189.084466 197.286090
mCC	188.791758	183.196475 194.387041

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-3.928441	-11.021877 3.164995
3	1	-8.321961	-16.385565 -0.258357

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	132772.9623	26554.5925	60.61	<.0001
Error	154	67472.7814	438.1349		
Corrected Total	159	200245.7438			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.663050	10.83525	20.93167	193.1813

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	128347.8912	128347.8912	292.94	<.0001
SEX	1	2865.3229	2865.3229	6.54	0.0115
UCPDGR1	1	3.6481	3.6481	0.01	0.9274
TRTP	2	1556.1000	778.0500	1.78	0.1728

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	128729.8645	128729.8645	293.81	<.0001
SEX	1	2756.9905	2756.9905	6.29	0.0132
UCPDGR1	1	5.1905	5.1905	0.01	0.9135
TRTP	2	1556.1000	778.0500	1.78	0.1728

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	199.021488	0.0702
THSm2.2	192.966933	0.5324
mCC	190.458045	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	199.021488	192.377159 205.665816
THSm2.2	192.966933	188.249095 197.684770
mCC	190.458045	184.020873 196.895217

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	8.563443	-0.713444	17.840330
2 3	2.508888	-5.412102	10.429878

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	199.021488	
THSm2.2	192.966933	0.1448
mCC	190.458045	0.0702

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	199.021488	192.377159 205.665816
THSm2.2	192.966933	188.249095 197.684770
mCC	190.458045	184.020873 196.895217

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-6.054555	-14.215299 2.106189
3	1	-8.563443	-17.840330 0.713444

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	109579.7956	21915.9591	43.99	<.0001
Error	154	76722.1044	498.1955		
Corrected Total	159	186301.9000			

R-Square	Coeff	Var	Root MSE	AVAL	Mean
0.588184	11.77697	22.32029	189.5250		

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	106405.4976	106405.4976	213.58	<.0001
SEX	1	576.0574	576.0574	1.16	0.2839
UCPDGR1	1	639.9139	639.9139	1.28	0.2588
TRTP	2	1958.3266	979.1633	1.97	0.1436

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	105374.2218	105374.2218	211.51	<.0001
SEX	1	455.8842	455.8842	0.92	0.3403
UCPDGR1	1	601.5994	601.5994	1.21	0.2735
TRTP	2	1958.3266	979.1633	1.97	0.1436

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	195.837960	0.0858
THSm2.2	187.876877	0.8706
mCC	187.179037	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	195.837960	188.752842 202.923077
THSm2.2	187.876877	182.846056 192.907699
mCC	187.179037	180.314819 194.043255

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	8.658923	-1.233399 18.551244
2	3	0.697840	-7.748633 9.144313

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: CHOL, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	195.837960	
THSm2.2	187.876877	0.0727
mCC	187.179037	0.0858

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	195.837960	188.752842 202.923077
THSm2.2	187.876877	182.846056 192.907699
mCC	187.179037	180.314819 194.043255

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-7.961082	-16.663215 0.741050
3	1	-8.658923	-18.551244 1.233399

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HBA1C, Day 90 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HBA1C, Day 90 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	11.61412737	2.32282547	66.52	<.0001
Error	154	5.37781013	0.03492085		
Corrected Total	159	16.99193750			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.683508	3.614093	0.186871	5.170625

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	11.56657611	11.56657611	331.22	<.0001
SEX	1	0.00026490	0.00026490	0.01	0.9307
UCPDGR1	1	0.01434859	0.01434859	0.41	0.5225
TRTP	2	0.03293778	0.01646889	0.47	0.6249

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	11.43377453	11.43377453	327.42	<.0001
SEX	1	0.00003304	0.00003304	0.00	0.9755
UCPDGR1	1	0.01350236	0.01350236	0.39	0.5350
TRTP	2	0.03293778	0.01646889	0.47	0.6249

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HBA1C, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.15042022	0.7236
THSm2.2	5.18478939	0.5836
mCC	5.16505580	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	5.150420	5.091896	5.208944
THSm2.2	5.184789	5.142596	5.226983
mCC	5.165056	5.107661	5.222451

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.014636	-0.096252	0.066980
2 3	0.019734	-0.051232	0.090699

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HBA1C, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.15042022	
THSm2.2	5.18478939	0.3476
mCC	5.16505580	0.7236

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.150420	5.091896 5.208944
THSm2.2	5.184789	5.142596 5.226983
mCC	5.165056	5.107661 5.222451

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	0.034369	-0.037691 0.106429
3	1	0.014636	-0.066980 0.096252

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	23882.69845	4776.53969	83.39	<.0001
Error	154	8821.14530	57.28016		
Corrected Total	159	32703.84375			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.730272	12.72663	7.568366	59.46875

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	23456.18795	23456.18795	409.50	<.0001
SEX	1	6.71545	6.71545	0.12	0.7325
UCPDGR1	1	11.16546	11.16546	0.19	0.6595
TRTP	2	408.62960	204.31480	3.57	0.0306

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	19601.33437	19601.33437	342.20	<.0001
SEX	1	2.61351	2.61351	0.05	0.8311
UCPDGR1	1	8.66192	8.66192	0.15	0.6979
TRTP	2	408.62960	204.31480	3.57	0.0306

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	61.0097241	0.0147
THSm2.2	60.1382598	0.0272
mCC	56.8825375	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	61.009724	58.631462 63.387986
THSm2.2	60.138260	58.431766 61.844754
mCC	56.882537	54.548462 59.216613

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	4.127187	0.821661	7.432712
2 3	3.255722	0.372083	6.139361

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	61.0097241	
THSm2.2	60.1382598	0.5572
mCC	56.8825375	0.0147

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	61.009724	58.631462 63.387986
THSm2.2	60.138260	58.431766 61.844754
mCC	56.882537	54.548462 59.216613

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.871464	-3.797976 2.055047
3	1	-4.127187	-7.432712 -0.821661

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	29270.79547	5854.15909	89.34	<.0001
Error	154	10090.97953	65.52584		
Corrected Total	159	39361.77500			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.743635	13.37155	8.094803	60.53750

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	28178.23449	28178.23449	430.03	<.0001
SEX	1	254.58877	254.58877	3.89	0.0505
UCPDGR1	1	14.46810	14.46810	0.22	0.6391
TRTP	2	823.50410	411.75205	6.28	0.0024

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	22239.76964	22239.76964	339.40	<.0001
SEX	1	209.68652	209.68652	3.20	0.0756
UCPDGR1	1	10.47426	10.47426	0.16	0.6898
TRTP	2	823.50410	411.75205	6.28	0.0024

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	62.6887918	0.0017
THSm2.2	61.7640204	0.0026
mCC	56.9771063	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	62.688792	60.145104 65.232480
THSm2.2	61.764020	59.938827 63.589214
mCC	56.977106	54.480678 59.473535

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	5.711685	2.176236	9.247135
2 3	4.786914	1.702696	7.871132

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	62.6887918	
THSm2.2	61.7640204	0.5603
mCC	56.9771063	0.0017

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	62.688792	60.145104 65.232480
THSm2.2	61.764020	59.938827 63.589214
mCC	56.977106	54.480678 59.473535

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.924771	-4.054844 2.205301
3	1	-5.711685	-9.247135 -2.176236

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 90 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 90 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	29314.03999	5862.80800	77.39	<.0001
Error	154	11666.55376	75.75684		
Corrected Total	159	40980.59375			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.715315	14.36425	8.703841	60.59375

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	27819.55108	27819.55108	367.22	<.0001
SEX	1	529.08445	529.08445	6.98	0.0091
UCPDGR1	1	156.85313	156.85313	2.07	0.1522
TRTP	2	808.55133	404.27566	5.34	0.0057

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	20541.87747	20541.87747	271.16	<.0001
SEX	1	458.95624	458.95624	6.06	0.0149
UCPDGR1	1	170.95846	170.95846	2.26	0.1351
TRTP	2	808.55133	404.27566	5.34	0.0057

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.2030225	0.0022
THSm2.2	61.5369083	0.0111
mCC	57.2195416	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.203022	60.467952 65.938093
THSm2.2	61.536908	59.574390 63.499426
mCC	57.219542	54.535287 59.903796

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	5.983481	2.182030	9.784931
2 3	4.317367	1.001098	7.633635

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: HDL, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.2030225	
THSm2.2	61.5369083	0.3296
mCC	57.2195416	0.0022

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.203022	60.467952 65.938093
THSm2.2	61.536908	59.574390 63.499426
mCC	57.219542	54.535287 59.903796

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-1.666114	-5.031688 1.699459
3	1	-5.983481	-9.784931 -2.182030

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	116718.8255	23343.7651	95.37	<.0001
Error	154	37696.2745	244.7810		
Corrected Total	159	154415.1000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.755877	13.74520	15.64548	113.8250

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	115882.8954	115882.8954	473.41	<.0001
SEX	1	178.7760	178.7760	0.73	0.3941
UCPDGR1	1	86.7434	86.7434	0.35	0.5525
TRTP	2	570.4106	285.2053	1.17	0.3146

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	113382.5567	113382.5567	463.20	<.0001
SEX	1	213.6658	213.6658	0.87	0.3516
UCPDGR1	1	88.3408	88.3408	0.36	0.5489
TRTP	2	570.4106	285.2053	1.17	0.3146

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	116.463956	0.1295
THSm2.2	113.481745	0.4351
mCC	111.137013	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	116.463956	111.514110 121.413801
THSm2.2	113.481745	109.954813 117.008678
mCC	111.137013	106.330959 115.943067

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	5.326942	-1.577024	12.230909
2 3	2.344732	-3.574173	8.263637

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	116.463956	
THSm2.2	113.481745	0.3345
mCC	111.137013	0.1295

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	116.463956	111.514110 121.413801
THSm2.2	113.481745	109.954813 117.008678
mCC	111.137013	106.330959 115.943067

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-2.982210	-9.066878 3.102458
3	1	-5.326942	-12.230909 1.577024

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	122163.1326	24432.6265	73.59	<.0001
Error	154	51129.6424	332.0107		
Corrected Total	159	173292.7750			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.704952	16.13742	18.22116	112.9125

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	120892.7934	120892.7934	364.12	<.0001
SEX	1	390.5995	390.5995	1.18	0.2798
UCPDGR1	1	0.3378	0.3378	0.00	0.9746
TRTP	2	879.4019	439.7009	1.32	0.2690

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	120043.3936	120043.3936	361.56	<.0001
SEX	1	353.7534	353.7534	1.07	0.3036
UCPDGR1	1	0.3441	0.3441	0.00	0.9744
TRTP	2	879.4019	439.7009	1.32	0.2690

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	116.893383	0.1107
THSm2.2	112.703082	0.5034
mCC	110.362808	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	116.893383	111.128655 122.658111
THSm2.2	112.703082	108.595518 116.810646
mCC	110.362808	104.765544 115.960072

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	6.530576	-1.509976	14.571127
2 3	2.340274	-4.553047	9.233595

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	116.893383	
THSm2.2	112.703082	0.2446
mCC	110.362808	0.1107

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	116.893383	111.128655 122.658111
THSm2.2	112.703082	108.595518 116.810646
mCC	110.362808	104.765544 115.960072

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-4.190301	-11.276675 2.896072
3	1	-6.530576	-14.571127 1.509976

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 90 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 90 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	106596.6988	21319.3398	58.99	<.0001
Error	154	55659.2012	361.4234		
Corrected Total	159	162255.9000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.656967	17.05417	19.01114	111.4750

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	104137.9576	104137.9576	288.13	<.0001
SEX	1	797.9782	797.9782	2.21	0.1394
UCPDGR1	1	763.1645	763.1645	2.11	0.1482
TRTP	2	897.5986	448.7993	1.24	0.2918

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	102519.9772	102519.9772	283.66	<.0001
SEX	1	665.5772	665.5772	1.84	0.1768
UCPDGR1	1	738.8879	738.8879	2.04	0.1548
TRTP	2	897.5986	448.7993	1.24	0.2918

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	115.833201	0.2098
THSm2.2	110.187238	0.9348
mCC	110.485443	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	115.833201	109.818543 121.847859
THSm2.2	110.187238	105.901590 114.472885
mCC	110.485443	104.645509 116.325376

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	5.347758	-3.041392	13.736908
2 3	-0.298205	-7.490386	6.893976

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LDL, Day 90 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	115.833201	
THSm2.2	110.187238	0.1335
mCC	110.485443	0.2098

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	115.833201	109.818543 121.847859
THSm2.2	110.187238	105.901590 114.472885
mCC	110.485443	104.645509 116.325376

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-5.645963	-13.039567 1.747640
3	1	-5.347758	-13.736908 3.041392

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	150.3152242	30.0630448	31.72	<.0001
Error	154	145.9338158	0.9476222		
Corrected Total	159	296.2490400			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.507395	15.90229	0.973459	6.121500

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	139.6435878	139.6435878	147.36	<.0001
SEX	1	0.3285433	0.3285433	0.35	0.5568
UCPDGR1	1	0.2004590	0.2004590	0.21	0.6462
TRTP	2	10.1426341	5.0713170	5.35	0.0057

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	147.9968419	147.9968419	156.18	<.0001
SEX	1	0.5006928	0.5006928	0.53	0.4684
UCPDGR1	1	0.2687045	0.2687045	0.28	0.5951
TRTP	2	10.1426341	5.0713170	5.35	0.0057

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.68320714	0.0066
THSm2.2	6.27070381	0.9326
mCC	6.28651491	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.683207	5.374397 5.992017
THSm2.2	6.270704	6.051211 6.490197
mCC	6.286515	5.986452 6.586578

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.603308	-1.035997	-0.170618
2 3	-0.015811	-0.384422	0.352800

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.68320714	
THSm2.2	6.27070381	0.0026
mCC	6.28651491	0.0066

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	5.683207	5.374397	5.992017
THSm2.2	6.270704	6.051211	6.490197
mCC	6.286515	5.986452	6.586578

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.587497	0.207921 0.967072
3	1	0.603308	0.170618 1.035997

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	109.1562032	21.8312406	20.31	<.0001
Error	154	165.5280162	1.0748572		
Corrected Total	159	274.6842194			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.397388	17.92470	1.036753	5.783938

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	107.2889529	107.2889529	99.82	<.0001
SEX	1	0.0022167	0.0022167	0.00	0.9638
UCPDGR1	1	0.3183163	0.3183163	0.30	0.5871
TRTP	2	1.5467173	0.7733586	0.72	0.4886

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	99.98450239	99.98450239	93.02	<.0001
SEX	1	0.00936496	0.00936496	0.01	0.9258
UCPDGR1	1	0.35397779	0.35397779	0.33	0.5669
TRTP	2	1.54671726	0.77335863	0.72	0.4886

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.79340316	0.5297
THSm2.2	5.70215504	0.2326
mCC	5.94032036	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.793403	5.464514 6.122292
THSm2.2	5.702155	5.468391 5.935919
mCC	5.940320	5.620747 6.259894

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.146917	-0.607740	0.313906
2 3	-0.238165	-0.630743	0.154413

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.79340316	
THSm2.2	5.70215504	0.6563
mCC	5.94032036	0.5297

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.793403	5.464514 6.122292
THSm2.2	5.702155	5.468391 5.935919
mCC	5.940320	5.620747 6.259894

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	-0.091248	-0.495503 0.313007
3	1	0.146917	-0.313906 0.607740

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	99.9930926	19.9986185	12.50	<.0001
Error	154	246.3719074	1.5998176		
Corrected Total	159	346.3650000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.288693	21.78878	1.264839	5.805000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	98.06868243	98.06868243	61.30	<.0001
SEX	1	0.01345304	0.01345304	0.01	0.9271
UCPDGR1	1	0.10114726	0.10114726	0.06	0.8018
TRTP	2	1.80980987	0.90490493	0.57	0.5692

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	93.51347589	93.51347589	58.45	<.0001
SEX	1	0.01577373	0.01577373	0.01	0.9210
UCPDGR1	1	0.08040852	0.08040852	0.05	0.8229
TRTP	2	1.80980987	0.90490493	0.57	0.5692

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.81620769	0.5921
THSm2.2	5.71172420	0.2902
mCC	5.96901696	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.816208	5.414963 6.217452
THSm2.2	5.711724	5.426532 5.996917
mCC	5.969017	5.579138 6.358896

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.152809	-0.715013	0.409395
2 3	-0.257293	-0.736238	0.221653

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.81620769	
THSm2.2	5.71172420	0.6762
mCC	5.96901696	0.5921

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.816208	5.414963 6.217452
THSm2.2	5.711724	5.426532 5.996917
mCC	5.969017	5.579138 6.358896

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.104483	-0.597675 0.388708
3	1	0.152809	-0.409395 0.715013

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	90.6021131	18.1204226	11.78	<.0001
Error	154	236.9768769	1.5388109		
Corrected Total	159	327.5789900			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.276581	21.20583	1.240488	5.849750

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	83.40421597	83.40421597	54.20	<.0001
SEX	1	0.90595670	0.90595670	0.59	0.4441
UCPDGR1	1	0.50806296	0.50806296	0.33	0.5664
TRTP	2	5.78387748	2.89193874	1.88	0.1562

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	77.42614526	77.42614526	50.32	<.0001
SEX	1	0.73153765	0.73153765	0.48	0.4916
UCPDGR1	1	0.58537616	0.58537616	0.38	0.5383
TRTP	2	5.78387748	2.89193874	1.88	0.1562

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.80988535	0.2224
THSm2.2	5.69261488	0.0553
mCC	6.15180941	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.809885	5.416366 6.203405
THSm2.2	5.692615	5.412913 5.972317
mCC	6.151809	5.769436 6.534183

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.341924	-0.893304	0.209456
2 3	-0.459195	-0.928919	0.010530

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: WBC, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	5.80988535	
THSm2.2	5.69261488	0.6327
mCC	6.15180941	0.2224

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	5.809885	5.416366 6.203405
THSm2.2	5.692615	5.412913 5.972317
mCC	6.151809	5.769436 6.534183

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.117270	-0.600967 0.366426
3	1	0.341924	-0.209456 0.893304

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL      Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	97.6893593	19.5378719	28.73	<.0001
Error	154	104.7107507	0.6799399		
Corrected Total	159	202.4001100			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.482655	23.68305	0.824585	3.481750

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	94.21677333	94.21677333	138.57	<.0001
SEX	1	0.30617468	0.30617468	0.45	0.5032
UCPDGR1	1	0.75693163	0.75693163	1.11	0.2930
TRTP	2	2.40947968	1.20473984	1.77	0.1735

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	95.95192985	95.95192985	141.12	<.0001
SEX	1	0.33329873	0.33329873	0.49	0.4849
UCPDGR1	1	0.74121522	0.74121522	1.09	0.2981
TRTP	2	2.40947968	1.20473984	1.77	0.1735

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.36231726	0.0823
THSm2.2	3.43987786	0.1207
mCC	3.68667359	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	3.362317	3.100998	3.623637
THSm2.2	3.439878	3.254076	3.625680
mCC	3.686674	3.432382	3.940965

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.324356	-0.690791	0.042078
2 3	-0.246796	-0.559203	0.065612

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.36231726	
THSm2.2	3.43987786	0.6337
mCC	3.68667359	0.0823

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.362317	3.100998 3.623637
THSm2.2	3.439878	3.254076 3.625680
mCC	3.686674	3.432382 3.940965

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.077561	-0.243330 0.398451
3	1	0.324356	-0.042078 0.690791

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	54.7363356	10.9472671	12.64	<.0001
Error	154	133.4227838	0.8663817		
Corrected Total	159	188.1591194			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.290905	29.42822	0.930796	3.162938

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	52.40045391	52.40045391	60.48	<.0001
SEX	1	1.07615814	1.07615814	1.24	0.2668
UCPDGR1	1	0.05961813	0.05961813	0.07	0.7934
TRTP	2	1.20010541	0.60005271	0.69	0.5018

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	49.39427489	49.39427489	57.01	<.0001
SEX	1	1.09189787	1.09189787	1.26	0.2633
UCPDGR1	1	0.07692450	0.07692450	0.09	0.7661
TRTP	2	1.20010541	0.60005271	0.69	0.5018

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.24597345	0.8915
THSm2.2	3.08838293	0.2986
mCC	3.27457356	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.245973	2.950994 3.540953
THSm2.2	3.088383	2.878649 3.298117
mCC	3.274574	2.987528 3.561619

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.028600	-0.442233	0.385033
2 3	-0.186191	-0.538838	0.166457

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.24597345	
THSm2.2	3.08838293	0.3914
mCC	3.27457356	0.8915

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.245973	2.950994 3.540953
THSm2.2	3.088383	2.878649 3.298117
mCC	3.274574	2.987528 3.561619

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.157591	-0.519813 0.204632
3	1	0.028600	-0.385033 0.442233

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	50.9307671	10.1861534	8.15	<.0001
Error	154	192.5881104	1.2505721		
Corrected Total	159	243.5188775			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.209145	34.86892	1.118290	3.207125

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	49.12866424	49.12866424	39.28	<.0001
SEX	1	0.00364645	0.00364645	0.00	0.9570
UCPDGR1	1	0.00439275	0.00439275	0.00	0.9528
TRTP	2	1.79406370	0.89703185	0.72	0.4897

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	47.33365071	47.33365071	37.85	<.0001
SEX	1	0.00932952	0.00932952	0.01	0.9313
UCPDGR1	1	0.00878849	0.00878849	0.01	0.9333
TRTP	2	1.79406370	0.89703185	0.72	0.4897

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.19316624	0.4579
THSm2.2	3.12415935	0.2341
mCC	3.38036683	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.193166	2.838768 3.547564
THSm2.2	3.124159	2.872178 3.376141
mCC	3.380367	3.035500 3.725233

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.187201	-0.684153	0.309752
2 3	-0.256207	-0.679890	0.167475

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.19316624	
THSm2.2	3.12415935	0.7545
mCC	3.38036683	0.4579

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.193166	2.838768 3.547564
THSm2.2	3.124159	2.872178 3.376141
mCC	3.380367	3.035500 3.725233

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.069007	-0.504194 0.366180
3	1	0.187201	-0.309752 0.684153

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL      Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	44.2772021	8.8554404	7.34	<.0001
Error	154	185.6786754	1.2057057		
Corrected Total	159	229.9558775			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.192547	34.33675	1.098046	3.197875

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	38.23841214	38.23841214	31.71	<.0001
SEX	1	0.45968263	0.45968263	0.38	0.5378
UCPDGR1	1	1.73790161	1.73790161	1.44	0.2318
TRTP	2	3.84120572	1.92060286	1.59	0.2067

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	35.39480970	35.39480970	29.36	<.0001
SEX	1	0.30710248	0.30710248	0.25	0.6145
UCPDGR1	1	1.82435327	1.82435327	1.51	0.2205
TRTP	2	3.84120572	1.92060286	1.59	0.2067

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.13586582	0.1974
THSm2.2	3.08826101	0.0831
mCC	3.45561323	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.135866	2.787883 3.483848
THSm2.2	3.088261	2.840841 3.335681
mCC	3.455613	3.116990 3.794237

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.319747	-0.807704	0.168210
2 3	-0.367352	-0.783365	0.048661

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: NEUT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	3.13586582	
THSm2.2	3.08826101	0.8261
mCC	3.45561323	0.1974

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	3.135866	2.787883 3.483848
THSm2.2	3.088261	2.840841 3.335681
mCC	3.455613	3.116990 3.794237

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.047605	-0.474914 0.379704
3	1	0.319747	-0.168210 0.807704

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	19.94512414	3.98902483	26.50	<.0001
Error	154	23.18038586	0.15052199		
Corrected Total	159	43.12551000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.462490	17.99706	0.387972	2.155750

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	14.71762232	14.71762232	97.78	<.0001
SEX	1	0.02691728	0.02691728	0.18	0.6730
UCPDGR1	1	0.13834320	0.13834320	0.92	0.3392
TRTP	2	5.06224134	2.53112067	16.82	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	15.37093753	15.37093753	102.12	<.0001
SEX	1	0.04951069	0.04951069	0.33	0.5671
UCPDGR1	1	0.11168080	0.11168080	0.74	0.3904
TRTP	2	5.06224134	2.53112067	16.82	<.0001

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	1.90938210	0.0500
THSm2.2	2.33137409	0.0009
mCC	2.07949012	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	1.909382	1.787727	2.031037
THSm2.2	2.331374	2.244040	2.418708
mCC	2.079490	1.960279	2.198702

**Least Squares Means for Effect TRTP**

		Difference		95% Confidence Limits	
		Between	for		
i	j	Means	LSMean(i)-LSMean(j)		
1	3	-0.170108	-0.340210	-0.000005	0.5863
2	3	0.251884	0.105022	0.398746	

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	1.90938210	
THSm2.2	2.33137409	<.0001
mCC	2.07949012	0.0500

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	1.909382	1.787727	2.031037
THSm2.2	2.331374	2.244040	2.418708
mCC	2.079490	1.960279	2.198702

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	0.421992	0.272581	0.571403
3	1	0.170108	0.000005863	0.340210

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	18.84309837	3.76861967	23.03	<.0001
Error	154	25.20074163	0.16364118		
Corrected Total	159	44.04384000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.427826	19.04996	0.404526	2.123500

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	17.95135089	17.95135089	109.70	<.0001
SEX	1	0.70814794	0.70814794	4.33	0.0392
UCPDGR1	1	0.13711140	0.13711140	0.84	0.3614
TRTP	2	0.04648815	0.02324407	0.14	0.8677

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	17.35333252	17.35333252	106.05	<.0001
SEX	1	0.65964430	0.65964430	4.03	0.0464
UCPDGR1	1	0.13589893	0.13589893	0.83	0.3636
TRTP	2	0.04648815	0.02324407	0.14	0.8677

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.08650447	0.7260
THSm2.2	2.12834530	0.8943
mCC	2.11802725	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.086504	1.959658 2.213351
THSm2.2	2.128345	2.037285 2.219405
mCC	2.118027	1.993729 2.242325

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-0.031523	-0.208883 0.145837
2	3	0.010318	-0.142810 0.163446

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.08650447	
THSm2.2	2.12834530	0.5965
mCC	2.11802725	0.7260

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.086504	1.959658 2.213351
THSm2.2	2.128345	2.037285 2.219405
mCC	2.118027	1.993729 2.242325

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.041841	-0.113945 0.197627
3	1	0.031523	-0.145837 0.208883

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.93667850	2.78733570	15.18	<.0001
Error	154	28.27883150	0.18362878		
Corrected Total	159	42.21551000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.330132	20.42270	0.428519	2.098250

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	13.59399649	13.59399649	74.03	<.0001
SEX	1	0.07715349	0.07715349	0.42	0.5178
UCPDGR1	1	0.00434539	0.00434539	0.02	0.8779
TRTP	2	0.26118314	0.13059157	0.71	0.4927

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	13.26636323	13.26636323	72.25	<.0001
SEX	1	0.06474514	0.06474514	0.35	0.5535
UCPDGR1	1	0.00600780	0.00600780	0.03	0.8567
TRTP	2	0.26118314	0.13059157	0.71	0.4927

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.14607404	0.2533
THSm2.2	2.11235340	0.3603
mCC	2.03701914	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.146074	2.011704 2.280444
THSm2.2	2.112353	2.015892 2.208815
mCC	2.037019	1.905348 2.168690

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	0.109055	-0.078825	0.296935
2 3	0.075334	-0.086876	0.237545

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.14607404	
THSm2.2	2.11235340	0.6870
mCC	2.03701914	0.2533

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.146074	2.011704 2.280444
THSm2.2	2.112353	2.015892 2.208815
mCC	2.037019	1.905348 2.168690

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.033721	-0.198747	0.131305
3 1	-0.109055	-0.296935	0.078825

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	17.28284086	3.45656817	20.19	<.0001
Error	154	26.36145851	0.17117830		
Corrected Total	159	43.64429937			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.395993	19.33294	0.413737	2.140063

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	16.81875295	16.81875295	98.25	<.0001
SEX	1	0.00673880	0.00673880	0.04	0.8430
UCPDGR1	1	0.20339475	0.20339475	1.19	0.2774
TRTP	2	0.25395435	0.12697718	0.74	0.4780

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	16.26833283	16.26833283	95.04	<.0001
SEX	1	0.01599685	0.01599685	0.09	0.7602
UCPDGR1	1	0.20576373	0.20576373	1.20	0.2746
TRTP	2	0.25395435	0.12697718	0.74	0.4780

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.20495986	0.2682
THSm2.2	2.11996903	0.8299
mCC	2.10291200	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.204960	2.075225 2.334694
THSm2.2	2.119969	2.026835 2.213103
mCC	2.102912	1.975783 2.230041

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	0.102048	-0.079351	0.283447
2 3	0.017057	-0.139558	0.173672

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: LYM, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	2.20495986	
THSm2.2	2.11996903	0.2936
mCC	2.10291200	0.2682

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	2.204960	2.075225 2.334694
THSm2.2	2.119969	2.026835 2.213103
mCC	2.102912	1.975783 2.230041

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.084991	-0.244324	0.074342
3 1	-0.102048	-0.283447	0.079351

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.42699735	0.08539947	12.78	<.0001
Error	154	1.02879265	0.00668047		
Corrected Total	159	1.45579000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.293310	27.04190	0.081734	0.302250

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.30592103	0.30592103	45.79	<.0001
SEX	1	0.02832445	0.02832445	4.24	0.0412
UCPDGR1	1	0.00650387	0.00650387	0.97	0.3253
TRTP	2	0.08624799	0.04312399	6.46	0.0020

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.28885449	0.28885449	43.24	<.0001
SEX	1	0.02103116	0.02103116	3.15	0.0780
UCPDGR1	1	0.00566349	0.00566349	0.85	0.3586
TRTP	2	0.08624799	0.04312399	6.46	0.0020

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.25999413	0.0057
THSm2.2	0.31604065	0.7579
mCC	0.31120789	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.259994	0.234155	0.285833
THSm2.2	0.316041	0.297551	0.334530
mCC	0.311208	0.286088	0.336328

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.051214	-0.087294	-0.015133
2 3	0.004833	-0.026089	0.035754

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.25999413	
THSm2.2	0.31604065	0.0007
mCC	0.31120789	0.0057

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.259994	0.234155	0.285833
THSm2.2	0.316041	0.297551	0.334530
mCC	0.311208	0.286088	0.336328

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.056047	0.024148 0.087945
3	1	0.051214	0.015133 0.087294

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.60613198	0.12122640	18.59	<.0001
Error	154	1.00424552	0.00652107		
Corrected Total	159	1.61037750			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.376391	27.06432	0.080753	0.298375

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.56747279	0.56747279	87.02	<.0001
SEX	1	0.02203535	0.02203535	3.38	0.0680
UCPDGR1	1	0.00233564	0.00233564	0.36	0.5504
TRTP	2	0.01428820	0.00714410	1.10	0.3370

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.48181465	0.48181465	73.89	<.0001
SEX	1	0.01960547	0.01960547	3.01	0.0849
UCPDGR1	1	0.00251696	0.00251696	0.39	0.5353
TRTP	2	0.01428820	0.00714410	1.10	0.3370

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.28711271	0.1673
THSm2.2	0.29359809	0.2321
mCC	0.31215212	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.287113	0.261584 0.312642
THSm2.2	0.293598	0.275330 0.311866
mCC	0.312152	0.287333 0.336971

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.025039	-0.060687	0.010608
2 3	-0.018554	-0.049105	0.011997

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.28711271	
THSm2.2	0.29359809	0.6849
mCC	0.31215212	0.1673

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.287113	0.261584 0.312642
THSm2.2	0.293598	0.275330 0.311866
mCC	0.312152	0.287333 0.336971

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	0.006485	-0.025031 0.038001
3	1	0.025039	-0.010608 0.060687

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.52446041	0.10489208	14.59	<.0001
Error	154	1.10713709	0.00718920		
Corrected Total	159	1.63159750			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.321440	29.22504	0.084789	0.290125

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.44107523	0.44107523	61.35	<.0001
SEX	1	0.02952730	0.02952730	4.11	0.0444
UCPDGR1	1	0.00013835	0.00013835	0.02	0.8899
TRTP	2	0.05371953	0.02685977	3.74	0.0260

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.38612599	0.38612599	53.71	<.0001
SEX	1	0.02492892	0.02492892	3.47	0.0645
UCPDGR1	1	0.00021708	0.00021708	0.03	0.8623
TRTP	2	0.05371953	0.02685977	3.74	0.0260

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.26709920	0.0092
THSm2.2	0.28355093	0.0407
mCC	0.31706520	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.267099	0.240294	0.293904
THSm2.2	0.283551	0.264370	0.302732
mCC	0.317065	0.291006	0.343124

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-0.049966	-0.087395 -0.012537
2	3	-0.033514	-0.065592 -0.001437

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.26709920	
THSm2.2	0.28355093	0.3276
mCC	0.31706520	0.0092

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.267099	0.240294	0.293904
THSm2.2	0.283551	0.264370	0.302732
mCC	0.317065	0.291006	0.343124

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.016452	-0.016639 0.049543
3	1	0.049966	0.012537 0.087395

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.64219569	0.12843914	14.30	<.0001
Error	154	1.38357368	0.00898424		
Corrected Total	159	2.02576937			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.317013	30.43476	0.094785	0.311438

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.51147146	0.51147146	56.93	<.0001
SEX	1	0.02669546	0.02669546	2.97	0.0868
UCPDGR1	1	0.00452657	0.00452657	0.50	0.4789
TRTP	2	0.09950220	0.04975110	5.54	0.0048

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.45349327	0.45349327	50.48	<.0001
SEX	1	0.02061961	0.02061961	2.30	0.1318
UCPDGR1	1	0.00516576	0.00516576	0.57	0.4494
TRTP	2	0.09950220	0.04975110	5.54	0.0048

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.28317505	0.0019
THSm2.2	0.30213119	0.0093
mCC	0.34997834	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.283175	0.253210	0.313140
THSm2.2	0.302131	0.280689	0.323573
mCC	0.349978	0.320847	0.379110

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.066803	-0.108645	-0.024962
2 3	-0.047847	-0.083706	-0.011988

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: MONO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.28317505	
THSm2.2	0.30213119	0.3130
mCC	0.34997834	0.0019

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.283175	0.253210 0.313140
THSm2.2	0.302131	0.280689 0.323573
mCC	0.349978	0.320847 0.379110

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means LSMean(i)-LSMean(j)		
2	1	0.018956	-0.018036	0.055949
3	1	0.066803	0.024962	0.108645

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.47532053	0.09506411	58.99	<.0001
Error	154	0.24818884	0.00161162		
Corrected Total	159	0.72350938			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.656965	31.25640	0.040145	0.128437

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.45198388	0.45198388	280.45	<.0001
SEX	1	0.01235664	0.01235664	7.67	0.0063
UCPDGR1	1	0.00001748	0.00001748	0.01	0.9172
TRTP	2	0.01096253	0.00548126	3.40	0.0359

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.40326234	0.40326234	250.22	<.0001
SEX	1	0.01083677	0.01083677	6.72	0.0104
UCPDGR1	1	0.00006765	0.00006765	0.04	0.8379
TRTP	2	0.01096253	0.00548126	3.40	0.0359

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.12479506	0.0695
THSm2.2	0.12086498	0.0109
mCC	0.14126098	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.124795	0.112232 0.137358
THSm2.2	0.120865	0.111775 0.129955
mCC	0.141261	0.128641 0.153881

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.016466	-0.034259	0.001327
2 3	-0.020396	-0.036040	-0.004752

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.12479506	
THSm2.2	0.12086498	0.6159
mCC	0.14126098	0.0695

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.124795	0.112232 0.137358
THSm2.2	0.120865	0.111775 0.129955
mCC	0.141261	0.128641 0.153881

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.003930	-0.019375 0.011514
3	1	0.016466	-0.001327 0.034259

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.58492139	0.11698428	39.39	<.0001
Error	154	0.45737799	0.00296999		
Corrected Total	159	1.04229938			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.561184	36.34687	0.054498	0.149937

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.54603759	0.54603759	183.85	<.0001
SEX	1	0.01330069	0.01330069	4.48	0.0359
UCPDGR1	1	0.00101650	0.00101650	0.34	0.5594
TRTP	2	0.02456661	0.01228330	4.14	0.0178

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.47745343	0.47745343	160.76	<.0001
SEX	1	0.01136754	0.01136754	3.83	0.0522
UCPDGR1	1	0.00139605	0.00139605	0.47	0.4940
TRTP	2	0.02456661	0.01228330	4.14	0.0178

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.15616412	0.4644
THSm2.2	0.13620194	0.0079
mCC	0.16513122	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.156164	0.139109 0.173219
THSm2.2	0.136202	0.123862 0.148542
mCC	0.165131	0.147999 0.182264

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.008967	-0.033121	0.015187
2 3	-0.028929	-0.050167	-0.007692

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.15616412	
THSm2.2	0.13620194	0.0619
mCC	0.16513122	0.4644

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.156164	0.139109	0.173219
THSm2.2	0.136202	0.123862	0.148542
mCC	0.165131	0.147999	0.182264

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.019962	-0.040928 0.001004
3	1	0.008967	-0.015187 0.033121

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.74840117	0.14968023	6.80	<.0001
Error	154	3.39010821	0.02201369		
Corrected Total	159	4.13850938			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.180838	91.83450	0.148370	0.161563

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.60897813	0.60897813	27.66	<.0001
SEX	1	0.03242923	0.03242923	1.47	0.2267
UCPDGR1	1	0.02797731	0.02797731	1.27	0.2614
TRTP	2	0.07901650	0.03950825	1.79	0.1696

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.58695959	0.58695959	26.66	<.0001
SEX	1	0.03744353	0.03744353	1.70	0.1941
UCPDGR1	1	0.02693809	0.02693809	1.22	0.2704
TRTP	2	0.07901650	0.03950825	1.79	0.1696

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.19452619	0.2895
THSm2.2	0.13978411	0.5092
mCC	0.15914811	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.194526	0.148094	0.240958
THSm2.2	0.139784	0.106189	0.173379
mCC	0.159148	0.112505	0.205791

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	0.035378	-0.030382	0.101138
2 3	-0.019364	-0.077183	0.038455

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.19452619	
THSm2.2	0.13978411	0.0600
mCC	0.15914811	0.2895

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.194526	0.148094 0.240958
THSm2.2	0.139784	0.106189 0.173379
mCC	0.159148	0.112505 0.205791

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
2 1	-0.054742	-0.111823	0.002338
3 1	-0.035378	-0.101138	0.030382

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.64892126	0.12978425	18.09	<.0001
Error	154	1.10461312	0.00717281		
Corrected Total	159	1.75353438			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.370065	55.65008	0.084692	0.152187

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.59769626	0.59769626	83.33	<.0001
SEX	1	0.01427666	0.01427666	1.99	0.1603
UCPDGR1	1	0.00141050	0.00141050	0.20	0.6581
TRTP	2	0.03553784	0.01776892	2.48	0.0873

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.51980517	0.51980517	72.47	<.0001
SEX	1	0.01306875	0.01306875	1.82	0.1791
UCPDGR1	1	0.00096519	0.00096519	0.13	0.7143
TRTP	2	0.03553784	0.01776892	2.48	0.0873

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.16072673	0.6454
THSm2.2	0.13538139	0.0429
mCC	0.16948886	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.160727	0.134223 0.187231
THSm2.2	0.135381	0.116205 0.154558
mCC	0.169489	0.142864 0.196114

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-0.008762	-0.046299	0.028775
2 3	-0.034107	-0.067111	-0.001103

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: EOS, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.16072673	
THSm2.2	0.13538139	0.1264
mCC	0.16948886	0.6454

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.160727	0.134223 0.187231
THSm2.2	0.135381	0.116205 0.154558
mCC	0.169489	0.142864 0.196114

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.025345	-0.057928 0.007237
3	1	0.008762	-0.028775 0.046299

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.03178717	0.00635743	26.43	<.0001
Error	154	0.03704721	0.00024057		
Corrected Total	159	0.06883438			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.461792	29.36842	0.015510	0.052813

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.02712509	0.02712509	112.76	<.0001
SEX	1	0.00112431	0.00112431	4.67	0.0322
UCPDGR1	1	0.00040880	0.00040880	1.70	0.1943
TRTP	2	0.00312897	0.00156448	6.50	0.0019

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.02704726	0.02704726	112.43	<.0001
SEX	1	0.00130139	0.00130139	5.41	0.0213
UCPDGR1	1	0.00040499	0.00040499	1.68	0.1964
TRTP	2	0.00312897	0.00156448	6.50	0.0019

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04569745	0.0062
THSm2.2	0.05621607	0.7408
mCC	0.05522941	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.045697	0.040845 0.050550
THSm2.2	0.056216	0.052722 0.059710
mCC	0.055229	0.050465 0.059994

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-0.009532	-0.016312 -0.002752
2	3	0.000987	-0.004895 0.006868

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04569745	
THSm2.2	0.05621607	0.0006
mCC	0.05522941	0.0062

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.045697	0.040845 0.050550
THSm2.2	0.056216	0.052722 0.059710
mCC	0.055229	0.050465 0.059994

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.010519	0.004557 0.016481
3	1	0.009532	0.002752 0.016312

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.01464534	0.00292907	8.85	<.0001
Error	154	0.05095216	0.00033086		
Corrected Total	159	0.06559750			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.223261	36.28829	0.018190	0.050125

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.01359607	0.01359607	41.09	<.0001
SEX	1	0.00020079	0.00020079	0.61	0.4372
UCPDGR1	1	0.00065891	0.00065891	1.99	0.1602
TRTP	2	0.00018957	0.00009478	0.29	0.7513

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.01311091	0.01311091	39.63	<.0001
SEX	1	0.00025217	0.00025217	0.76	0.3840
UCPDGR1	1	0.00066028	0.00066028	2.00	0.1598
TRTP	2	0.00018957	0.00009478	0.29	0.7513

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04853382	0.5230
THSm2.2	0.05101275	0.9777
mCC	0.05111054	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.048534	0.042843 0.054225
THSm2.2	0.051013	0.046915 0.055111
mCC	0.051111	0.045523 0.056698

**Least Squares Means for Effect TRTP**

Difference		95% Confidence	
Between		Limits for	
i	j	Means LSMean(i)-LSMean(j)	
1	3	-0.002577	-0.010527 0.005374
2	3	-0.000097793	-0.006996 0.006800

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04853382	
THSm2.2	0.05101275	0.4847
mCC	0.05111054	0.5230

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.048534	0.042843 0.054225
THSm2.2	0.051013	0.046915 0.055111
mCC	0.051111	0.045523 0.056698

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	0.002479	-0.004513 0.009471
3	1	0.002577	-0.005374 0.010527

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.01352370	0.00270474	7.60	<.0001
Error	154	0.05483630	0.00035608		
Corrected Total	159	0.06836000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.197831	39.31266	0.018870	0.048000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.01333817	0.01333817	37.46	<.0001
SEX	1	0.00005856	0.00005856	0.16	0.6856
UCPDGR1	1	0.00000475	0.00000475	0.01	0.9082
TRTP	2	0.00012222	0.00006111	0.17	0.8425

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.01284976	0.01284976	36.09	<.0001
SEX	1	0.00005613	0.00005613	0.16	0.6919
UCPDGR1	1	0.00000330	0.00000330	0.01	0.9234
TRTP	2	0.00012222	0.00006111	0.17	0.8425

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04723597	0.6111
THSm2.2	0.04745745	0.5995
mCC	0.04936370	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.047236	0.041332	0.053140
THSm2.2	0.047457	0.043206	0.051709
mCC	0.049364	0.043567	0.055160

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-0.002128	-0.010376 0.006120
2	3	-0.001906	-0.009062 0.005250

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04723597	
THSm2.2	0.04745745	0.9520
mCC	0.04936370	0.6111

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.047236	0.041332	0.053140
THSm2.2	0.047457	0.043206	0.051709
mCC	0.049364	0.043567	0.055160

**Least Squares Means for Effect**

TRTP				
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	0.000221	-0.007032	0.007475
3	1	0.002128	-0.006120	0.010376

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.00845216	0.00169043	2.91	0.0155
Error	154	0.08956721	0.00058161		
Corrected Total	159	0.09801938			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.086230	50.30820	0.024116	0.047938

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	0.00706995	0.00706995	12.16	0.0006
SEX	1	0.00002510	0.00002510	0.04	0.8357
UCPDGR1	1	0.00024132	0.00024132	0.41	0.5204
TRTP	2	0.00111578	0.00055789	0.96	0.3855

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	0.00684841	0.00684841	11.78	0.0008
SEX	1	0.00001894	0.00001894	0.03	0.8570
UCPDGR1	1	0.00020704	0.00020704	0.36	0.5516
TRTP	2	0.00111578	0.00055789	0.96	0.3855

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04901668	0.6263
THSm2.2	0.04539127	0.1805
mCC	0.05162007	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	0.049017	0.041471 0.056562
THSm2.2	0.045391	0.039958 0.050825
mCC	0.051620	0.044212 0.059028

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i j	Means	LSMean(i)-LSMean(j)	
1 3	-0.002603	-0.013145	0.007938
2 3	-0.006229	-0.015374	0.002917

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adlb: FASFL=Y and ANL01FL=Y

Paramcd: BASO, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	0.04901668	
THSm2.2	0.04539127	0.4410
mCC	0.05162007	0.6263

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	0.049017	0.041471	0.056562
THSm2.2	0.045391	0.039958	0.050825
mCC	0.051620	0.044212	0.059028

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-0.003625	-0.012896 0.005645
3	1	0.002603	-0.007938 0.013145

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adxp: FASFL=Y and ANL01FL=Y

Paramcd: FEVPCT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 157

**Number of Observations Used** 157

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adxp: FASFL=Y and ANL01FL=Y

Paramcd: FEVPCT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	10650.29770	2130.05954	75.96	<.0001
Error	151	4234.20293	28.04108		
Corrected Total	156	14884.50064			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.715529	5.602334	5.295383	94.52102

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	10131.26134	10131.26134	361.30	<.0001
SEX	1	409.78991	409.78991	14.61	0.0002
UCPDGR1	1	0.86919	0.86919	0.03	0.8605
TRTP	2	108.37727	54.18863	1.93	0.1484

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	9368.921626	9368.921626	334.11	<.0001
SEX	1	402.527873	402.527873	14.35	0.0002
UCPDGR1	1	0.184746	0.184746	0.01	0.9354
TRTP	2	108.377266	54.188633	1.93	0.1484

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adxp: FASFL=Y and ANL01FL=Y

Paramcd: FEVPCT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	95.0383730	0.1648
THSm2.2	95.3584879	0.0554
mCC	93.3799848	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	95.038373	93.356639 96.720107
THSm2.2	95.358488	94.158796 96.558179
mCC	93.379985	91.734711 95.025259

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	1.658388	-0.689005 4.005781
2	3	1.978503	-0.046543 4.003549

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.adxp: FASFL=Y and ANL01FL=Y

Paramcd: FEVPCT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	95.0383730	
THSm2.2	95.3584879	0.7594
mCC	93.3799848	0.1648

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	95.038373	93.356639 96.720107
THSm2.2	95.358488	94.158796 96.558179
mCC	93.379985	91.734711 95.025259

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	0.320115	-1.741540 2.381769
3	1	-1.658388	-4.005781 0.689005

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	6464.77284	1292.95457	21.93	<.0001
Error	154	9080.20216	58.96235		
Corrected Total	159	15544.97500			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.415875	7.118966	7.678695	107.8625

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	6132.592565	6132.592565	104.01	<.0001
SEX	1	92.690982	92.690982	1.57	0.2118
UCPDGR1	1	17.666626	17.666626	0.30	0.5849
TRTP	2	221.822669	110.911334	1.88	0.1559

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	4121.838667	4121.838667	69.91	<.0001
SEX	1	106.288089	106.288089	1.80	0.1814
UCPDGR1	1	18.148086	18.148086	0.31	0.5798
TRTP	2	221.822669	110.911334	1.88	0.1559

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	105.809744	0.2884
THSm2.2	108.780505	0.4539
mCC	107.675141	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	105.809744	103.327027	108.292462
THSm2.2	108.780505	107.050702	110.510308
mCC	107.675141	105.309191	110.041090

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-1.865396	-5.324582 1.593789
2	3	1.105364	-1.803212 4.013941

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	105.809744	
THSm2.2	108.780505	0.0548
mCC	107.675141	0.2884

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	105.809744	103.327027	108.292462
THSm2.2	108.780505	107.050702	110.510308
mCC	107.675141	105.309191	110.041090

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	2.970761	-0.062145 6.003666
3	1	1.865396	-1.593789 5.324582

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8875.97572	1775.19514	27.37	<.0001
Error	154	9989.92428	64.86964		
Corrected Total	159	18865.90000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.470477	7.455838	8.054169	108.0250

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	7544.356517	7544.356517	116.30	<.0001
SEX	1	1269.091136	1269.091136	19.56	<.0001
UCPDGR1	1	4.491353	4.491353	0.07	0.7928
TRTP	2	58.036713	29.018356	0.45	0.6402

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	4220.972499	4220.972499	65.07	<.0001
SEX	1	1286.985320	1286.985320	19.84	<.0001
UCPDGR1	1	5.593002	5.593002	0.09	0.7694
TRTP	2	58.036713	29.018356	0.45	0.6402

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	106.639022	0.3464
THSm2.2	107.626716	0.6293
mCC	108.373633	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	106.639022	104.034904	109.243139
THSm2.2	107.626716	105.812329	109.441103
mCC	108.373633	105.891992	110.855273

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.734611	-5.362944	1.893722
2 3	-0.746917	-3.797717	2.303884

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	106.639022	
THSm2.2	107.626716	0.5406
mCC	108.373633	0.3464

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	106.639022	104.034904 109.243139
THSm2.2	107.626716	105.812329 109.441103
mCC	108.373633	105.891992 110.855273

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
2	1	0.987694	-2.193515 4.168904
3	1	1.734611	-1.893722 5.362944

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7891.14266	1578.22853	27.03	<.0001
Error	154	8990.85109	58.38215		
Corrected Total	159	16881.99375			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.467430	7.094953	7.640821	107.6938

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	5850.191413	5850.191413	100.21	<.0001
SEX	1	1923.914544	1923.914544	32.95	<.0001
UCPDGR1	1	35.972196	35.972196	0.62	0.4337
TRTP	2	81.064509	40.532254	0.69	0.5010

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	2725.072711	2725.072711	46.68	<.0001
SEX	1	1943.070927	1943.070927	33.28	<.0001
UCPDGR1	1	38.995919	38.995919	0.67	0.4150
TRTP	2	81.064509	40.532254	0.69	0.5010

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	105.941228	0.2566
THSm2.2	107.362925	0.7016
mCC	107.925378	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	105.941228	103.470756	108.411700
THSm2.2	107.362925	105.641655	109.084196
mCC	107.925378	105.571098	110.279658

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-1.984150	-5.426274 1.457974
2	3	-0.562453	-3.456683 2.331778

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	105.941228	
THSm2.2	107.362925	0.3535
mCC	107.925378	0.2566

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	105.941228	103.470756	108.411700
THSm2.2	107.362925	105.641655	109.084196
mCC	107.925378	105.571098	110.279658

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	1.421697	-1.596249 4.439644
3	1	1.984150	-1.457974 5.426274

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8981.50835	1796.30167	26.55	<.0001
Error	154	10419.08540	67.65640		
Corrected Total	159	19400.59375			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.462950	7.878217	8.225351	104.4063

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	6790.141128	6790.141128	100.36	<.0001
SEX	1	2152.666262	2152.666262	31.82	<.0001
UCPDGR1	1	7.133247	7.133247	0.11	0.7458
TRTP	2	31.567714	15.783857	0.23	0.7922

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	3698.018258	3698.018258	54.66	<.0001
SEX	1	2121.236777	2121.236777	31.35	<.0001
UCPDGR1	1	7.189061	7.189061	0.11	0.7449
TRTP	2	31.567714	15.783857	0.23	0.7922

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	104.521552	0.7291
THSm2.2	103.405965	0.7686
mCC	103.870885	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	104.521552	101.862087	107.181018
THSm2.2	103.405965	101.553015	105.258914
mCC	103.870885	101.336500	106.405270

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	0.650667	-3.054782 4.356117
2	3	-0.464920	-3.580562 2.650722

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: SYSBP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	104.521552	
THSm2.2	103.405965	0.4986
mCC	103.870885	0.7291

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	104.521552	101.862087	107.181018
THSm2.2	103.405965	101.553015	105.258914
mCC	103.870885	101.336500	106.405270

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-1.115588	-4.364410 2.133235
3	1	-0.650667	-4.356117 3.054782

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 6/Discharge Confinement Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 6/Discharge Confinement Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	3862.007245	772.401449	25.30	<.0001
Error	154	4701.967755	30.532258		
Corrected Total	159	8563.975000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.450960	8.065098	5.525600	68.51250

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	3402.062108	3402.062108	111.43	<.0001
SEX	1	24.187983	24.187983	0.79	0.3748
UCPDGR1	1	0.017014	0.017014	0.00	0.9812
TRTP	2	435.740140	217.870070	7.14	0.0011

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	2644.075444	2644.075444	86.60	<.0001
SEX	1	27.091556	27.091556	0.89	0.3477
UCPDGR1	1	0.008402	0.008402	0.00	0.9868
TRTP	2	435.740140	217.870070	7.14	0.0011

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	66.1039769	0.1961
THSm2.2	70.0450909	0.0292
mCC	67.7130189	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	66.103977	64.351849	67.856105
THSm2.2	70.045091	68.801221	71.288961
mCC	67.713019	66.013261	69.412777

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	-1.609042	-4.057144	0.839060
2 3	2.332072	0.239292	4.424852

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 6/Discharge Confinement Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	66.1039769	
THSm2.2	70.0450909	0.0004
mCC	67.7130189	0.1961

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	66.103977	64.351849	67.856105
THSm2.2	70.045091	68.801221	71.288961
mCC	67.713019	66.013261	69.412777

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	3.941114	1.795138 6.087090
3	1	1.609042	-0.839060 4.057144

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 30 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 30 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5529.21400	1105.84280	32.02	<.0001
Error	154	5317.72975	34.53071		
Corrected Total	159	10846.94375			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.509749	9.122009	5.876284	64.41875

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	5229.635930	5229.635930	151.45	<.0001
SEX	1	117.241854	117.241854	3.40	0.0673
UCPDGR1	1	52.124892	52.124892	1.51	0.2211
TRTP	2	130.211323	65.105662	1.89	0.1552

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	3897.396734	3897.396734	112.87	<.0001
SEX	1	117.857762	117.857762	3.41	0.0666
UCPDGR1	1	56.297297	56.297297	1.63	0.2036
TRTP	2	130.211323	65.105662	1.89	0.1552

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	62.7352136	0.1347
THSm2.2	64.9075461	0.8658
mCC	64.7168221	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	62.735214	60.871886 64.598541
THSm2.2	64.907546	63.584734 66.230358
mCC	64.716822	62.909189 66.524456

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-1.981609	-4.585080 0.621863
2	3	0.190724	-2.034874 2.416322

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 30 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	62.7352136	
THSm2.2	64.9075461	0.0619
mCC	64.7168221	0.1347

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	62.735214	60.871886 64.598541
THSm2.2	64.907546	63.584734 66.230358
mCC	64.716822	62.909189 66.524456

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	2.172333	-0.109838 4.454503
3	1	1.981609	-0.621863 4.585080

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 60 Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 60 Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	4698.42947	939.68589	24.05	<.0001
Error	154	6016.67053	39.06929		
Corrected Total	159	10715.10000			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.438487	9.605137	6.250543	65.07500

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	4401.563156	4401.563156	112.66	<.0001
SEX	1	147.397220	147.397220	3.77	0.0539
UCPDGR1	1	19.108794	19.108794	0.49	0.4854
TRTP	2	130.360299	65.180150	1.67	0.1920

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	3225.980014	3225.980014	82.57	<.0001
SEX	1	148.622901	148.622901	3.80	0.0529
UCPDGR1	1	23.112706	23.112706	0.59	0.4430
TRTP	2	130.360299	65.180150	1.67	0.1920

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.4240122	0.0825
THSm2.2	65.2212355	0.5867
mCC	65.8739838	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.424012	61.442010 65.406014
THSm2.2	65.221235	63.814174 66.628297
mCC	65.873984	63.951223 67.796745

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
1	3	-2.449972	-5.219257 0.319314
2	3	-0.652748	-3.020094 1.714598

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 60 Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.4240122	
THSm2.2	65.2212355	0.1456
mCC	65.8739838	0.0825

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.424012	61.442010 65.406014
THSm2.2	65.221235	63.814174 66.628297
mCC	65.873984	63.951223 67.796745

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	1.797223	-0.630298 4.224745
3	1	2.449972	-0.319314 5.219257

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL      Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	4844.38033	968.87607	25.08	<.0001
Error	154	5949.81342	38.63515		
Corrected Total	159	10794.19375			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.448795	9.834025	6.215718	63.20625

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	4182.892966	4182.892966	108.27	<.0001
SEX	1	630.536860	630.536860	16.32	<.0001
UCPDGR1	1	0.332820	0.332820	0.01	0.9262
TRTP	2	30.617689	15.308844	0.40	0.6735

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	3078.035873	3078.035873	79.67	<.0001
SEX	1	625.763592	625.763592	16.20	<.0001
UCPDGR1	1	0.247005	0.247005	0.01	0.9364
TRTP	2	30.617689	15.308844	0.40	0.6735

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.6181592	0.6052
THSm2.2	62.5304203	0.7594
mCC	62.8959791	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.618159	61.647200 65.589118
THSm2.2	62.530420	61.131198 63.929643
mCC	62.895979	60.983930 64.808028

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
1	3	0.722180	-2.031676 3.476037
2	3	-0.365559	-2.719715 1.988598

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: DIABP, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.6181592	
THSm2.2	62.5304203	0.3748
mCC	62.8959791	0.6052

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	63.618159	61.647200 65.589118
THSm2.2	62.530420	61.131198 63.929643
mCC	62.895979	60.983930 64.808028

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-1.087739	-3.501736 1.326258
3	1	-0.722180	-3.476037 2.031676

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: WEIGHT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: WEIGHT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	18186.45751	3637.29150	1311.75	<.0001
Error	154	427.01849	2.77285		
Corrected Total	159	18613.47600			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.977059	2.648619	1.665187	62.87000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	18140.03147	18140.03147	6542.02	<.0001
SEX	1	0.09186	0.09186	0.03	0.8558
UCPDGR1	1	1.68173	1.68173	0.61	0.4373
TRTP	2	44.65245	22.32623	8.05	0.0005

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	12110.34387	12110.34387	4367.48	<.0001
SEX	1	0.15417	0.15417	0.06	0.8139
UCPDGR1	1	1.71276	1.71276	0.62	0.4331
TRTP	2	44.65245	22.32623	8.05	0.0005

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: WEIGHT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.7915830	0.0027
THSm2.2	62.5277139	0.6570
mCC	62.6698072	

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	63.791583	63.268579	64.314587
THSm2.2	62.527714	62.152787	62.902641
mCC	62.669807	62.157114	63.182500

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LS	LSMean(i)-LSMean(j)
1	3	1.121776	0.394505 1.849046
2	3	-0.142093	-0.772902 0.488716

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: WEIGHT, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	63.7915830	
THSm2.2	62.5277139	0.0001
mCC	62.6698072	0.0027

95% Confidence			
TRTP	AVAL LSMEAN	Limits	
SA	63.791583	63.268579	64.314587
THSm2.2	62.527714	62.152787	62.902641
mCC	62.669807	62.157114	63.182500

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	-1.263869	-1.904747 -0.622991
3	1	-1.121776	-1.849046 -0.394505

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: WSTCIR, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: WSTCIR, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

Dependent Variable: AVAL    Analysis Value

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5100.95335	1020.19067	10.45	<.0001
Error	154	15035.82165	97.63521		
Corrected Total	159	20136.77500			

R-Square	Coeff Var	Root MSE	AVAL Mean
0.253315	12.23092	9.881053	80.78750

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BASE	1	4578.572127	4578.572127	46.89	<.0001
SEX	1	368.457060	368.457060	3.77	0.0539
UCPDGR1	1	34.927668	34.927668	0.36	0.5506
TRTP	2	118.996495	59.498247	0.61	0.5450

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BASE	1	3333.550864	3333.550864	34.14	<.0001
SEX	1	340.201592	340.201592	3.48	0.0639
UCPDGR1	1	32.159388	32.159388	0.33	0.5669
TRTP	2	118.996495	59.498247	0.61	0.5450

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: WSTCIR, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	80.5642419	0.5392
THSm2.2	81.3088286	0.2713
mCC	79.2167073	

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	80.564242	77.464815 83.663669
THSm2.2	81.308829	79.081129 83.536528
mCC	79.216707	76.184567 82.248848

**Least Squares Means for Effect**

TRTP			
Difference		95% Confidence	
Between		Limits for	
i j	Means LSMean(i)-LSMean(j)		
1 3	1.347535	-2.978367	5.673436
2 3	2.092121	-1.651707	5.835950

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2 Analysis of Risk Markers - FAS**

The where clause used on the dataset adam.advs: FASFL=Y and ANL01FL=Y

Paramcd: WSTCIR, Day 91/Discharge Ambulatory Model: GLM, Method: Normal

**Least Squares Means**

H0:LSMean=Control		
TRTP	AVAL LSMEAN	Pr >  t
SA	80.5642419	
THSm2.2	81.3088286	0.6991
mCC	79.2167073	0.5392

95% Confidence		
TRTP	AVAL LSMEAN	Limits
SA	80.564242	77.464815 83.663669
THSm2.2	81.308829	79.081129 83.536528
mCC	79.216707	76.184567 82.248848

**Least Squares Means for Effect**

TRTP			
		Difference	95% Confidence
		Between	Limits for
i	j	Means LSMean(i)-LSMean(j)	
2	1	0.744587	-3.053696 4.542870
3	1	-1.347535	-5.673436 2.978367

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.32862339	1.86572468	40.53	<.0001
Error	154	7.08967828	0.04603687		
Corrected Total	159	16.41830167			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.568184	3.388168	0.214562	6.332687

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.48849835	8.48849835	184.38	<.0001
SEX	1	0.26894846	0.26894846	5.84	0.0168
UCPDGR1	1	0.03367174	0.03367174	0.73	0.3938
TRTP	2	0.53750484	0.26875242	5.84	0.0036

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	8.19921396	8.19921396	178.10	<.0001
SEX	1	0.28704543	0.28704543	6.24	0.0136
UCPDGR1	1	0.04008830	0.04008830	0.87	0.3522
TRTP	2	0.53750484	0.26875242	5.84	0.0036

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.27112434	0.0011
THSm2.2	6.32657053	0.0129
mCC	6.43055540	

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.271124	6.203745	6.338504
THSm2.2	6.326571	6.278231	6.374910
mCC	6.430555	6.364423	6.496688

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
1	3	-0.159431	-0.253932	-0.064930
2	3	-0.103985	-0.185609	-0.022361

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 5 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.27112434	
THSm2.2	6.32657053	0.1864
mCC	6.43055540	0.0011

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.271124	6.203745	6.338504
THSm2.2	6.326571	6.278231	6.374910
mCC	6.430555	6.364423	6.496688

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	0.055446	-0.027087	0.137979
3	1	0.159431	0.064930	0.253932

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	11.46702305	2.29340461	28.96	<.0001
Error	154	12.19628296	0.07919664		
Corrected Total	159	23.66330600			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.484591	4.537029	0.281419	6.202715

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.84644066	9.84644066	124.33	<.0001
SEX	1	0.28088540	0.28088540	3.55	0.0616
UCPDGR1	1	0.36857120	0.36857120	4.65	0.0325
TRTP	2	0.97112579	0.48556289	6.13	0.0027

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	9.48693967	9.48693967	119.79	<.0001
SEX	1	0.31705562	0.31705562	4.00	0.0472
UCPDGR1	1	0.40443289	0.40443289	5.11	0.0252
TRTP	2	0.97112579	0.48556289	6.13	0.0027

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.21926969	0.0723
THSm2.2	6.14341214	0.0006
mCC	6.33281253	

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.219270	6.130895	6.307644
THSm2.2	6.143412	6.080010	6.206814
mCC	6.332813	6.246073	6.419552

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
1	3	-0.113543	-0.237490	0.010405
2	3	-0.189400	-0.296458	-0.082343

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 30 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.21926969	
THSm2.2	6.14341214	0.1683
mCC	6.33281253	0.0723

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.219270	6.130895	6.307644
THSm2.2	6.143412	6.080010	6.206814
mCC	6.332813	6.246073	6.419552

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	-0.075858	-0.184107	0.032392
3	1	0.113543	-0.010405	0.237490

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8.31969337	1.66393867	16.93	<.0001
Error	154	15.13486220	0.09827833		
Corrected Total	159	23.45455558			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.354715	5.086731	0.313494	6.162971

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.37595585	6.37595585	64.88	<.0001
SEX	1	0.75055849	0.75055849	7.64	0.0064
UCPDGR1	1	0.46399917	0.46399917	4.72	0.0313
TRTP	2	0.72917986	0.36458993	3.71	0.0267

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	5.94193158	5.94193158	60.46	<.0001
SEX	1	0.82560504	0.82560504	8.40	0.0043
UCPDGR1	1	0.49714811	0.49714811	5.06	0.0259
TRTP	2	0.72917986	0.36458993	3.71	0.0267

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.13461547	0.0267
THSm2.2	6.13700588	0.0117
mCC	6.29099993	

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.134615	6.036169	6.233062
THSm2.2	6.137006	6.066378	6.207634
mCC	6.291000	6.194375	6.387625

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
1	3	-0.156384	-0.294459	-0.018310
2	3	-0.153994	-0.273254	-0.034734

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 60 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.13461547	
THSm2.2	6.13700588	0.9688
mCC	6.29099993	0.0267

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.134615	6.036169	6.233062
THSm2.2	6.137006	6.066378	6.207634
mCC	6.291000	6.194375	6.387625

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	0.002390	-0.118197	0.122978
3	1	0.156384	0.018310	0.294459

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

Class Level Information	
Class	LevelsValues
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Number of Observations Read** 160

**Number of Observations Used** 160

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

Dependent Variable: LOGAVAL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	9.62951687	1.92590337	19.65	<.0001
Error	154	15.09507347	0.09801996		
Corrected Total	159	24.72459035			

R-Square	Coeff Var	Root MSE	LOGAVAL Mean
0.389471	5.062271	0.313081	6.184604

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LOGBASE	1	7.31537562	7.31537562	74.63	<.0001
SEX	1	1.30287355	1.30287355	13.29	0.0004
UCPDGR1	1	0.15883612	0.15883612	1.62	0.2049
TRTP	2	0.85243159	0.42621579	4.35	0.0146

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LOGBASE	1	6.64451067	6.64451067	67.79	<.0001
SEX	1	1.37882905	1.37882905	14.07	0.0002
UCPDGR1	1	0.17159877	0.17159877	1.75	0.1878
TRTP	2	0.85243159	0.42621579	4.35	0.0146

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.09267732	0.0037
THSm2.2	6.20319863	0.1166
mCC	6.29835027	

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.092677	5.994360	6.190995
THSm2.2	6.203199	6.132664	6.273734
mCC	6.298350	6.201852	6.394849

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
1	3	-0.205673	-0.343566	-0.067780
2	3	-0.095152	-0.214255	0.023951

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.25.2.1 Analysis of 11-DTX-B2 (pg/mg creat) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting the Production of 11-DTX-B2 - FAS**

The where clause used on the dataset adam.adbx: FASFL=Y and ANL02FL=Y and ANL03FL = Y

Paramcd: UTXB2CRE, Day 90 Model: GLM, Method: Log

**Least Squares Means**

TRTP	LOGAVAL H0:LSMean=Control	
	LSMEAN	Pr >  t
SA	6.09267732	
THSm2.2	6.20319863	0.0718
mCC	6.29835027	0.0037

TRTP	LOGAVAL 95% Confidence		
	LSMEAN	Limits	
SA	6.092677	5.994360	6.190995
THSm2.2	6.203199	6.132664	6.273734
mCC	6.298350	6.201852	6.394849

**Least Squares Means for Effect**

		TRTP		
		Difference	95% Confidence	
		Between	Limits for	
i	j	Means	LSMean(i)-LSMean(j)	
2	1	0.110521	-0.009908	0.230950
3	1	0.205673	0.067780	0.343566

**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**

<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.4082

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	498.8
<b>AIC (Smaller is Better)</b>	500.8
<b>AICC (Smaller is Better)</b>	500.8
<b>BIC (Smaller is Better)</b>	503.8

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>Num Den</b>		<b>F Value</b>	<b>Pr &gt; F</b>
	<b>DF</b>	<b>DF</b>		
<b>BASE</b>	1	149	83.49	<.0001
<b>SEX</b>	1	149	0.54	0.4630
<b>UCPDGR1</b>	1	149	4.16	0.0433
<b>TRTP</b>	2	149	25.39	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned</b>		<b>Standard</b>		<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
		<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>DF</b>					
<b>TRTP</b>	<b>SA</b>	5.3062	0.1907	149	27.83	<.0001	0.05	4.9294	5.6829	
<b>TRTP</b>	<b>THSm2.2</b>	3.8264	0.1382	149	27.70	<.0001	0.05	3.5534	4.0994	
<b>TRTP</b>	<b>mCC</b>	3.6128	0.1877	149	19.25	<.0001	0.05	3.2419	3.9836	
<b>TRTP</b>	<b>SA</b>	5.3062	0.1907	149	27.83	<.0001	0.05	4.9294	5.6829	
<b>TRTP</b>	<b>THSm2.2</b>	3.8264	0.1382	149	27.70	<.0001	0.05	3.5534	4.0994	
<b>TRTP</b>	<b>mCC</b>	3.6128	0.1877	149	19.25	<.0001	0.05	3.2419	3.9836	



Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.6934	0.2674	149	6.33	<.0001	0.05	1.1651 2.2218
TRTP	THSm2.2	mCC	0.2137	0.2329	149	0.92	0.3604	0.05	-0.2466 0.6739
TRTP	THSm2.2	SA	-1.4798	0.2343	149	-6.32	<.0001	0.05	-1.9427 -1.0168
TRTP	mCC	SA	-1.6934	0.2674	149	-6.33	<.0001	0.05	-2.2218 -1.1651

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.3653

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	494.2
<b>AIC (Smaller is Better)</b>	496.2
<b>AICC (Smaller is Better)</b>	496.2
<b>BIC (Smaller is Better)</b>	499.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	149	91.67	<.0001
<b>SEX</b>	1	149	1.27	0.2623
<b>UCPDGR1</b>	1	149	1.88	0.1722
<b>TRTP</b>	2	149	22.41	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	5.0641	0.1877	149	26.97	<.0001	0.05	4.6931	5.4350	
TRTP	THSm2.2	3.6565	0.1360	149	26.88	<.0001	0.05	3.3877	3.9254	
TRTP	mCC	3.5464	0.1848	149	19.19	<.0001	0.05	3.1812	3.9116	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	5.0641	0.1877	149	26.97	<.0001	0.05 4.6931 5.4350
TRTP	THSm2.2	3.6565	0.1360	149	26.88	<.0001	0.05 3.3877 3.9254
TRTP	mCC	3.5464	0.1848	149	19.19	<.0001	0.05 3.1812 3.9116

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.5177	0.2633	149	5.76	<.0001	0.05	0.9974 2.0379
TRTP	THSm2.2	mCC	0.1101	0.2293	149	0.48	0.6317	0.05	-0.3430 0.5633
TRTP	THSm2.2	SA	-1.4075	0.2307	149	-6.10	<.0001	0.05	-1.8634 -0.9517
TRTP	mCC	SA	-1.5177	0.2633	149	-5.76	<.0001	0.05	-2.0379 -0.9974

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.6170

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	519.4
<b>AIC (Smaller is Better)</b>	521.4
<b>AICC (Smaller is Better)</b>	521.4
<b>BIC (Smaller is Better)</b>	524.4

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	149	65.30 <.0001
<b>SEX</b>	1	149	0.52 0.4700
<b>UCPDGR1</b>	1	149	2.06 0.1529
<b>TRTP</b>	2	149	22.09 <.0001

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	5.0207	0.2043	149	24.57	<.0001	0.05 4.6170 5.4244
<b>TRTP</b>	THSm2.2	3.4954	0.1480	149	23.61	<.0001	0.05 3.2029 3.7880
<b>TRTP</b>	mCC	3.3869	0.2011	149	16.84	<.0001	0.05 2.9894 3.7843



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	5.0207	0.2043	149	24.57	<.0001	0.05 4.6170 5.4244
TRTP	THSm2.2	3.4954	0.1480	149	23.61	<.0001	0.05 3.2029 3.7880
TRTP	mCC	3.3869	0.2011	149	16.84	<.0001	0.05 2.9894 3.7843

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower	Upper
TRTP	SA	mCC	1.6338	0.2865	149	5.70	<.0001	0.05	1.0677 2.2000
TRTP	THSm2.2	mCC	0.1086	0.2496	149	0.44	0.6642	0.05	-0.3846 0.6018
TRTP	THSm2.2	SA	-1.5252	0.2511	149	-6.08	<.0001	0.05	-2.0213 -1.0292
TRTP	mCC	SA	-1.6338	0.2865	149	-5.70	<.0001	0.05	-2.2000 -1.0677

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.8619

Fit Statistics	
-2 Res Log Likelihood	540.4
AIC (Smaller is Better)	542.4
AICC (Smaller is Better)	542.4
BIC (Smaller is Better)	545.4

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	149	52.82	<.0001
SEX	1	149	3.73	0.0555
UCPDGR1	1	149	0.37	0.5447
TRTP	2	149	18.40	<.0001

Least Squares Means						
Planned		Standard				
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t  Alpha Lower Upper
TRTP	SA	4.9919	0.2192	149	22.77	<.0001 0.05 4.5587 5.4251
TRTP	THSm2.2	3.5136	0.1589	149	22.12	<.0001 0.05 3.1997 3.8275
TRTP	mCC	3.3705	0.2158	149	15.62	<.0001 0.05 2.9440 3.7969



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.9919	0.2192	149	22.77	<.0001	0.05 4.5587 5.4251
TRTP	THSm2.2	3.5136	0.1589	149	22.12	<.0001	0.05 3.1997 3.8275
TRTP	mCC	3.3705	0.2158	149	15.62	<.0001	0.05 2.9440 3.7969

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower	Upper
TRTP	SA	mCC	1.6214	0.3074	149	5.27	<.0001	0.05	1.0139 2.2289
TRTP	THSm2.2	mCC	0.1431	0.2678	149	0.53	0.5939	0.05	-0.3861 0.6723
TRTP	THSm2.2	SA	-1.4783	0.2694	149	-5.49	<.0001	0.05	-2.0107 -0.9460
TRTP	mCC	SA	-1.6214	0.3074	149	-5.27	<.0001	0.05	-2.2289 -1.0139



**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_5
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.7003

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	526.9
<b>AIC (Smaller is Better)</b>	528.9
<b>AICC (Smaller is Better)</b>	528.9
<b>BIC (Smaller is Better)</b>	531.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	149	65.27	<.0001
<b>SEX</b>	1	149	0.06	0.8012
<b>UCPDGR1</b>	1	149	0.79	0.3754
<b>TRTP</b>	2	149	15.99	<.0001

Least Squares Means										
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.7975	0.2095	149	22.90	<.0001	0.05	4.3835	5.2115	
TRTP	THSm2.2	3.4451	0.1518	149	22.69	<.0001	0.05	3.1451	3.7450	
TRTP	mCC	3.4065	0.2062	149	16.52	<.0001	0.05	2.9990	3.8140	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.7975	0.2095	149	22.90	<.0001	0.05 4.3835 5.2115
TRTP	THSm2.2	3.4451	0.1518	149	22.69	<.0001	0.05 3.1451 3.7450
TRTP	mCC	3.4065	0.2062	149	16.52	<.0001	0.05 2.9990 3.8140

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower	Upper
TRTP	SA	mCC	1.3910	0.2938	149	4.73	<.0001	0.05	0.8105 1.9715
TRTP	THSm2.2	mCC	0.03853	0.2559	149	0.15	0.8805	0.05	-0.4672 0.5443
TRTP	THSm2.2	SA	-1.3525	0.2574	149	-5.25	<.0001	0.05	-1.8612 -0.8438
TRTP	mCC	SA	-1.3910	0.2938	149	-4.73	<.0001	0.05	-1.9715 -0.8105

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT2FL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_6
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>Levels</b>	<b>Values</b>
<b>TRTP</b>	3	SA THSm2.2 mCC
<b>SEX</b>	2	F M
<b>UCPDGR1</b>	2	10-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	153

**Number of Observations**

<b>Number of Observations Read</b>	153
<b>Number of Observations Used</b>	153



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.8703

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	534.1
<b>AIC (Smaller is Better)</b>	536.1
<b>AICC (Smaller is Better)</b>	536.1
<b>BIC (Smaller is Better)</b>	539.1

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	147	40.54 <.0001
<b>SEX</b>	1	147	0.00 0.9891
<b>UCPDGR1</b>	1	147	1.95 0.1651
<b>TRTP</b>	2	147	3.79 0.0248

		<b>Least Squares Means</b>				
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.9465	0.2224 147	13.25	<.0001	0.05 2.5070 3.3860
<b>TRTP</b>	THSm2.2	3.6800	0.1603 147	22.96	<.0001	0.05 3.3632 3.9968
<b>TRTP</b>	mCC	3.5821	0.2162 147	16.57	<.0001	0.05 3.1549 4.0093



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.9465	0.2224	147	13.25	<.0001	0.05 2.5070 3.3860
TRTP	THSm2.2	3.6800	0.1603	147	22.96	<.0001	0.05 3.3632 3.9968
TRTP	mCC	3.5821	0.2162	147	16.57	<.0001	0.05 3.1549 4.0093

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.6356	0.3097	147	-2.05	0.0419	0.05	-1.2477	-0.02348
TRTP	THSm2.2	mCC	0.09792	0.2690	147	0.36	0.7164	0.05	-0.4337	0.6295
TRTP	THSm2.2	SA	0.7335	0.2730	147	2.69	0.0080	0.05	0.1940	1.2731
TRTP	mCC	SA	0.6356	0.3097	147	2.05	0.0419	0.05	0.02348	1.2477

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT3FL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_7
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	150

**Number of Observations**

<b>Number of Observations Read</b>	150
<b>Number of Observations Used</b>	150



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.9730

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	531.3
<b>AIC (Smaller is Better)</b>	533.3
<b>AICC (Smaller is Better)</b>	533.3
<b>BIC (Smaller is Better)</b>	536.3

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	144	31.87 <.0001
<b>SEX</b>	1	144	0.02 0.8794
<b>UCPDGR1</b>	1	144	0.48 0.4887
<b>TRTP</b>	2	144	6.17 0.0027

<b>Least Squares Means</b>						
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.6951	0.2284 144	11.80	<.0001	0.05 2.2436 3.1467
<b>TRTP</b>	THSm2.2	3.6445	0.1683 144	21.65	<.0001	0.05 3.3119 3.9772
<b>TRTP</b>	mCC	3.5753	0.2221 144	16.10	<.0001	0.05 3.1363 4.0142





		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.6951	0.2284	144	11.80	<.0001	0.05 2.2436 3.1467
TRTP	THSm2.2	3.6445	0.1683	144	21.65	<.0001	0.05 3.3119 3.9772
TRTP	mCC	3.5753	0.2221	144	16.10	<.0001	0.05 3.1363 4.0142

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.8801	0.3182	144	-2.77	0.0064	0.05	-1.5090 -0.2512
TRTP	THSm2.2	mCC	0.06929	0.2785	144	0.25	0.8039	0.05	-0.4812 0.6198
TRTP	THSm2.2	SA	0.9494	0.2825	144	3.36	0.0010	0.05	0.3910 1.5078
TRTP	mCC	SA	0.8801	0.3182	144	2.77	0.0064	0.05	0.2512 1.5090

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT4FL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_8
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.9820

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	521.3
<b>AIC (Smaller is Better)</b>	523.3
<b>AICC (Smaller is Better)</b>	523.3
<b>BIC (Smaller is Better)</b>	526.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	141	31.32	<.0001
<b>SEX</b>	1	141	0.62	0.4325
<b>UCPDGR1</b>	1	141	1.93	0.1667
<b>TRTP</b>	2	141	13.76	<.0001

<b>Least Squares Means</b>						
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.3489	0.2323 141	10.11	<.0001	0.05 1.8896 2.8082
<b>TRTP</b>	THSm2.2	3.8456	0.1706 141	22.54	<.0001	0.05 3.5083 4.1829
<b>TRTP</b>	mCC	3.4708	0.2227 141	15.59	<.0001	0.05 3.0305 3.9110



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	2.3489	0.2323	141	10.11	<.0001	0.05	1.8896 2.8082
TRTP	THSm2.2	3.8456	0.1706	141	22.54	<.0001	0.05	3.5083 4.1829
TRTP	mCC	3.4708	0.2227	141	15.59	<.0001	0.05	3.0305 3.9110

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.1219	0.3209	141	-3.50	0.0006	0.05 -1.7563 -0.4875
TRTP	THSm2.2	mCC	0.3748	0.2810	141	1.33	0.1843	0.05 -0.1806 0.9302
TRTP	THSm2.2	SA	1.4967	0.2871	141	5.21	<.0001	0.05 0.9291 2.0643
TRTP	mCC	SA	1.1219	0.3209	141	3.50	0.0006	0.05 0.4875 1.7563

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_9
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1332

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	466.3
<b>AIC (Smaller is Better)</b>	468.3
<b>AICC (Smaller is Better)</b>	468.3
<b>BIC (Smaller is Better)</b>	471.3

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	149	137.78 <.0001
<b>SEX</b>	1	149	1.13 0.2901
<b>UCPDGR1</b>	1	149	2.03 0.1566
<b>TRTP</b>	2	149	45.75 <.0001

		<b>Least Squares Means</b>				
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value Pr &gt;  t  Alpha Lower Upper</b>	
<b>TRTP</b>	SA	4.5532	0.1711	149	26.60 <.0001	0.05 4.2150 4.8914
<b>TRTP</b>	THSm2.2	2.7715	0.1236	149	22.42 <.0001	0.05 2.5273 3.0158
<b>TRTP</b>	mCC	2.5126	0.1675	149	15.00 <.0001	0.05 2.1816 2.8437



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.5532	0.1711	149	26.60	<.0001	0.05 4.2150 4.8914
TRTP	THSm2.2	2.7715	0.1236	149	22.42	<.0001	0.05 2.5273 3.0158
TRTP	mCC	2.5126	0.1675	149	15.00	<.0001	0.05 2.1816 2.8437

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	2.0405	0.2391	149	8.53	<.0001	0.05	1.5681 2.5130
TRTP	THSm2.2	mCC	0.2589	0.2073	149	1.25	0.2138	0.05	-0.1508 0.6686
TRTP	THSm2.2	SA	-1.7816	0.2103	149	-8.47	<.0001	0.05	-2.1972 -1.3661
TRTP	mCC	SA	-2.0405	0.2391	149	-8.53	<.0001	0.05	-2.5130 -1.5681

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_10
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.9960

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	447.0
<b>AIC (Smaller is Better)</b>	449.0
<b>AICC (Smaller is Better)</b>	449.1
<b>BIC (Smaller is Better)</b>	452.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	149	184.99	<.0001
<b>SEX</b>	1	149	1.01	0.3176
<b>UCPDGR1</b>	1	149	0.63	0.4294
<b>TRTP</b>	2	149	47.07	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.3492	0.1605	149	27.11	<.0001	0.05	4.0322	4.6663	
TRTP	THSm2.2	2.6302	0.1159	149	22.69	<.0001	0.05	2.4012	2.8592	
TRTP	mCC	2.4375	0.1571	149	15.52	<.0001	0.05	2.1272	2.7479	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.3492	0.1605	149	27.11	<.0001	0.05 4.0322 4.6663
TRTP	THSm2.2	2.6302	0.1159	149	22.69	<.0001	0.05 2.4012 2.8592
TRTP	mCC	2.4375	0.1571	149	15.52	<.0001	0.05 2.1272 2.7479

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.9117	0.2242	149	8.53	<.0001	0.05	1.4688 2.3546
TRTP	THSm2.2	mCC	0.1927	0.1944	149	0.99	0.3232	0.05	-0.1914 0.5768
TRTP	THSm2.2	SA	-1.7190	0.1972	149	-8.72	<.0001	0.05	-2.1086 -1.3294
TRTP	mCC	SA	-1.9117	0.2242	149	-8.53	<.0001	0.05	-2.3546 -1.4688

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_11
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1290

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	465.7
<b>AIC (Smaller is Better)</b>	467.7
<b>AICC (Smaller is Better)</b>	467.7
<b>BIC (Smaller is Better)</b>	470.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	149	153.95	<.0001
<b>SEX</b>	1	149	0.08	0.7820
<b>UCPDGR1</b>	1	149	0.04	0.8338
<b>TRTP</b>	2	149	35.67	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.1453	0.1708	149	24.27	<.0001	0.05	3.8078	4.4829	
TRTP	THSm2.2	2.5174	0.1234	149	20.40	<.0001	0.05	2.2735	2.7612	
TRTP	mCC	2.4207	0.1672	149	14.48	<.0001	0.05	2.0903	2.7511	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.1453	0.1708	149	24.27	<.0001	0.05 3.8078 4.4829
TRTP	THSm2.2	2.5174	0.1234	149	20.40	<.0001	0.05 2.2735 2.7612
TRTP	mCC	2.4207	0.1672	149	14.48	<.0001	0.05 2.0903 2.7511

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.7246	0.2386	149	7.23	<.0001	0.05	1.2531 2.1962
TRTP	THSm2.2	mCC	0.09663	0.2070	149	0.47	0.6412	0.05	-0.3123 0.5056
TRTP	THSm2.2	SA	-1.6280	0.2099	149	-7.76	<.0001	0.05	-2.0427 -1.2132
TRTP	mCC	SA	-1.7246	0.2386	149	-7.23	<.0001	0.05	-2.1962 -1.2531

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_12
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.2076

Fit Statistics	
-2 Res Log Likelihood	475.7
AIC (Smaller is Better)	477.7
AICC (Smaller is Better)	477.8
BIC (Smaller is Better)	480.7

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	149	126.04	<.0001
SEX	1	149	0.43	0.5143
UCPDGR1	1	149	0.12	0.7253
TRTP	2	149	24.16	<.0001

		Least Squares Means				
		Planned	Standard			
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t  Alpha Lower Upper
TRTP	SA	3.9238	0.1767	149	22.21	<.0001 0.05 3.5747 4.2729
TRTP	THSm2.2	2.5091	0.1276	149	19.66	<.0001 0.05 2.2569 2.7613
TRTP	mCC	2.5040	0.1729	149	14.48	<.0001 0.05 2.1623 2.8457



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	3.9238	0.1767	149	22.21	<.0001	0.05 3.5747 4.2729
TRTP	THSm2.2	2.5091	0.1276	149	19.66	<.0001	0.05 2.2569 2.7613
TRTP	mCC	2.5040	0.1729	149	14.48	<.0001	0.05 2.1623 2.8457

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower	Upper
TRTP	SA	mCC	1.4198	0.2468	149	5.75	<.0001	0.05	0.9321 1.9075
TRTP	THSm2.2	mCC	0.005092	0.2140	149	0.02	0.9811	0.05	-0.4179 0.4281
TRTP	THSm2.2	SA	-1.4147	0.2171	149	-6.52	<.0001	0.05	-1.8436 -0.9857
TRTP	mCC	SA	-1.4198	0.2468	149	-5.75	<.0001	0.05	-1.9075 -0.9321



**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_13
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates Cov Parm Estimate</b>	
<b>Residual</b>	1.2793

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	484.3
<b>AIC (Smaller is Better)</b>	486.3
<b>AICC (Smaller is Better)</b>	486.4
<b>BIC (Smaller is Better)</b>	489.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	149	119.56	<.0001
<b>SEX</b>	1	149	0.16	0.6923
<b>UCPDGR1</b>	1	149	0.09	0.7674
<b>TRTP</b>	2	149	26.83	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	3.9664	0.1819	149	21.81	<.0001	0.05	3.6070	4.3257	
TRTP	THSm2.2	2.4669	0.1314	149	18.78	<.0001	0.05	2.2074	2.7265	
TRTP	mCC	2.3689	0.1780	149	13.31	<.0001	0.05	2.0171	2.7206	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	3.9664	0.1819	149	21.81	<.0001	0.05 3.6070 4.3257
TRTP	THSm2.2	2.4669	0.1314	149	18.78	<.0001	0.05 2.2074 2.7265
TRTP	mCC	2.3689	0.1780	149	13.31	<.0001	0.05 2.0171 2.7206

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.5975	0.2540	149	6.29	<.0001	0.05	1.0955 2.0995
TRTP	THSm2.2	mCC	0.09808	0.2203	149	0.45	0.6568	0.05	-0.3373 0.5334
TRTP	THSm2.2	SA	-1.4994	0.2234	149	-6.71	<.0001	0.05	-1.9410 -1.0579
TRTP	mCC	SA	-1.5975	0.2540	149	-6.29	<.0001	0.05	-2.0995 -1.0955

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT2FL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_14
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	153

**Number of Observations**

<b>Number of Observations Read</b>	153
<b>Number of Observations Used</b>	153



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.3282

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	483.6
<b>AIC (Smaller is Better)</b>	485.6
<b>AICC (Smaller is Better)</b>	485.6
<b>BIC (Smaller is Better)</b>	488.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	147	72.44	<.0001
<b>SEX</b>	1	147	0.13	0.7235
<b>UCPDGR1</b>	1	147	0.03	0.8636
<b>TRTP</b>	2	147	0.41	0.6645

<b>Least Squares Means</b>						
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.2481	0.1877 147	11.98	<.0001	0.05 1.8771 2.6190
<b>TRTP</b>	THSm2.2	2.4562	0.1346 147	18.24	<.0001	0.05 2.1901 2.7222
<b>TRTP</b>	mCC	2.3750	0.1814 147	13.10	<.0001	0.05 2.0166 2.7334



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.2481	0.1877	147	11.98	<.0001	0.05 1.8771 2.6190
TRTP	THSm2.2	2.4562	0.1346	147	18.24	<.0001	0.05 2.1901 2.7222
TRTP	mCC	2.3750	0.1814	147	13.10	<.0001	0.05 2.0166 2.7334

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.1269	0.2606	147	-0.49	0.6270	0.05	-0.6419 0.3881
TRTP	THSm2.2	mCC	0.08118	0.2249	147	0.36	0.7187	0.05	-0.3634 0.5257
TRTP	THSm2.2	SA	0.2081	0.2302	147	0.90	0.3676	0.05	-0.2469 0.6631
TRTP	mCC	SA	0.1269	0.2606	147	0.49	0.6270	0.05	-0.3881 0.6419

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT3FL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_15
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	150

**Number of Observations**

<b>Number of Observations Read</b>	150
<b>Number of Observations Used</b>	150



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.5134

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	492.9
<b>AIC (Smaller is Better)</b>	494.9
<b>AICC (Smaller is Better)</b>	494.9
<b>BIC (Smaller is Better)</b>	497.9

<b>Type 3 Tests of Fixed Effects</b>				
		<b>Num Den</b>		
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	144	53.96	<.0001
<b>SEX</b>	1	144	0.12	0.7349
<b>UCPDGR1</b>	1	144	0.46	0.4964
<b>TRTP</b>	2	144	1.32	0.2716

		<b>Least Squares Means</b>				
		<b>Planned</b>	<b>Standard</b>			
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.0958	0.2004 144	10.46	<.0001	0.05 1.6997 2.4919
<b>TRTP</b>	THSm2.2	2.4959	0.1469 144	16.99	<.0001	0.05 2.2055 2.7862
<b>TRTP</b>	mCC	2.3889	0.1936 144	12.34	<.0001	0.05 2.0062 2.7716





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	2.0958	0.2004	144	10.46	<.0001	0.05	1.6997 2.4919
TRTP	THSm2.2	2.4959	0.1469	144	16.99	<.0001	0.05	2.2055 2.7862
TRTP	mCC	2.3889	0.1936	144	12.34	<.0001	0.05	2.0062 2.7716

Differences of Least Squares Means								
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.2931	0.2782	144	-1.05	0.2939	0.05 -0.8430 0.2568
TRTP	THSm2.2	mCC	0.1070	0.2419	144	0.44	0.6589	0.05 -0.3712 0.5852
TRTP	THSm2.2	SA	0.4001	0.2476	144	1.62	0.1083	0.05 -0.08927 0.8894
TRTP	mCC	SA	0.2931	0.2782	144	1.05	0.2939	0.05 -0.2568 0.8430

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT4FL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_16
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.3446

Fit Statistics	
-2 Res Log Likelihood	466.4
AIC (Smaller is Better)	468.4
AICC (Smaller is Better)	468.4
BIC (Smaller is Better)	471.4

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	141	69.47 <.0001
SEX	1	141	0.20 0.6541
UCPDGR1	1	141	0.51 0.4772
TRTP	2	141	3.66 0.0281

		Least Squares Means				
Planned		Standard				
Effect	Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	1.8946	0.1916 141	9.89	<.0001	0.05 1.5159 2.2734
TRTP	THSm2.2	2.5252	0.1400 141	18.03	<.0001	0.05 2.2484 2.8020
TRTP	mCC	2.4051	0.1826 141	13.17	<.0001	0.05 2.0441 2.7661



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	1.8946	0.1916	141	9.89	<.0001	0.05	1.5159 2.2734
TRTP	THSm2.2	2.5252	0.1400	141	18.03	<.0001	0.05	2.2484 2.8020
TRTP	mCC	2.4051	0.1826	141	13.17	<.0001	0.05	2.0441 2.7661

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-0.5105	0.2639	141	-1.93	0.0550	0.05 -1.0321 0.01116
TRTP	THSm2.2	mCC	0.1201	0.2295	141	0.52	0.6015	0.05 -0.3336 0.5738
TRTP	THSm2.2	SA	0.6306	0.2365	141	2.67	0.0086	0.05 0.1631 1.0981
TRTP	mCC	SA	0.5105	0.2639	141	1.93	0.0550	0.05 -0.01116 1.0321

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_17
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.0489

Fit Statistics	
-2 Res Log Likelihood	454.7
AIC (Smaller is Better)	456.7
AICC (Smaller is Better)	456.8
BIC (Smaller is Better)	459.8

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	149	124.73 <.0001
SEX	1	149	0.96 0.3294
UCPDGR1	1	149	3.97 0.0483
TRTP	2	149	41.29 <.0001

		Least Squares Means				
Planned		Standard				
Effect	Treatment	Estimate	Error	DF	t Value Pr >  t  Alpha Lower Upper	
TRTP	SA	4.9291	0.1646	149	29.94 <.0001	0.05 4.6038 5.2544
TRTP	THSm2.2	3.2938	0.1191	149	27.66 <.0001	0.05 3.0585 3.5291
TRTP	mCC	3.0718	0.1616	149	19.01 <.0001	0.05 2.7525 3.3910



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.9291	0.1646	149	29.94	<.0001	0.05 4.6038 5.2544
TRTP	THSm2.2	3.2938	0.1191	149	27.66	<.0001	0.05 3.0585 3.5291
TRTP	mCC	3.0718	0.1616	149	19.01	<.0001	0.05 2.7525 3.3910

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.8573	0.2305	149	8.06	<.0001	0.05	1.4019 2.3127
TRTP	THSm2.2	mCC	0.2220	0.2002	149	1.11	0.2693	0.05	-0.1736 0.6177
TRTP	THSm2.2	SA	-1.6353	0.2022	149	-8.09	<.0001	0.05	-2.0349 -1.2357
TRTP	mCC	SA	-1.8573	0.2305	149	-8.06	<.0001	0.05	-2.3127 -1.4019

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_18
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.0111

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	449.3
<b>AIC (Smaller is Better)</b>	451.3
<b>AICC (Smaller is Better)</b>	451.3
<b>BIC (Smaller is Better)</b>	454.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	149	145.68	<.0001
<b>SEX</b>	1	149	1.34	0.2497
<b>UCPDGR1</b>	1	149	1.63	0.2041
<b>TRTP</b>	2	149	37.80	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.7063	0.1616	149	29.12	<.0001	0.05	4.3870	5.0257	
TRTP	THSm2.2	3.1369	0.1169	149	26.83	<.0001	0.05	2.9059	3.3679	
TRTP	mCC	3.0031	0.1586	149	18.93	<.0001	0.05	2.6896	3.3165	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.7063	0.1616	149	29.12	<.0001	0.05 4.3870 5.0257
TRTP	THSm2.2	3.1369	0.1169	149	26.83	<.0001	0.05 2.9059 3.3679
TRTP	mCC	3.0031	0.1586	149	18.93	<.0001	0.05 2.6896 3.3165

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.7033	0.2263	149	7.53	<.0001	0.05	1.2562 2.1504
TRTP	THSm2.2	mCC	0.1339	0.1966	149	0.68	0.4969	0.05	-0.2546 0.5223
TRTP	THSm2.2	SA	-1.5694	0.1985	149	-7.90	<.0001	0.05	-1.9617 -1.1771
TRTP	mCC	SA	-1.7033	0.2263	149	-7.53	<.0001	0.05	-2.1504 -1.2562

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_19
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1646

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	470.3
<b>AIC (Smaller is Better)</b>	472.3
<b>AICC (Smaller is Better)</b>	472.4
<b>BIC (Smaller is Better)</b>	475.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	149	115.08	<.0001
<b>SEX</b>	1	149	0.31	0.5760
<b>UCPDGR1</b>	1	149	1.10	0.2965
<b>TRTP</b>	2	149	32.53	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.5823	0.1735	149	26.42	<.0001	0.05	4.2396	4.9251	
TRTP	THSm2.2	2.9989	0.1255	149	23.90	<.0001	0.05	2.7509	3.2468	
TRTP	mCC	2.9169	0.1703	149	17.13	<.0001	0.05	2.5805	3.2533	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.5823	0.1735	149	26.42	<.0001	0.05 4.2396 4.9251
TRTP	THSm2.2	2.9989	0.1255	149	23.90	<.0001	0.05 2.7509 3.2468
TRTP	mCC	2.9169	0.1703	149	17.13	<.0001	0.05 2.5805 3.2533

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.6654	0.2428	149	6.86	<.0001	0.05	1.1856 2.1453
TRTP	THSm2.2	mCC	0.08196	0.2110	149	0.39	0.6982	0.05	-0.3349 0.4988
TRTP	THSm2.2	SA	-1.5835	0.2131	149	-7.43	<.0001	0.05	-2.0045 -1.1624
TRTP	mCC	SA	-1.6654	0.2428	149	-6.86	<.0001	0.05	-2.1453 -1.1856

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_20
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.2721

Fit Statistics	
-2 Res Log Likelihood	483.5
AIC (Smaller is Better)	485.5
AICC (Smaller is Better)	485.5
BIC (Smaller is Better)	488.5

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	149	94.52 <.0001
SEX	1	149	2.20 0.1399
UCPDGR1	1	149	0.08 0.7815
TRTP	2	149	24.81 <.0001

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.4572	0.1813	149	24.59	<.0001	0.05 4.0990 4.8154
TRTP	THSm2.2	3.0048	0.1311	149	22.92	<.0001	0.05 2.7457 3.2639
TRTP	mCC	2.9486	0.1779	149	16.57	<.0001	0.05 2.5970 3.3003



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	4.4572	0.1813	149	24.59	<.0001	0.05	4.0990 4.8154
TRTP	THSm2.2	3.0048	0.1311	149	22.92	<.0001	0.05	2.7457 3.2639
TRTP	mCC	2.9486	0.1779	149	16.57	<.0001	0.05	2.5970 3.3003

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	1.5085	0.2538	149	5.94	<.0001	0.05 1.0070 2.0101
TRTP	THSm2.2	mCC	0.05613	0.2205	149	0.25	0.7994	0.05 -0.3796 0.4918
TRTP	THSm2.2	SA	-1.4524	0.2227	149	-6.52	<.0001	0.05 -1.8925 -1.0124
TRTP	mCC	SA	-1.5085	0.2538	149	-5.94	<.0001	0.05 -2.0101 -1.0070



**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT1FL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_21
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>Levels</b>	<b>Values</b>
<b>TRTP</b>	3	SA THSm2.2 mCC
<b>SEX</b>	2	F M
<b>UCPDGR1</b>	2	10-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.2886

Fit Statistics	
-2 Res Log Likelihood	485.4
AIC (Smaller is Better)	487.4
AICC (Smaller is Better)	487.4
BIC (Smaller is Better)	490.4

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	149	95.73 <.0001
SEX	1	149	0.12 0.7256
UCPDGR1	1	149	0.17 0.6806
TRTP	2	149	23.79 <.0001

		Least Squares Means				
Planned		Standard				
Effect	Treatment	Estimate	Error	DF	t Value Pr >  t  Alpha Lower Upper	
TRTP	SA	4.3825	0.1825	149	24.02 <.0001	0.05 4.0220 4.7431
TRTP	THSm2.2	2.9513	0.1320	149	22.36 <.0001	0.05 2.6906 3.2121
TRTP	mCC	2.8954	0.1791	149	16.17 <.0001	0.05 2.5415 3.2493



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.3825	0.1825	149	24.02	<.0001	0.05 4.0220 4.7431
TRTP	THSm2.2	2.9513	0.1320	149	22.36	<.0001	0.05 2.6906 3.2121
TRTP	mCC	2.8954	0.1791	149	16.17	<.0001	0.05 2.5415 3.2493

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower	Upper
TRTP	SA	mCC	1.4871	0.2554	149	5.82	<.0001	0.05	0.9824 1.9919
TRTP	THSm2.2	mCC	0.05592	0.2219	149	0.25	0.8014	0.05	-0.3826 0.4944
TRTP	THSm2.2	SA	-1.4312	0.2241	149	-6.39	<.0001	0.05	-1.8741 -0.9883
TRTP	mCC	SA	-1.4871	0.2554	149	-5.82	<.0001	0.05	-1.9919 -0.9824

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT2FL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_22
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	153

**Number of Observations**

<b>Number of Observations Read</b>	153
<b>Number of Observations Used</b>	153



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.3920

Fit Statistics	
-2 Res Log Likelihood	490.5
AIC (Smaller is Better)	492.5
AICC (Smaller is Better)	492.5
BIC (Smaller is Better)	495.5

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	147	60.16 <.0001
SEX	1	147	0.02 0.8754
UCPDGR1	1	147	0.89 0.3467
TRTP	2	147	2.02 0.1358

		Least Squares Means				
Planned		Standard				
Effect	Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.5975	0.1920 147	13.53	<.0001	0.05 2.2181 2.9769
TRTP	THSm2.2	3.0633	0.1380 147	22.20	<.0001	0.05 2.7906 3.3361
TRTP	mCC	2.9854	0.1861 147	16.05	<.0001	0.05 2.6177 3.3531



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.5975	0.1920	147	13.53	<.0001	0.05 2.2181 2.9769
TRTP	THSm2.2	3.0633	0.1380	147	22.20	<.0001	0.05 2.7906 3.3361
TRTP	mCC	2.9854	0.1861	147	16.05	<.0001	0.05 2.6177 3.3531

		Differences of Least Squares Means					
Planned		Standard					
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t  Alpha Lower Upper
TRTP	SA	mCC	-0.3879	0.2671	147	-1.45	0.1485 0.05 -0.9158 0.1399
TRTP	THSm2.2	mCC	0.07788	0.2311	147	0.34	0.7366 0.05 -0.3788 0.5346
TRTP	THSm2.2	SA	0.4658	0.2355	147	1.98	0.0498 0.05 0.000404 0.9312
TRTP	mCC	SA	0.3879	0.2671	147	1.45	0.1485 0.05 -0.1399 0.9158

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT3FL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_23
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	150

**Number of Observations**

<b>Number of Observations Read</b>	150
<b>Number of Observations Used</b>	150



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.5869

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	499.8
<b>AIC (Smaller is Better)</b>	501.8
<b>AICC (Smaller is Better)</b>	501.8
<b>BIC (Smaller is Better)</b>	504.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	144	43.44 <.0001
<b>SEX</b>	1	144	0.06 0.8020
<b>UCPDGR1</b>	1	144	0.01 0.9282
<b>TRTP</b>	2	144	3.71 0.0269

		<b>Least Squares Means</b>				
		<b>Planned</b>	<b>Standard</b>			
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.3968	0.2050 144	11.69	<.0001	0.05 1.9916 2.8021
<b>TRTP</b>	THSm2.2	3.0657	0.1506 144	20.35	<.0001	0.05 2.7680 3.3634
<b>TRTP</b>	mCC	2.9879	0.1987 144	15.04	<.0001	0.05 2.5951 3.3806





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.3968	0.2050	144	11.69	<.0001	0.05	1.9916 2.8021
TRTP	THSm2.2	3.0657	0.1506	144	20.35	<.0001	0.05	2.7680 3.3634
TRTP	mCC	2.9879	0.1987	144	15.04	<.0001	0.05	2.5951 3.3806

Differences of Least Squares Means											
Planned		Planned		Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.5910	0.2852	144	-2.07	0.0400	0.05	-1.1548	-0.02728	
TRTP	THSm2.2	mCC	0.07782	0.2487	144	0.31	0.7548	0.05	-0.4137	0.5693	
TRTP	THSm2.2	SA	0.6688	0.2533	144	2.64	0.0092	0.05	0.1682	1.1695	
TRTP	mCC	SA	0.5910	0.2852	144	2.07	0.0400	0.05	0.02728	1.1548	

**Listing 15.4.4.36.1 Analysis of QSU-brief Factors and Total Scores - PP Set**

The where clause used on the dataset adam.ADQSSU: PPROT4FL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_24
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.4792

Fit Statistics	
-2 Res Log Likelihood	479.9
AIC (Smaller is Better)	481.9
AICC (Smaller is Better)	481.9
BIC (Smaller is Better)	484.8

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	141	49.66	<.0001
SEX	1	141	0.44	0.5088
UCPDGR1	1	141	1.40	0.2391
TRTP	2	141	9.26	0.0002

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	2.1235	0.2008	141	10.57	<.0001	0.05	1.7265	2.5206	
TRTP	THSm2.2	3.1801	0.1471	141	21.62	<.0001	0.05	2.8893	3.4709	
TRTP	mCC	2.9447	0.1919	141	15.34	<.0001	0.05	2.5652	3.3242	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.1235	0.2008	141	10.57	<.0001	0.05 1.7265 2.5206
TRTP	THSm2.2	3.1801	0.1471	141	21.62	<.0001	0.05 2.8893 3.4709
TRTP	mCC	2.9447	0.1919	141	15.34	<.0001	0.05 2.5652 3.3242

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.8212	0.2771	141	-2.96	0.0036	0.05	-1.3689 -0.2734
TRTP	THSm2.2	mCC	0.2354	0.2417	141	0.97	0.3316	0.05	-0.2423 0.7132
TRTP	THSm2.2	SA	1.0566	0.2479	141	4.26	<.0001	0.05	0.5664 1.5468
TRTP	mCC	SA	0.8212	0.2771	141	2.96	0.0036	0.05	0.2734 1.3689

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	158

**Number of Observations**

<b>Number of Observations Read</b>	158
<b>Number of Observations Used</b>	158
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 1.3926

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	506.8
<b>AIC (Smaller is Better)</b>	508.8
<b>AICC (Smaller is Better)</b>	508.8
<b>BIC (Smaller is Better)</b>	511.8

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>Num Den</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	152		86.27	<.0001
<b>SEX</b>	1	152		0.59	0.4425
<b>UCPDGR1</b>	1	152		3.72	0.0557
<b>TRTP</b>	2	152		26.11	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	5.2853	0.1870	152	28.26	<.0001	0.05	4.9158	5.6547
<b>TRTP</b>	THSm2.2	3.8047	0.1359	152	28.00	<.0001	0.05	3.5363	4.0732
<b>TRTP</b>	mCC	3.6025	0.1865	152	19.32	<.0001	0.05	3.2341	3.9709
<b>TRTP</b>	SA	5.2853	0.1870	152	28.26	<.0001	0.05	4.9158	5.6547
<b>TRTP</b>	THSm2.2	3.8047	0.1359	152	28.00	<.0001	0.05	3.5363	4.0732
<b>TRTP</b>	mCC	3.6025	0.1865	152	19.32	<.0001	0.05	3.2341	3.9709



Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	1.6828	0.2637	152	6.38 <.0001	0.05	1.1618	2.2038
TRTP	THSm2.2	mCC	0.2023	0.2304	152	0.88 0.3815	0.05	-0.2530	0.6575
TRTP	THSm2.2	SA	-1.4805	0.2302	152	-6.43 <.0001	0.05	-1.9353	-1.0258
TRTP	mCC	SA	-1.6828	0.2637	152	-6.38 <.0001	0.05	-2.2038	-1.1618

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	157

**Number of Observations**

<b>Number of Observations Read</b>	157
<b>Number of Observations Used</b>	157





Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.3597

Fit Statistics	
-2 Res Log Likelihood	500.0
AIC (Smaller is Better)	502.0
AICC (Smaller is Better)	502.0
BIC (Smaller is Better)	505.0

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	151	92.39	<.0001
SEX	1	151	1.15	0.2852
UCPDGR1	1	151	1.64	0.2025
TRTP	2	151	22.79	<.0001

Least Squares Means								
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha Lower Upper
TRTP	SA	5.0533	0.1848	151	27.35	<.0001	0.05	4.6882 5.4184
TRTP	THSm2.2	3.6606	0.1350	151	27.12	<.0001	0.05	3.3939 3.9273
TRTP	mCC	3.5301	0.1842	151	19.16	<.0001	0.05	3.1661 3.8942



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	5.0533	0.1848	151	27.35	<.0001	0.05 4.6882 5.4184
TRTP	THSm2.2	3.6606	0.1350	151	27.12	<.0001	0.05 3.3939 3.9273
TRTP	mCC	3.5301	0.1842	151	19.16	<.0001	0.05 3.1661 3.8942

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.5231	0.2606	151	5.85	<.0001	0.05	1.0083 2.0380
TRTP	THSm2.2	mCC	0.1305	0.2282	151	0.57	0.5682	0.05	-0.3203 0.5814
TRTP	THSm2.2	SA	-1.3926	0.2279	151	-6.11	<.0001	0.05	-1.8430 -0.9423
TRTP	mCC	SA	-1.5231	0.2606	151	-5.85	<.0001	0.05	-2.0380 -1.0083

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.6478

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	525.6
<b>AIC (Smaller is Better)</b>	527.6
<b>AICC (Smaller is Better)</b>	527.6
<b>BIC (Smaller is Better)</b>	530.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	150	62.17	<.0001
<b>SEX</b>	1	150	0.70	0.4037
<b>UCPDGR1</b>	1	150	1.57	0.2122
<b>TRTP</b>	2	150	21.23	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	5.0173	0.2063	150	24.32	<.0001	0.05	4.6097	5.4248	
TRTP	THSm2.2	3.5246	0.1485	150	23.73	<.0001	0.05	3.2311	3.8181	
TRTP	mCC	3.3797	0.2030	150	16.65	<.0001	0.05	2.9787	3.7808	



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	5.0173	0.2063	150	24.32	<.0001	0.05	4.6097 5.4248
TRTP	THSm2.2	3.5246	0.1485	150	23.73	<.0001	0.05	3.2311 3.8181
TRTP	mCC	3.3797	0.2030	150	16.65	<.0001	0.05	2.9787 3.7808

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	1.6375	0.2892	150	5.66	<.0001	0.05 1.0661 2.2090
TRTP	THSm2.2	mCC	0.1449	0.2513	150	0.58	0.5650	0.05 -0.3516 0.6413
TRTP	THSm2.2	SA	-1.4927	0.2529	150	-5.90	<.0001	0.05 -1.9923 -0.9930
TRTP	mCC	SA	-1.6375	0.2892	150	-5.66	<.0001	0.05 -2.2090 -1.0661

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.8544

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	543.3
<b>AIC (Smaller is Better)</b>	545.3
<b>AICC (Smaller is Better)</b>	545.3
<b>BIC (Smaller is Better)</b>	548.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	150	52.64	<.0001
<b>SEX</b>	1	150	3.91	0.0499
<b>UCPDGR1</b>	1	150	0.31	0.5808
<b>TRTP</b>	2	150	18.36	<.0001

Least Squares Means										
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.9885	0.2188	150	22.80	<.0001	0.05	4.5562	5.4209	
TRTP	THSm2.2	3.5214	0.1576	150	22.35	<.0001	0.05	3.2101	3.8328	
TRTP	mCC	3.3658	0.2153	150	15.63	<.0001	0.05	2.9404	3.7912	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.9885	0.2188	150	22.80	<.0001	0.05 4.5562 5.4209
TRTP	THSm2.2	3.5214	0.1576	150	22.35	<.0001	0.05 3.2101 3.8328
TRTP	mCC	3.3658	0.2153	150	15.63	<.0001	0.05 2.9404 3.7912

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	1.6227	0.3068	150	5.29	<.0001	0.05	1.0165	2.2290
TRTP	THSm2.2	mCC	0.1556	0.2665	150	0.58	0.5601	0.05	-0.3710	0.6823
TRTP	THSm2.2	SA	-1.4671	0.2683	150	-5.47	<.0001	0.05	-1.9972	-0.9370
TRTP	mCC	SA	-1.6227	0.3068	150	-5.29	<.0001	0.05	-2.2290	-1.0165



**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_5
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.6893

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	529.3
<b>AIC (Smaller is Better)</b>	531.3
<b>AICC (Smaller is Better)</b>	531.3
<b>BIC (Smaller is Better)</b>	534.3

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	150	65.82 <.0001
<b>SEX</b>	1	150	0.06 0.8090
<b>UCPDGR1</b>	1	150	0.77 0.3810
<b>TRTP</b>	2	150	16.07 <.0001

<b>Least Squares Means</b>						
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	4.7939	0.2088	150	22.95 <.0001	0.05 4.3812 5.2066
<b>TRTP</b>	THSm2.2	3.4446	0.1504	150	22.90 <.0001	0.05 3.1474 3.7418
<b>TRTP</b>	mCC	3.4025	0.2055	150	16.56 <.0001	0.05 2.9965 3.8086



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.7939	0.2088	150	22.95	<.0001	0.05 4.3812 5.2066
TRTP	THSm2.2	3.4446	0.1504	150	22.90	<.0001	0.05 3.1474 3.7418
TRTP	mCC	3.4025	0.2055	150	16.56	<.0001	0.05 2.9965 3.8086

		Differences of Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA mCC	1.3914	0.2928	150	4.75	<.0001	0.05 0.8127 1.9700
TRTP	THSm2.2 mCC	0.04206	0.2544	150	0.17	0.8689	0.05 -0.4606 0.5447
TRTP	THSm2.2 SA	-1.3493	0.2560	150	-5.27	<.0001	0.05 -1.8552 -0.8434
TRTP	mCC SA	-1.3914	0.2928	150	-4.75	<.0001	0.05 -1.9700 -0.8127

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_6
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.8592

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	540.2
<b>AIC (Smaller is Better)</b>	542.2
<b>AICC (Smaller is Better)</b>	542.2
<b>BIC (Smaller is Better)</b>	545.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	149	40.43	<.0001
<b>SEX</b>	1	149	0.01	0.9125
<b>UCPDGR1</b>	1	149	1.65	0.2011
<b>TRTP</b>	2	149	4.06	0.0191

		<b>Least Squares Means</b>				
		<b>Planned</b>	<b>Standard</b>			
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.9455	0.2217 149	13.28	<.0001	0.05 2.5074 3.3837
<b>TRTP</b>	THSm2.2	3.7054	0.1579 149	23.47	<.0001	0.05 3.3934 4.0173
<b>TRTP</b>	mCC	3.5799	0.2155 149	16.61	<.0001	0.05 3.1541 4.0057



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.9455	0.2217	149	13.28	<.0001	0.05 2.5074 3.3837
TRTP	THSm2.2	3.7054	0.1579	149	23.47	<.0001	0.05 3.3934 4.0173
TRTP	mCC	3.5799	0.2155	149	16.61	<.0001	0.05 3.1541 4.0057

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.6344	0.3088	149	-2.05	0.0417	0.05	-1.2446	-0.02415
TRTP	THSm2.2	mCC	0.1255	0.2669	149	0.47	0.6390	0.05	-0.4020	0.6529
TRTP	THSm2.2	SA	0.7598	0.2711	149	2.80	0.0057	0.05	0.2242	1.2954
TRTP	mCC	SA	0.6344	0.3088	149	2.05	0.0417	0.05	0.02415	1.2446

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_7
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.9484

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	547.2
<b>AIC (Smaller is Better)</b>	549.2
<b>AICC (Smaller is Better)</b>	549.2
<b>BIC (Smaller is Better)</b>	552.2

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	149	33.54 <.0001
<b>SEX</b>	1	149	0.17 0.6796
<b>UCPDGR1</b>	1	149	0.68 0.4106
<b>TRTP</b>	2	149	6.00 0.0031

		<b>Least Squares Means</b>				
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	SA	2.6893	0.2270 149	11.85 <.0001	0.05	2.2407 3.1378
<b>TRTP</b>	THSm2.2	3.6047	0.1616 149	22.30 <.0001	0.05	3.2854 3.9241
<b>TRTP</b>	mCC	3.5684	0.2206 149	16.18 <.0001	0.05	3.1325 4.0043





		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.6893	0.2270	149	11.85	<.0001	0.05 2.2407 3.1378
TRTP	THSm2.2	3.6047	0.1616	149	22.30	<.0001	0.05 3.2854 3.9241
TRTP	mCC	3.5684	0.2206	149	16.18	<.0001	0.05 3.1325 4.0043

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.8791	0.3161	149	-2.78	0.0061	0.05	-1.5038 -0.2545
TRTP	THSm2.2	mCC	0.03628	0.2733	149	0.13	0.8945	0.05	-0.5037 0.5762
TRTP	THSm2.2	SA	0.9154	0.2775	149	3.30	0.0012	0.05	0.3671 1.4637
TRTP	mCC	SA	0.8791	0.3161	149	2.78	0.0061	0.05	0.2545 1.5038

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT1, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_8
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	154

**Number of Observations**

<b>Number of Observations Read</b>	154
<b>Number of Observations Used</b>	154



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.9379

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	542.8
<b>AIC (Smaller is Better)</b>	544.8
<b>AICC (Smaller is Better)</b>	544.8
<b>BIC (Smaller is Better)</b>	547.8

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	148	32.82 <.0001
<b>SEX</b>	1	148	0.84 0.3623
<b>UCPDGR1</b>	1	148	2.65 0.1059
<b>TRTP</b>	2	148	13.87 <.0001

		<b>Least Squares Means</b>				
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.3421	0.2264 148	10.35	<.0001	0.05 1.8948 2.7894
<b>TRTP</b>	THSm2.2	3.7918	0.1622 148	23.38	<.0001	0.05 3.4713 4.1123
<b>TRTP</b>	mCC	3.4686	0.2202 148	15.76	<.0001	0.05 3.0335 3.9037



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	2.3421	0.2264	148	10.35	<.0001	0.05	1.8948 2.7894
TRTP	THSm2.2	3.7918	0.1622	148	23.38	<.0001	0.05	3.4713 4.1123
TRTP	mCC	3.4686	0.2202	148	15.76	<.0001	0.05	3.0335 3.9037

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	-1.1265	0.3153	148	-3.57	0.0005	0.05 -1.7496 -0.5034
TRTP	THSm2.2	mCC	0.3232	0.2735	148	1.18	0.2392	0.05 -0.2173 0.8637
TRTP	THSm2.2	SA	1.4497	0.2774	148	5.23	<.0001	0.05 0.9015 1.9978
TRTP	mCC	SA	1.1265	0.3153	148	3.57	0.0005	0.05 0.5034 1.7496

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_9
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	158

**Number of Observations**

<b>Number of Observations Read</b>	158
<b>Number of Observations Used</b>	158



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.1431

Fit Statistics	
-2 Res Log Likelihood	476.6
AIC (Smaller is Better)	478.6
AICC (Smaller is Better)	478.6
BIC (Smaller is Better)	481.6

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	152	143.24	<.0001
SEX	1	152	0.72	0.3970
UCPDGR1	1	152	1.98	0.1612
TRTP	2	152	43.70	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.4784	0.1696	152	26.41	<.0001	0.05	4.1434	4.8135	
TRTP	THSm2.2	2.7553	0.1228	152	22.45	<.0001	0.05	2.5128	2.9978	
TRTP	mCC	2.4901	0.1682	152	14.81	<.0001	0.05	2.1579	2.8223	



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	4.4784	0.1696	152	26.41	<.0001	0.05	4.1434 4.8135
TRTP	THSm2.2	2.7553	0.1228	152	22.45	<.0001	0.05	2.5128 2.9978
TRTP	mCC	2.4901	0.1682	152	14.81	<.0001	0.05	2.1579 2.8223

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	1.9884	0.2383	152	8.34	<.0001	0.05 1.5175 2.4593
TRTP	THSm2.2	mCC	0.2652	0.2072	152	1.28	0.2024	0.05 -0.1441 0.6745
TRTP	THSm2.2	SA	-1.7231	0.2086	152	-8.26	<.0001	0.05 -2.1352 -1.3110
TRTP	mCC	SA	-1.9884	0.2383	152	-8.34	<.0001	0.05 -2.4593 -1.5175

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_10
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	157

**Number of Observations**

<b>Number of Observations Read</b>	157
<b>Number of Observations Used</b>	157





Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.0053

Fit Statistics	
-2 Res Log Likelihood	454.2
AIC (Smaller is Better)	456.2
AICC (Smaller is Better)	456.2
BIC (Smaller is Better)	459.2

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	151	190.91	<.0001
SEX	1	151	0.65	0.4199
UCPDGR1	1	151	0.43	0.5132
TRTP	2	151	45.05	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.2872	0.1590	151	26.96	<.0001	0.05	3.9731	4.6014	
TRTP	THSm2.2	2.6192	0.1158	151	22.63	<.0001	0.05	2.3905	2.8479	
TRTP	mCC	2.4242	0.1577	151	15.37	<.0001	0.05	2.1126	2.7359	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.2872	0.1590	151	26.96	<.0001	0.05 3.9731 4.6014
TRTP	THSm2.2	2.6192	0.1158	151	22.63	<.0001	0.05 2.3905 2.8479
TRTP	mCC	2.4242	0.1577	151	15.37	<.0001	0.05 2.1126 2.7359

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	1.8630	0.2235	151	8.33	<.0001	0.05	1.4214	2.3047
TRTP	THSm2.2	mCC	0.1950	0.1948	151	1.00	0.3186	0.05	-0.1900	0.5799
TRTP	THSm2.2	SA	-1.6681	0.1960	151	-8.51	<.0001	0.05	-2.0553	-1.2808
TRTP	mCC	SA	-1.8630	0.2235	151	-8.33	<.0001	0.05	-2.3047	-1.4214

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_11
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1216

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	467.7
<b>AIC (Smaller is Better)</b>	469.7
<b>AICC (Smaller is Better)</b>	469.7
<b>BIC (Smaller is Better)</b>	472.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	150	155.27	<.0001
<b>SEX</b>	1	150	0.08	0.7739
<b>UCPDGR1</b>	1	150	0.04	0.8428
<b>TRTP</b>	2	150	35.91	<.0001

Least Squares Means									
Planned		Standard							
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	4.1410	0.1703	150	24.32	<.0001	0.05	3.8045	4.4774
TRTP	THSm2.2	2.5150	0.1223	150	20.57	<.0001	0.05	2.2734	2.7566
TRTP	mCC	2.4162	0.1667	150	14.50	<.0001	0.05	2.0869	2.7455



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.1410	0.1703	150	24.32	<.0001	0.05 3.8045 4.4774
TRTP	THSm2.2	2.5150	0.1223	150	20.57	<.0001	0.05 2.2734 2.7566
TRTP	mCC	2.4162	0.1667	150	14.50	<.0001	0.05 2.0869 2.7455

Differences of Least Squares Means										
Planned		Planned	Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	1.7247	0.2379	150	7.25	<.0001	0.05	1.2547	2.1947
TRTP	THSm2.2	mCC	0.09877	0.2058	150	0.48	0.6320	0.05	-0.3079	0.5054
TRTP	THSm2.2	SA	-1.6260	0.2088	150	-7.79	<.0001	0.05	-2.0385	-1.2134
TRTP	mCC	SA	-1.7247	0.2379	150	-7.25	<.0001	0.05	-2.1947	-1.2547

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_12
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.2041

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	478.4
<b>AIC (Smaller is Better)</b>	480.4
<b>AICC (Smaller is Better)</b>	480.4
<b>BIC (Smaller is Better)</b>	483.4

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	150	125.84	<.0001
<b>SEX</b>	1	150	0.49	0.4840
<b>UCPDGR1</b>	1	150	0.18	0.6761
<b>TRTP</b>	2	150	24.05	<.0001

Least Squares Means										
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	3.9197	0.1764	150	22.21	<.0001	0.05	3.5711	4.2684	
TRTP	THSm2.2	2.5155	0.1267	150	19.86	<.0001	0.05	2.2652	2.7658	
TRTP	mCC	2.4993	0.1727	150	14.47	<.0001	0.05	2.1582	2.8405	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	3.9197	0.1764	150	22.21	<.0001	0.05 3.5711 4.2684
TRTP	THSm2.2	2.5155	0.1267	150	19.86	<.0001	0.05 2.2652 2.7658
TRTP	mCC	2.4993	0.1727	150	14.47	<.0001	0.05 2.1582 2.8405

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower	Upper
TRTP	SA	mCC	1.4204	0.2465	150	5.76	<.0001	0.05	0.9334 1.9074
TRTP	THSm2.2	mCC	0.01614	0.2132	150	0.08	0.9398	0.05	-0.4052 0.4375
TRTP	THSm2.2	SA	-1.4042	0.2163	150	-6.49	<.0001	0.05	-1.8317 -0.9768
TRTP	mCC	SA	-1.4204	0.2465	150	-5.76	<.0001	0.05	-1.9074 -0.9334



**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_13
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.2718

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	486.6
<b>AIC (Smaller is Better)</b>	488.6
<b>AICC (Smaller is Better)</b>	488.6
<b>BIC (Smaller is Better)</b>	491.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	150	120.25	<.0001
<b>SEX</b>	1	150	0.14	0.7059
<b>UCPDGR1</b>	1	150	0.11	0.7440
<b>TRTP</b>	2	150	26.94	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	3.9623	0.1813	150	21.85	<.0001	0.05	3.6040	4.3206	
TRTP	THSm2.2	2.4676	0.1302	150	18.95	<.0001	0.05	2.2104	2.7249	
TRTP	mCC	2.3645	0.1775	150	13.32	<.0001	0.05	2.0138	2.7151	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	3.9623	0.1813	150	21.85	<.0001	0.05 3.6040 4.3206
TRTP	THSm2.2	2.4676	0.1302	150	18.95	<.0001	0.05 2.2104 2.7249
TRTP	mCC	2.3645	0.1775	150	13.32	<.0001	0.05 2.0138 2.7151

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.5978	0.2533	150	6.31	<.0001	0.05	1.0973 2.0983
TRTP	THSm2.2	mCC	0.1031	0.2192	150	0.47	0.6386	0.05	-0.3299 0.5362
TRTP	THSm2.2	SA	-1.4947	0.2223	150	-6.72	<.0001	0.05	-1.9339 -1.0554
TRTP	mCC	SA	-1.5978	0.2533	150	-6.31	<.0001	0.05	-2.0983 -1.0973

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_14
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.3108

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	487.9
<b>AIC (Smaller is Better)</b>	489.9
<b>AICC (Smaller is Better)</b>	490.0
<b>BIC (Smaller is Better)</b>	492.9

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	149	73.93 <.0001
<b>SEX</b>	1	149	0.12 0.7347
<b>UCPDGR1</b>	1	149	0.02 0.8784
<b>TRTP</b>	2	149	0.44 0.6471

		<b>Least Squares Means</b>				
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.2484	0.1865 149	12.06	<.0001	0.05 1.8799 2.6168
<b>TRTP</b>	THSm2.2	2.4605	0.1322 149	18.62	<.0001	0.05 2.1994 2.7217
<b>TRTP</b>	mCC	2.3754	0.1802 149	13.18	<.0001	0.05 2.0194 2.7314



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.2484	0.1865	149	12.06	<.0001	0.05 1.8799 2.6168
TRTP	THSm2.2	2.4605	0.1322	149	18.62	<.0001	0.05 2.1994 2.7217
TRTP	mCC	2.3754	0.1802	149	13.18	<.0001	0.05 2.0194 2.7314

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.1270	0.2589	149	-0.49	0.6243	0.05	-0.6386 0.3845
TRTP	THSm2.2	mCC	0.08515	0.2225	149	0.38	0.7025	0.05	-0.3545 0.5248
TRTP	THSm2.2	SA	0.2122	0.2278	149	0.93	0.3530	0.05	-0.2379 0.6623
TRTP	mCC	SA	0.1270	0.2589	149	0.49	0.6243	0.05	-0.3845 0.6386

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_15
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.4814

Fit Statistics	
-2 Res Log Likelihood	506.2
AIC (Smaller is Better)	508.2
AICC (Smaller is Better)	508.2
BIC (Smaller is Better)	511.2

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	149	57.50 <.0001
SEX	1	149	0.25 0.6158
UCPDGR1	1	149	0.31 0.5767
TRTP	2	149	1.20 0.3028

		Least Squares Means				
Planned		Standard				
Effect	Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.0965	0.1982 149	10.58	<.0001	0.05 1.7048 2.4882
TRTP	THSm2.2	2.4695	0.1405 149	17.57	<.0001	0.05 2.1918 2.7472
TRTP	mCC	2.3876	0.1915 149	12.47	<.0001	0.05 2.0091 2.7660





		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.0965	0.1982	149	10.58	<.0001	0.05 1.7048 2.4882
TRTP	THSm2.2	2.4695	0.1405	149	17.57	<.0001	0.05 2.1918 2.7472
TRTP	mCC	2.3876	0.1915	149	12.47	<.0001	0.05 2.0091 2.7660

		Differences of Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA mCC	-0.2911	0.2752	149	-1.06	0.2919	0.05 -0.8349 0.2527
TRTP	THSm2.2 mCC	0.08193	0.2365	149	0.35	0.7295	0.05 -0.3855 0.5493
TRTP	THSm2.2 SA	0.3730	0.2421	149	1.54	0.1255	0.05 -0.1054 0.8515
TRTP	mCC SA	0.2911	0.2752	149	1.06	0.2919	0.05 -0.2527 0.8349

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUFACT2, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_16
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	154

**Number of Observations**

<b>Number of Observations Read</b>	154
<b>Number of Observations Used</b>	154



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.3071

Fit Statistics	
-2 Res Log Likelihood	484.4
AIC (Smaller is Better)	486.4
AICC (Smaller is Better)	486.4
BIC (Smaller is Better)	489.4

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	148	72.77 <.0001
SEX	1	148	0.33 0.5686
UCPDGR1	1	148	0.65 0.4199
TRTP	2	148	4.01 0.0201

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	1.8744	0.1861	148	10.07	<.0001	0.05 1.5065 2.2422
TRTP	THSm2.2	2.5098	0.1328	148	18.90	<.0001	0.05 2.2474 2.7721
TRTP	mCC	2.4027	0.1800	148	13.35	<.0001	0.05 2.0471 2.7584



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	1.8744	0.1861	148	10.07	<.0001	0.05 1.5065 2.2422
TRTP	THSm2.2	2.5098	0.1328	148	18.90	<.0001	0.05 2.2474 2.7721
TRTP	mCC	2.4027	0.1800	148	13.35	<.0001	0.05 2.0471 2.7584

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.5284	0.2585	148	-2.04	0.0428	0.05	-1.0393	-0.01746
TRTP	THSm2.2	mCC	0.1071	0.2229	148	0.48	0.6316	0.05	-0.3333	0.5474
TRTP	THSm2.2	SA	0.6354	0.2279	148	2.79	0.0060	0.05	0.1850	1.0858
TRTP	mCC	SA	0.5284	0.2585	148	2.04	0.0428	0.05	0.01746	1.0393

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_17
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	158

**Number of Observations**

<b>Number of Observations Read</b>	158
<b>Number of Observations Used</b>	158



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.0371

Fit Statistics	
-2 Res Log Likelihood	461.8
AIC (Smaller is Better)	463.8
AICC (Smaller is Better)	463.8
BIC (Smaller is Better)	466.8

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	152	132.30	<.0001
SEX	1	152	0.80	0.3713
UCPDGR1	1	152	3.76	0.0544
TRTP	2	152	41.29	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.8822	0.1614	152	30.24	<.0001	0.05	4.5632	5.2012	
TRTP	THSm2.2	3.2735	0.1171	152	27.96	<.0001	0.05	3.0422	3.5048	
TRTP	mCC	3.0571	0.1605	152	19.04	<.0001	0.05	2.7400	3.3743	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.8822	0.1614	152	30.24	<.0001	0.05 4.5632 5.2012
TRTP	THSm2.2	3.2735	0.1171	152	27.96	<.0001	0.05 3.0422 3.5048
TRTP	mCC	3.0571	0.1605	152	19.04	<.0001	0.05 2.7400 3.3743

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.8251	0.2274	152	8.03	<.0001	0.05	1.3759 2.2743
TRTP	THSm2.2	mCC	0.2164	0.1980	152	1.09	0.2763	0.05	-0.1749 0.6076
TRTP	THSm2.2	SA	-1.6087	0.1986	152	-8.10	<.0001	0.05	-2.0011 -1.2164
TRTP	mCC	SA	-1.8251	0.2274	152	-8.03	<.0001	0.05	-2.2743 -1.3759

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_18
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	157

**Number of Observations**

<b>Number of Observations Read</b>	157
<b>Number of Observations Used</b>	157





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.0074

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	454.5
<b>AIC (Smaller is Better)</b>	456.5
<b>AICC (Smaller is Better)</b>	456.5
<b>BIC (Smaller is Better)</b>	459.5

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	151	150.34	<.0001
<b>SEX</b>	1	151	1.07	0.3022
<b>UCPDGR1</b>	1	151	1.36	0.2460
<b>TRTP</b>	2	151	37.50	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	4.6710	0.1591	151	29.36	<.0001	0.05	4.3566	4.9853	
TRTP	THSm2.2	3.1329	0.1160	151	27.00	<.0001	0.05	2.9037	3.3621	
TRTP	mCC	2.9886	0.1582	151	18.89	<.0001	0.05	2.6759	3.3012	



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.6710	0.1591	151	29.36	<.0001	0.05 4.3566 4.9853
TRTP	THSm2.2	3.1329	0.1160	151	27.00	<.0001	0.05 2.9037 3.3621
TRTP	mCC	2.9886	0.1582	151	18.89	<.0001	0.05 2.6759 3.3012

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	1.6824	0.2241	151	7.51	<.0001	0.05	1.2397	2.1251
TRTP	THSm2.2	mCC	0.1443	0.1957	151	0.74	0.4620	0.05	-0.2423	0.5309
TRTP	THSm2.2	SA	-1.5381	0.1962	151	-7.84	<.0001	0.05	-1.9256	-1.1505
TRTP	mCC	SA	-1.6824	0.2241	151	-7.51	<.0001	0.05	-2.1251	-1.2397

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_19
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.1692

Fit Statistics	
-2 Res Log Likelihood	474.0
AIC (Smaller is Better)	476.0
AICC (Smaller is Better)	476.0
BIC (Smaller is Better)	479.0

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	150	113.31	<.0001
SEX	1	150	0.40	0.5255
UCPDGR1	1	150	0.88	0.3499
TRTP	2	150	32.06	<.0001

Least Squares Means						
Planned		Standard				
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t  Alpha Lower Upper
TRTP	SA	4.5784	0.1738	150	26.34	<.0001 0.05 4.2349 4.9219
TRTP	THSm2.2	3.0123	0.1250	150	24.11	<.0001 0.05 2.7654 3.2592
TRTP	mCC	2.9113	0.1706	150	17.07	<.0001 0.05 2.5743 3.2483



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	4.5784	0.1738	150	26.34	<.0001	0.05 4.2349 4.9219
TRTP	THSm2.2	3.0123	0.1250	150	24.11	<.0001	0.05 2.7654 3.2592
TRTP	mCC	2.9113	0.1706	150	17.07	<.0001	0.05 2.5743 3.2483

Differences of Least Squares Means										
Planned		Planned	Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	1.6671	0.2433	150	6.85	<.0001	0.05	1.1863	2.1479
TRTP	THSm2.2	mCC	0.1010	0.2108	150	0.48	0.6325	0.05	-0.3156	0.5176
TRTP	THSm2.2	SA	-1.5661	0.2131	150	-7.35	<.0001	0.05	-1.9870	-1.1451
TRTP	mCC	SA	-1.6671	0.2433	150	-6.85	<.0001	0.05	-2.1479	-1.1863

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_20
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates Cov Parm Estimate</b>	
<b>Residual</b>	1.2687

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	486.2
<b>AIC (Smaller is Better)</b>	488.2
<b>AICC (Smaller is Better)</b>	488.2
<b>BIC (Smaller is Better)</b>	491.2

<b>Type 3 Tests of Fixed Effects</b>				
		<b>Num Den</b>		
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	150	94.18	<.0001
<b>SEX</b>	1	150	2.36	0.1268
<b>UCPDGR1</b>	1	150	0.04	0.8338
<b>TRTP</b>	2	150	24.70	<.0001

		<b>Least Squares Means</b>				
		<b>Planned</b>	<b>Standard</b>			
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	4.4534	0.1811 150	24.59	<.0001	0.05 4.0956 4.8112
<b>TRTP</b>	THSm2.2	3.0122	0.1302 150	23.14	<.0001	0.05 2.7550 3.2694
<b>TRTP</b>	mCC	2.9438	0.1777 150	16.57	<.0001	0.05 2.5928 3.2949



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	4.4534	0.1811	150	24.59	<.0001	0.05	4.0956 4.8112
TRTP	THSm2.2	3.0122	0.1302	150	23.14	<.0001	0.05	2.7550 3.2694
TRTP	mCC	2.9438	0.1777	150	16.57	<.0001	0.05	2.5928 3.2949

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	1.5096	0.2535	150	5.96	<.0001	0.05 1.0088 2.0104
TRTP	THSm2.2	mCC	0.06839	0.2196	150	0.31	0.7559	0.05 -0.3656 0.5024
TRTP	THSm2.2	SA	-1.4412	0.2219	150	-6.49	<.0001	0.05 -1.8797 -1.0027
TRTP	mCC	SA	-1.5096	0.2535	150	-5.96	<.0001	0.05 -2.0104 -1.0088



**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_21
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.2807

Fit Statistics	
-2 Res Log Likelihood	487.6
AIC (Smaller is Better)	489.6
AICC (Smaller is Better)	489.6
BIC (Smaller is Better)	492.6

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	150	96.38	<.0001
SEX	1	150	0.11	0.7374
UCPDGR1	1	150	0.15	0.6974
TRTP	2	150	23.89	<.0001

		Least Squares Means				
		Planned	Standard			
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t  Alpha Lower Upper
TRTP	SA	4.3786	0.1819	150	24.07	<.0001 0.05 4.0192 4.7381
TRTP	THSm2.2	2.9516	0.1308	150	22.57	<.0001 0.05 2.6932 3.2100
TRTP	mCC	2.8911	0.1785	150	16.20	<.0001 0.05 2.5384 3.2438



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	4.3786	0.1819	150	24.07	<.0001	0.05	4.0192 4.7381
TRTP	THSm2.2	2.9516	0.1308	150	22.57	<.0001	0.05	2.6932 3.2100
TRTP	mCC	2.8911	0.1785	150	16.20	<.0001	0.05	2.5384 3.2438

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	1.4875	0.2547	150	5.84	<.0001	0.05 0.9843 1.9907
TRTP	THSm2.2	mCC	0.06051	0.2207	150	0.27	0.7843	0.05 -0.3755 0.4965
TRTP	THSm2.2	SA	-1.4270	0.2230	150	-6.40	<.0001	0.05 -1.8676 -0.9864
TRTP	mCC	SA	-1.4875	0.2547	150	-5.84	<.0001	0.05 -1.9907 -0.9843

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_22
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.3782

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	495.4
<b>AIC (Smaller is Better)</b>	497.4
<b>AICC (Smaller is Better)</b>	497.4
<b>BIC (Smaller is Better)</b>	500.4

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	149	60.83 <.0001
<b>SEX</b>	1	149	0.01 0.9270
<b>UCPDGR1</b>	1	149	0.76 0.3849
<b>TRTP</b>	2	149	2.17 0.1173

		<b>Least Squares Means</b>				
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.5971	0.1910 149	13.59	<.0001	0.05 2.2196 2.9746
<b>TRTP</b>	THSm2.2	3.0783	0.1357 149	22.69	<.0001	0.05 2.8102 3.3465
<b>TRTP</b>	mCC	2.9847	0.1851 149	16.12	<.0001	0.05 2.6189 3.3505



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.5971	0.1910	149	13.59	<.0001	0.05 2.2196 2.9746
TRTP	THSm2.2	3.0783	0.1357	149	22.69	<.0001	0.05 2.8102 3.3465
TRTP	mCC	2.9847	0.1851	149	16.12	<.0001	0.05 2.6189 3.3505

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.3876	0.2658	149	-1.46	0.1468	0.05	-0.9127 0.1376
TRTP	THSm2.2	mCC	0.09364	0.2289	149	0.41	0.6831	0.05	-0.3587 0.5460
TRTP	THSm2.2	SA	0.4812	0.2334	149	2.06	0.0409	0.05	0.02009 0.9423
TRTP	mCC	SA	0.3876	0.2658	149	1.46	0.1468	0.05	-0.1376 0.9127

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_23
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.5608

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	514.0
<b>AIC (Smaller is Better)</b>	516.0
<b>AICC (Smaller is Better)</b>	516.0
<b>BIC (Smaller is Better)</b>	519.0

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	149	46.02 <.0001
<b>SEX</b>	1	149	0.23 0.6325
<b>UCPDGR1</b>	1	149	0.05 0.8237
<b>TRTP</b>	2	149	3.57 0.0307

		<b>Least Squares Means</b>				
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.3938	0.2033 149	11.77	<.0001	0.05 1.9921 2.7956
<b>TRTP</b>	THSm2.2	3.0332	0.1444 149	21.01	<.0001	0.05 2.7479 3.3186
<b>TRTP</b>	mCC	2.9835	0.1970 149	15.14	<.0001	0.05 2.5942 3.3728





		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.3938	0.2033	149	11.77	<.0001	0.05 1.9921 2.7956
TRTP	THSm2.2	3.0332	0.1444	149	21.01	<.0001	0.05 2.7479 3.3186
TRTP	mCC	2.9835	0.1970	149	15.14	<.0001	0.05 2.5942 3.3728

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.5897	0.2828	149	-2.09	0.0388	0.05	-1.1485	-0.03085
TRTP	THSm2.2	mCC	0.04971	0.2436	149	0.20	0.8386	0.05	-0.4317	0.5311
TRTP	THSm2.2	SA	0.6394	0.2483	149	2.57	0.0110	0.05	0.1487	1.1301
TRTP	mCC	SA	0.5897	0.2828	149	2.09	0.0388	0.05	0.03085	1.1485

**Listing 15.4.4.36.2 Analysis of QSU-brief Factors and Total Scores - FAS**

The where clause used on the dataset adam.ADQSSU: FASFL=Y and ANL01FL=Y

Paramcd: QSUTOTAL, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_24
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	154

**Number of Observations**

<b>Number of Observations Read</b>	154
<b>Number of Observations Used</b>	154



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.4419

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	498.9
<b>AIC (Smaller is Better)</b>	500.9
<b>AICC (Smaller is Better)</b>	500.9
<b>BIC (Smaller is Better)</b>	503.9

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	148	52.10 <.0001
<b>SEX</b>	1	148	0.64 0.4241
<b>UCPDGR1</b>	1	148	1.87 0.1739
<b>TRTP</b>	2	148	9.59 0.0001

		<b>Least Squares Means</b>				
<b>Planned</b>		<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	2.1101	0.1954 148	10.80	<.0001	0.05 1.7240 2.4962
<b>TRTP</b>	THSm2.2	3.1457	0.1396 148	22.53	<.0001	0.05 2.8698 3.4217
<b>TRTP</b>	mCC	2.9427	0.1895 148	15.53	<.0001	0.05 2.5682 3.3171



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	2.1101	0.1954	148	10.80	<.0001	0.05 1.7240 2.4962
TRTP	THSm2.2	3.1457	0.1396	148	22.53	<.0001	0.05 2.8698 3.4217
TRTP	mCC	2.9427	0.1895	148	15.53	<.0001	0.05 2.5682 3.3171

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	-0.8325	0.2719	148	-3.06	0.0026	0.05	-1.3698 -0.2953
TRTP	THSm2.2	mCC	0.2031	0.2350	148	0.86	0.3888	0.05	-0.2612 0.6674
TRTP	THSm2.2	SA	1.0356	0.2392	148	4.33	<.0001	0.05	0.5629 1.5084
TRTP	mCC	SA	0.8325	0.2719	148	3.06	0.0026	0.05	0.2953 1.3698

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	2THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.5907

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	276.0
<b>AIC (Smaller is Better)</b>	278.0
<b>AICC (Smaller is Better)</b>	278.0
<b>BIC (Smaller is Better)</b>	280.7

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>Num</b>	<b>Den</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	111		26.37	<.0001
<b>SEX</b>	1	111		0.51	0.4774
<b>UCPDGR1</b>	1	111		0.03	0.8561
<b>TRTP</b>	1	111		0.19	0.6632

**Least Squares Means**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	1.6640	0.08941	111	18.61	<.0001	0.05	1.4869	1.8412
<b>TRTP</b>	mCC	1.5987	0.1211	111	13.21	<.0001	0.05	1.3588	1.8386

**Differences of Least Squares Means**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
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**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.06532	0.1496	111	0.44	0.6632	0.05	-0.2311	0.3617

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116





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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.8692

Fit Statistics	
-2 Res Log Likelihood	318.9
AIC (Smaller is Better)	320.9
AICC (Smaller is Better)	320.9
BIC (Smaller is Better)	323.6

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	111	18.52 <.0001
SEX	1	111	0.11 0.7417
UCPDGR1	1	111	1.22 0.2713
TRTP	1	111	0.31 0.5798

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.5687	0.1085 111	14.46	<.0001	0.05 1.3538 1.7836
TRTP	mCC	1.6694	0.1469 111	11.37	<.0001	0.05 1.3784 1.9604

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1008	0.1815	111	-0.56	0.5798	0.05	-0.4603	0.2588

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.4418

Fit Statistics	
-2 Res Log Likelihood	243.7
AIC (Smaller is Better)	245.7
AICC (Smaller is Better)	245.8
BIC (Smaller is Better)	248.5

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	111	44.60 <.0001
SEX	1	111	0.03 0.8621
UCPDGR1	1	111	0.68 0.4098
TRTP	1	111	0.38 0.5385

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.4977	0.07732 111	19.37	<.0001	0.05 1.3445 1.6509
TRTP	mCC	1.5775	0.1047 111	15.07	<.0001	0.05 1.3700 1.7850

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.07982	0.1294	111	-0.62	0.5385	0.05	-0.3362	0.1765

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.8274

Fit Statistics	
-2 Res Log Likelihood	313.4
AIC (Smaller is Better)	315.4
AICC (Smaller is Better)	315.4
BIC (Smaller is Better)	318.1

Type 3 Tests of Fixed Effects				
		Num	Den	
Effect	DF	DF	F Value	Pr > F
BASE	1	111	19.33	<.0001
SEX	1	111	1.34	0.2487
UCPDGR1	1	111	0.77	0.3830
TRTP	1	111	1.17	0.2810

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.4896	0.1058 111	14.08	<.0001	0.05 1.2799 1.6993
TRTP	mCC	1.6814	0.1433 111	11.74	<.0001	0.05 1.3975 1.9653

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.1918	0.1770	111	-1.08	0.2810	0.05	-0.5426	0.1590



**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_5
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.5761

Fit Statistics	
-2 Res Log Likelihood	273.2
AIC (Smaller is Better)	275.2
AICC (Smaller is Better)	275.2
BIC (Smaller is Better)	277.9

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	111	22.18 <.0001
SEX	1	111	0.17 0.6817
UCPDGR1	1	111	0.66 0.4186
TRTP	1	111	0.23 0.6322

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.5611	0.08830 111	17.68	<.0001	0.05 1.3862 1.7361
TRTP	mCC	1.4902	0.1196 111	12.46	<.0001	0.05 1.2533 1.7271

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.07092	0.1477	111	0.48	0.6322	0.05	-0.2218	0.3637

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT2FL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_6
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	115

**Number of Observations**

<b>Number of Observations Read</b>	115
<b>Number of Observations Used</b>	115



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.6015

Fit Statistics	
-2 Res Log Likelihood	275.6
AIC (Smaller is Better)	277.6
AICC (Smaller is Better)	277.7
BIC (Smaller is Better)	280.3

Type 3 Tests of Fixed Effects				
Effect	Num Den		F Value	Pr > F
	DF	DF		
BASE	1	110	24.20	<.0001
SEX	1	110	0.34	0.5628
UCPDGR1	1	110	0.15	0.7037
TRTP	1	110	0.05	0.8298

Least Squares Means						
Effect	Planned Treatment	Standard		t Value	Pr >  t	Alpha Lower Upper
		Estimate	Error DF			
TRTP	THSm2.2	1.5886	0.09075 110	17.50	<.0001	0.05 1.4088 1.7685
TRTP	mCC	1.6212	0.1222 110	13.27	<.0001	0.05 1.3791 1.8633

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.03259	0.1513	110	-0.22	0.8298	0.05	-0.3324	0.2672

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT3FL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_7
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	112

**Number of Observations**

<b>Number of Observations Read</b>	112
<b>Number of Observations Used</b>	112



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2627

Fit Statistics	
-2 Res Log Likelihood	179.7
AIC (Smaller is Better)	181.7
AICC (Smaller is Better)	181.8
BIC (Smaller is Better)	184.4

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	107	53.78 <.0001
SEX	1	107	0.10 0.7565
UCPDGR1	1	107	1.05 0.3079
TRTP	1	107	0.01 0.9355

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.4620	0.06131 107	23.85	<.0001	0.05 1.3404 1.5835
TRTP	mCC	1.4701	0.08073 107	18.21	<.0001	0.05 1.3101 1.6302



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.00816	0.1007	107	-0.08	0.9355	0.05	-0.2077	0.1914

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT4FL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_8
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	110

**Number of Observations**

<b>Number of Observations Read</b>	110
<b>Number of Observations Used</b>	110



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.6923

Fit Statistics	
-2 Res Log Likelihood	278.6
AIC (Smaller is Better)	280.6
AICC (Smaller is Better)	280.6
BIC (Smaller is Better)	283.2

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	105	29.40 <.0001
SEX	1	105	1.41 0.2372
UCPDGR1	1	105	0.96 0.3294
TRTP	1	105	0.89 0.3466

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.5675	0.1006 105	15.59	<.0001	0.05 1.3681 1.7669
TRTP	mCC	1.7231	0.1312 105	13.14	<.0001	0.05 1.4630 1.9832

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1556	0.1646	105	-0.95	0.3466	0.05	-0.4819	0.1707

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_9
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.6875

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	393.3
<b>AIC (Smaller is Better)</b>	395.3
<b>AICC (Smaller is Better)</b>	395.3
<b>BIC (Smaller is Better)</b>	398.0

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	39.28 <.0001
<b>SEX</b>	1	111	0.04 0.8438
<b>UCPDGR1</b>	1	111	0.03 0.8685
<b>TRTP</b>	1	111	4.51 0.0358

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.6518	0.1512 111	24.15	<.0001	0.05 3.3522 3.9514
<b>TRTP</b>	mCC	4.1902	0.2050 111	20.44	<.0001	0.05 3.7840 4.5964

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5384	0.2534	111	-2.12	0.0358	0.05	-1.0405	-0.03622

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_10
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.6335

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	389.7
<b>AIC (Smaller is Better)</b>	391.7
<b>AICC (Smaller is Better)</b>	391.7
<b>BIC (Smaller is Better)</b>	394.4

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	31.74 <.0001
<b>SEX</b>	1	111	0.00 0.9551
<b>UCPDGR1</b>	1	111	0.39 0.5322
<b>TRTP</b>	1	111	5.05 0.0267

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.5816	0.1488 111	24.08	<.0001	0.05 3.2869 3.8764
<b>TRTP</b>	mCC	4.1417	0.2017 111	20.53	<.0001	0.05 3.7420 4.5414

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5601	0.2493	111	-2.25	0.0267	0.05	-1.0541	-0.06598

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_11
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.4428

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	375.9
<b>AIC (Smaller is Better)</b>	377.9
<b>AICC (Smaller is Better)</b>	377.9
<b>BIC (Smaller is Better)</b>	380.6

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	23.72 <.0001
<b>SEX</b>	1	111	0.18 0.6746
<b>UCPDGR1</b>	1	111	1.10 0.2975
<b>TRTP</b>	1	111	1.35 0.2472

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.5688	0.1398 111	25.53	<.0001	0.05 3.2917 3.8458
<b>TRTP</b>	mCC	3.8414	0.1896 111	20.26	<.0001	0.05 3.4657 4.2170

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.2726	0.2343	111	-1.16	0.2472	0.05	-0.7369	0.1917

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_12
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.5212

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	381.7
<b>AIC (Smaller is Better)</b>	383.7
<b>AICC (Smaller is Better)</b>	383.8
<b>BIC (Smaller is Better)</b>	386.5

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	35.54 <.0001
<b>SEX</b>	1	111	0.36 0.5487
<b>UCPDGR1</b>	1	111	0.44 0.5084
<b>TRTP</b>	1	111	4.37 0.0388

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.4798	0.1435 111	24.24	<.0001	0.05 3.1953 3.7642
<b>TRTP</b>	mCC	3.9829	0.1946 111	20.46	<.0001	0.05 3.5972 4.3686

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5031	0.2406	111	-2.09	0.0388	0.05	-0.9799	-0.02636



**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_13
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.7766

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	399.0
<b>AIC (Smaller is Better)</b>	401.0
<b>AICC (Smaller is Better)</b>	401.0
<b>BIC (Smaller is Better)</b>	403.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	25.59 <.0001
<b>SEX</b>	1	111	0.45 0.5060
<b>UCPDGR1</b>	1	111	1.78 0.1854
<b>TRTP</b>	1	111	0.01 0.9239

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.6334	0.1551 111	23.42	<.0001	0.05 3.3260 3.9408
<b>TRTP</b>	mCC	3.6583	0.2104 111	17.39	<.0001	0.05 3.2415 4.0751

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	-0.02488	0.2600111		-0.10	0.9239	0.05	-0.5401	0.4904

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT2FL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_14
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	115

**Number of Observations**

<b>Number of Observations Read</b>	115
<b>Number of Observations Used</b>	115



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.5720

Fit Statistics	
-2 Res Log Likelihood	382.1
AIC (Smaller is Better)	384.1
AICC (Smaller is Better)	384.1
BIC (Smaller is Better)	386.8

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	110	19.12 <.0001
SEX	1	110	0.16 0.6880
UCPDGR1	1	110	1.43 0.2336
TRTP	1	110	0.20 0.6581

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.1945	0.1468	110	28.58	<.0001	0.05 3.9036 4.4854
TRTP	mCC	4.3033	0.1979	110	21.74	<.0001	0.05 3.9111 4.6955

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1088	0.2452	110	-0.44	0.6581	0.05	-0.5947	0.3771

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT3FL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_15
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	112

**Number of Observations**

<b>Number of Observations Read</b>	112
<b>Number of Observations Used</b>	112



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.7214

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	381.8
<b>AIC (Smaller is Better)</b>	383.8
<b>AICC (Smaller is Better)</b>	383.8
<b>BIC (Smaller is Better)</b>	386.5

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	107	18.43 <.0001
<b>SEX</b>	1	107	0.05 0.8159
<b>UCPDGR1</b>	1	107	0.92 0.3390
<b>TRTP</b>	1	107	0.26 0.6128

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	4.2160	0.1570 107	26.85	<.0001	0.05 3.9047 4.5273
<b>TRTP</b>	mCC	4.0848	0.2071 107	19.72	<.0001	0.05 3.6742 4.4954



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.1312	0.2585	107	0.51	0.6128	0.05	-0.3812	0.6435

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT4FL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_16
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	110

**Number of Observations**

<b>Number of Observations Read</b>	110
<b>Number of Observations Used</b>	110



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.3901

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	352.5
<b>AIC (Smaller is Better)</b>	354.5
<b>AICC (Smaller is Better)</b>	354.6
<b>BIC (Smaller is Better)</b>	357.2

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	105	23.61 <.0001
<b>SEX</b>	1	105	0.08 0.7796
<b>UCPDGR1</b>	1	105	2.08 0.1524
<b>TRTP</b>	1	105	0.40 0.5304

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	4.0767	0.1426 105	28.60	<.0001	0.05 3.7940 4.3593
<b>TRTP</b>	mCC	4.2238	0.1862 105	22.68	<.0001	0.05 3.8546 4.5930

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.1471	0.2337	105	-0.63	0.5304	0.05	-0.6106	0.3163

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_17
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.0363

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	339.3
<b>AIC (Smaller is Better)</b>	341.3
<b>AICC (Smaller is Better)</b>	341.4
<b>BIC (Smaller is Better)</b>	344.1

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	74.34 <.0001
<b>SEX</b>	1	111	0.00 0.9892
<b>UCPDGR1</b>	1	111	3.91 0.0503
<b>TRTP</b>	1	111	7.92 0.0058

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.0453	0.1184 111	25.72	<.0001	0.05 2.8107 3.2800
<b>TRTP</b>	mCC	3.6037	0.1606 111	22.43	<.0001	0.05 3.2854 3.9220

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5583	0.1984	111	-2.81	0.0058	0.05	-0.9515	-0.1652

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_18
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1507

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	351.0
<b>AIC (Smaller is Better)</b>	353.0
<b>AICC (Smaller is Better)</b>	353.0
<b>BIC (Smaller is Better)</b>	355.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	73.49 <.0001
<b>SEX</b>	1	111	0.17 0.6821
<b>UCPDGR1</b>	1	111	2.27 0.1345
<b>TRTP</b>	1	111	8.73 0.0038

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.0890	0.1248 111	24.75	<.0001	0.05 2.8417 3.3363
<b>TRTP</b>	mCC	3.7069	0.1693 111	21.90	<.0001	0.05 3.3715 4.0423

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.6179	0.2091	111	-2.96	0.0038	0.05	-1.0322	-0.2036

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_19
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.2632

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	361.3
<b>AIC (Smaller is Better)</b>	363.3
<b>AICC (Smaller is Better)</b>	363.4
<b>BIC (Smaller is Better)</b>	366.0

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	70.19 <.0001
<b>SEX</b>	1	111	0.00 0.9612
<b>UCPDGR1</b>	1	111	0.99 0.3225
<b>TRTP</b>	1	111	0.83 0.3640

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.2287	0.1307 111	24.70	<.0001	0.05 2.9697 3.4878
<b>TRTP</b>	mCC	3.4284	0.1773 111	19.33	<.0001	0.05 3.0770 3.7798

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1997	0.2191	111	-0.91	0.3640	0.05	-0.6337	0.2344

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_20
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.2706

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	362.0
<b>AIC (Smaller is Better)</b>	364.0
<b>AICC (Smaller is Better)</b>	364.0
<b>BIC (Smaller is Better)</b>	366.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	63.63 <.0001
<b>SEX</b>	1	111	0.43 0.5113
<b>UCPDGR1</b>	1	111	2.02 0.1577
<b>TRTP</b>	1	111	2.12 0.1486

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.2200	0.1311 111	24.56	<.0001	0.05 2.9602 3.4798
<b>TRTP</b>	mCC	3.5396	0.1779 111	19.90	<.0001	0.05 3.1872 3.8920

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.3196	0.2197	111	-1.45	0.1486	0.05	-0.7549	0.1158



**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_21
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1621

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	352.1
<b>AIC (Smaller is Better)</b>	354.1
<b>AICC (Smaller is Better)</b>	354.1
<b>BIC (Smaller is Better)</b>	356.8

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	58.55 <.0001
<b>SEX</b>	1	111	0.81 0.3687
<b>UCPDGR1</b>	1	111	4.09 0.0456
<b>TRTP</b>	1	111	0.38 0.5386

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.2607	0.1254 111	26.00	<.0001	0.05 3.0122 3.5092
<b>TRTP</b>	mCC	3.3903	0.1701 111	19.93	<.0001	0.05 3.0532 3.7274

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1296	0.2101	111	-0.62	0.5386	0.05	-0.5460	0.2867

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT2FL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_22
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	115

**Number of Observations**

<b>Number of Observations Read</b>	115
<b>Number of Observations Used</b>	115



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.4361

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	372.3
<b>AIC (Smaller is Better)</b>	374.3
<b>AICC (Smaller is Better)</b>	374.4
<b>BIC (Smaller is Better)</b>	377.0

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	110	30.83 <.0001
<b>SEX</b>	1	110	0.88 0.3502
<b>UCPDGR1</b>	1	110	0.28 0.5997
<b>TRTP</b>	1	110	0.36 0.5519

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.8375	0.1402 110	27.37	<.0001	0.05 3.5597 4.1154
<b>TRTP</b>	mCC	3.6979	0.1891 110	19.56	<.0001	0.05 3.3232 4.0726

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.1397	0.2341	110	0.60	0.5519	0.05	-0.3242	0.6035

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT3FL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_23
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	112

**Number of Observations**

<b>Number of Observations Read</b>	112
<b>Number of Observations Used</b>	112



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.5152

Fit Statistics	
-2 Res Log Likelihood	368.4
AIC (Smaller is Better)	370.4
AICC (Smaller is Better)	370.4
BIC (Smaller is Better)	373.0

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	107	31.67 <.0001
SEX	1	107	0.43 0.5126
UCPDGR1	1	107	0.17 0.6797
TRTP	1	107	0.65 0.4230

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.8381	0.1473	107	26.06	<.0001	0.05 3.5462 4.1300
TRTP	mCC	3.6434	0.1942	107	18.76	<.0001	0.05 3.2585 4.0283



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.1947	0.2421	107	0.80	0.4230	0.05	-0.2852	0.6746

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT4FL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_24
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	110

**Number of Observations**

<b>Number of Observations Read</b>	110
<b>Number of Observations Used</b>	110



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.4661

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	358.3
<b>AIC (Smaller is Better)</b>	360.3
<b>AICC (Smaller is Better)</b>	360.4
<b>BIC (Smaller is Better)</b>	363.0

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	105	24.38 <.0001
<b>SEX</b>	1	105	0.05 0.8198
<b>UCPDGR1</b>	1	105	0.92 0.3397
<b>TRTP</b>	1	105	1.57 0.2137

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.7728	0.1463 105	25.79	<.0001	0.05 3.4827 4.0629
<b>TRTP</b>	mCC	3.4729	0.1911 105	18.17	<.0001	0.05 3.0939 3.8518

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	0.2999	0.2397	105	1.25	0.2137	0.05	-0.1754	0.7752

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_25
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.6182

Fit Statistics	
-2 Res Log Likelihood	281.5
AIC (Smaller is Better)	283.5
AICC (Smaller is Better)	283.6
BIC (Smaller is Better)	286.2

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	111	111.24	<.0001
SEX	1	111	0.01	0.9358
UCPDGR1	1	111	0.56	0.4554
TRTP	1	111	7.04	0.0092

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.6727	0.09164 111	29.16	<.0001	0.05 2.4912 2.8543
TRTP	mCC	3.0806	0.1242 111	24.80	<.0001	0.05 2.8345 3.3268

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.4079	0.1538	111	-2.65	0.0092	0.05	-0.7126	-0.1032

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_26
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116





Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.6421

Fit Statistics	
-2 Res Log Likelihood	285.7
AIC (Smaller is Better)	287.7
AICC (Smaller is Better)	287.8
BIC (Smaller is Better)	290.5

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	111	130.05	<.0001
SEX	1	111	0.09	0.7598
UCPDGR1	1	111	0.07	0.7850
TRTP	1	111	5.02	0.0271

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.7357	0.09340	111	29.29	<.0001	0.05 2.5507 2.9208
TRTP	mCC	3.0868	0.1266	111	24.39	<.0001	0.05 2.8360 3.3376

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.3511	0.1567	111	-2.24	0.0271	0.05	-0.6616	-0.04053

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_27
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.6819

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	292.4
<b>AIC (Smaller is Better)</b>	294.4
<b>AICC (Smaller is Better)</b>	294.5
<b>BIC (Smaller is Better)</b>	297.1

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	98.88 <.0001
<b>SEX</b>	1	111	0.87 0.3535
<b>UCPDGR1</b>	1	111	0.18 0.6730
<b>TRTP</b>	1	111	2.70 0.1031

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.7278	0.09625 111	28.34	<.0001	0.05 2.5371 2.9185
<b>TRTP</b>	mCC	2.9932	0.1305 111	22.94	<.0001	0.05 2.7347 3.2517

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.2654	0.1615 111	-1.64	0.1031	0.05	-0.5854	0.05461

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_28
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.7061

Fit Statistics	
-2 Res Log Likelihood	296.3
AIC (Smaller is Better)	298.3
AICC (Smaller is Better)	298.3
BIC (Smaller is Better)	301.0

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	111	118.72	<.0001
SEX	1	111	0.68	0.4100
UCPDGR1	1	111	0.05	0.8252
TRTP	1	111	2.06	0.1540

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.7332	0.09794 111	27.91	<.0001	0.05 2.5392 2.9273
TRTP	mCC	2.9691	0.1327 111	22.37	<.0001	0.05 2.7061 3.2322

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.2359	0.1643 111	-1.44	0.1540	0.05	-0.5615	0.08977



**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_29
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.6064

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	279.4
<b>AIC (Smaller is Better)</b>	281.4
<b>AICC (Smaller is Better)</b>	281.4
<b>BIC (Smaller is Better)</b>	284.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	111	121.22	<.0001
<b>SEX</b>	1	111	0.05	0.8193
<b>UCPDGR1</b>	1	111	0.09	0.7613
<b>TRTP</b>	1	111	1.82	0.1800

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.7202	0.09076 111	29.97	<.0001	0.05 2.5403 2.9000
<b>TRTP</b>	mCC	2.9257	0.1230 111	23.78	<.0001	0.05 2.6819 3.1694

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.2055	0.1523 111	-1.35	0.1800	0.05	-0.5072	0.09630

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT2FL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_30
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	115

**Number of Observations**

<b>Number of Observations Read</b>	115
<b>Number of Observations Used</b>	115



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.6145

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	278.5
<b>AIC (Smaller is Better)</b>	280.5
<b>AICC (Smaller is Better)</b>	280.5
<b>BIC (Smaller is Better)</b>	283.2

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	110	96.68 <.0001
<b>SEX</b>	1	110	0.04 0.8378
<b>UCPDGR1</b>	1	110	0.00 0.9793
<b>TRTP</b>	1	110	0.80 0.3739

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.0412	0.09190	110	33.09	<.0001	0.05 2.8590 3.2233
<b>TRTP</b>	mCC	3.1783	0.1238	110	25.67	<.0001	0.05 2.9329 3.4237

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.1371	0.1536	110	-0.89	0.3739	0.05	-0.4416	0.1673

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT3FL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_31
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	112

**Number of Observations**

<b>Number of Observations Read</b>	112
<b>Number of Observations Used</b>	112



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.9116

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	313.5
<b>AIC (Smaller is Better)</b>	315.5
<b>AICC (Smaller is Better)</b>	315.5
<b>BIC (Smaller is Better)</b>	318.2

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	107	60.58 <.0001
<b>SEX</b>	1	107	0.03 0.8587
<b>UCPDGR1</b>	1	107	0.03 0.8679
<b>TRTP</b>	1	107	0.05 0.8161

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.0909	0.1144 107	27.02	<.0001	0.05 2.8642 3.3177
<b>TRTP</b>	mCC	3.0471	0.1507 107	20.22	<.0001	0.05 2.7484 3.3457



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	0.04387	0.1882	107	0.23	0.8161	0.05	-0.3292	0.4170

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT4FL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_32
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	110

**Number of Observations**

<b>Number of Observations Read</b>	110
<b>Number of Observations Used</b>	110



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.8475

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	300.3
<b>AIC (Smaller is Better)</b>	302.3
<b>AICC (Smaller is Better)</b>	302.4
<b>BIC (Smaller is Better)</b>	305.0

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	105	66.08 <.0001
<b>SEX</b>	1	105	0.34 0.5591
<b>UCPDGR1</b>	1	105	0.00 0.9517
<b>TRTP</b>	1	105	0.00 0.9831

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.0085	0.1114 105	27.00	<.0001	0.05	2.7876 3.2294
<b>TRTP</b>	mCC	3.0124	0.1454 105	20.72	<.0001	0.05	2.7242 3.3006

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.00387	0.1826	105	-0.02	0.9831	0.05	-0.3660	0.3583

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_33
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.9957

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	334.4
<b>AIC (Smaller is Better)</b>	336.4
<b>AICC (Smaller is Better)</b>	336.5
<b>BIC (Smaller is Better)</b>	339.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	111	42.48	<.0001
<b>SEX</b>	1	111	2.62	0.1087
<b>UCPDGR1</b>	1	111	0.01	0.9056
<b>TRTP</b>	1	111	19.66	<.0001

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.0873	0.1163 111	26.54	<.0001	0.05 2.8568 3.3178
<b>TRTP</b>	mCC	3.9523	0.1576 111	25.08	<.0001	0.05 3.6401 4.2645

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.8650	0.1951	111	-4.43	<.0001	0.05	-1.2516	-0.4784

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_34
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116





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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.8652

Fit Statistics	
-2 Res Log Likelihood	318.8
AIC (Smaller is Better)	320.8
AICC (Smaller is Better)	320.9
BIC (Smaller is Better)	323.5

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	111	54.80 <.0001
SEX	1	111	0.14 0.7080
UCPDGR1	1	111	1.41 0.2371
TRTP	1	111	22.56 <.0001

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.2570	0.1084 111	30.04	<.0001	0.05 3.0421 3.4718
TRTP	mCC	4.1208	0.1469 111	28.06	<.0001	0.05 3.8298 4.4119

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.8639	0.1819	111	-4.75	<.0001	0.05	-1.2242	-0.5035

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_35
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.0882

Fit Statistics	
-2 Res Log Likelihood	344.3
AIC (Smaller is Better)	346.3
AICC (Smaller is Better)	346.3
BIC (Smaller is Better)	349.0

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	111	44.60 <.0001
SEX	1	111	0.00 0.9729
UCPDGR1	1	111	0.42 0.5195
TRTP	1	111	6.90 0.0098

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.3972	0.1216 111	27.93	<.0001	0.05 3.1562 3.6382
TRTP	mCC	3.9329	0.1647 111	23.88	<.0001	0.05 3.6065 4.2593

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5357	0.2040	111	-2.63	0.0098	0.05	-0.9399	-0.1316

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_36
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.2133

Fit Statistics	
-2 Res Log Likelihood	356.4
AIC (Smaller is Better)	358.4
AICC (Smaller is Better)	358.4
BIC (Smaller is Better)	361.1

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF F Value	Pr > F
BASE	1 111	38.50	<.0001
SEX	1 111	0.19	0.6630
UCPDGR1	1 111	1.04	0.3111
TRTP	1 111	5.99	0.0160

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.3888	0.1284 111	26.39	<.0001	0.05 3.1344 3.6433
TRTP	mCC	3.9158	0.1739 111	22.51	<.0001	0.05 3.5711 4.2604

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5269	0.2154	111	-2.45	0.0160	0.05	-0.9537	-0.1002



**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT1FL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_37
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1537

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	350.8
<b>AIC (Smaller is Better)</b>	352.8
<b>AICC (Smaller is Better)</b>	352.8
<b>BIC (Smaller is Better)</b>	355.5

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	35.32 <.0001
<b>SEX</b>	1	111	0.17 0.6806
<b>UCPDGR1</b>	1	111	0.25 0.6189
<b>TRTP</b>	1	111	3.39 0.0684

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.5052	0.1252 111	27.99	<.0001	0.05 3.2570 3.7533
<b>TRTP</b>	mCC	3.8917	0.1696 111	22.95	<.0001	0.05 3.5556 4.2277

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.3865	0.2100 111	-1.84	0.0684	0.05	-0.8026	0.02966

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT2FL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_38
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	115

**Number of Observations**

<b>Number of Observations Read</b>	115
<b>Number of Observations Used</b>	115



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.8233

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	310.6
<b>AIC (Smaller is Better)</b>	312.6
<b>AICC (Smaller is Better)</b>	312.7
<b>BIC (Smaller is Better)</b>	315.3

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	110	37.13 <.0001
<b>SEX</b>	1	110	0.07 0.7916
<b>UCPDGR1</b>	1	110	0.01 0.9099
<b>TRTP</b>	1	110	3.09 0.0818

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.8337	0.1064 110	36.02	<.0001	0.05 3.6228 4.0446
<b>TRTP</b>	mCC	4.1461	0.1433 110	28.93	<.0001	0.05 3.8621 4.4301

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.3125	0.1779 110	-1.76	0.0818	0.05	-0.6650	0.04007

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT3FL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_39
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	112

**Number of Observations**

<b>Number of Observations Read</b>	112
<b>Number of Observations Used</b>	112



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.2374

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	346.2
<b>AIC (Smaller is Better)</b>	348.2
<b>AICC (Smaller is Better)</b>	348.2
<b>BIC (Smaller is Better)</b>	350.9

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	107	29.70 <.0001
<b>SEX</b>	1	107	0.00 0.9806
<b>UCPDGR1</b>	1	107	0.03 0.8573
<b>TRTP</b>	1	107	0.90 0.3440

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.7927	0.1333 107	28.44	<.0001	0.05 3.5284 4.0570
<b>TRTP</b>	mCC	4.0012	0.1756 107	22.79	<.0001	0.05 3.6532 4.3493



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.2085	0.2194	107	-0.95	0.3440	0.05	-0.6435	0.2264

**Listing 15.4.4.38.1 Analysis of MCEQ Subscales - PP Set**

The where clause used on the dataset adam.Adqspa: PPROT4FL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_40
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	110

**Number of Observations**

<b>Number of Observations Read</b>	110
<b>Number of Observations Used</b>	110



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.0035

Fit Statistics	
-2 Res Log Likelihood	318.0
AIC (Smaller is Better)	320.0
AICC (Smaller is Better)	320.0
BIC (Smaller is Better)	322.6

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	105	37.13 <.0001
SEX	1	105	0.14 0.7135
UCPDGR1	1	105	1.36 0.2457
TRTP	1	105	0.00 0.9683

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.8941	0.1214 105	32.08	<.0001	0.05 3.6534 4.1348
TRTP	mCC	3.8862	0.1584 105	24.54	<.0001	0.05 3.5721 4.2002

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.007946	0.1993105	0.04	0.9683	0.05	-0.3872	0.4031	

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	2THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.6031

**Fit Statistics**

-2 Res Log Likelihood	283.0
AIC (Smaller is Better)	285.0
AICC (Smaller is Better)	285.1
BIC (Smaller is Better)	287.7

**Type 3 Tests of Fixed Effects**

Effect	Num	Den	DF	F Value	Pr > F
BASE	1	113		24.59	<.0001
SEX	1	113		0.32	0.5745
UCPDGR1	1	113		0.16	0.6884
TRTP	1	113		0.32	0.5702

**Least Squares Means**

Effect	Planned Treatment	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	1.6793	0.08938	113	18.79	<.0001	0.05	1.5022	1.8564
TRTP	mCC	1.5936	0.1223	113	13.03	<.0001	0.05	1.3513	1.8360

**Differences of Least Squares Means**

Effect	Planned Treatment	Planned Treatment	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
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**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.08566	0.1504	113	0.57	0.5702	0.05	-0.2124	0.3837

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117





Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.8618

Fit Statistics	
-2 Res Log Likelihood	320.6
AIC (Smaller is Better)	322.6
AICC (Smaller is Better)	322.7
BIC (Smaller is Better)	325.4

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	112	18.75 <.0001
SEX	1	112	0.10 0.7533
UCPDGR1	1	112	1.29 0.2585
TRTP	1	112	0.30 0.5876

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.5726	0.1074 112	14.64	<.0001	0.05 1.3598 1.7854
TRTP	mCC	1.6706	0.1462 112	11.42	<.0001	0.05 1.3809 1.9604

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.09808	0.1803	112	-0.54	0.5876	0.05	-0.4554	0.2592

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.4382

Fit Statistics	
-2 Res Log Likelihood	244.9
AIC (Smaller is Better)	246.9
AICC (Smaller is Better)	246.9
BIC (Smaller is Better)	249.6

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	112	44.89 <.0001
SEX	1	112	0.04 0.8441
UCPDGR1	1	112	0.65 0.4207
TRTP	1	112	0.41 0.5242

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.4967	0.07658 112	19.54	<.0001	0.05 1.3450 1.6484
TRTP	mCC	1.5788	0.1043 112	15.14	<.0001	0.05 1.3722 1.7855

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.08216	0.1286	112	-0.64	0.5242	0.05	-0.3369	0.1726

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.8208

Fit Statistics	
-2 Res Log Likelihood	315.2
AIC (Smaller is Better)	317.2
AICC (Smaller is Better)	317.2
BIC (Smaller is Better)	319.9

Type 3 Tests of Fixed Effects				
Effect	Num Den		F Value	Pr > F
	DF	DF		
BASE	1	112	19.41	<.0001
SEX	1	112	1.31	0.2557
UCPDGR1	1	112	0.73	0.3953
TRTP	1	112	1.23	0.2691

Least Squares Means						
Effect	Planned Treatment	Standard		t Value	Pr >  t	Alpha Lower Upper
		Estimate	Error DF			
TRTP	THSm2.2	1.4872	0.1048 112	14.19	<.0001	0.05 1.2795 1.6949
TRTP	mCC	1.6826	0.1427 112	11.79	<.0001	0.05 1.3999 1.9654

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1955	0.1760	112	-1.11	0.2691	0.05	-0.5441	0.1532



**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_5
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.5724

Fit Statistics	
-2 Res Log Likelihood	274.8
AIC (Smaller is Better)	276.8
AICC (Smaller is Better)	276.8
BIC (Smaller is Better)	279.5

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	112	22.49 <.0001
SEX	1	112	0.14 0.7087
UCPDGR1	1	112	0.59 0.4422
TRTP	1	112	0.27 0.6074

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.5670	0.08753 112	17.90	<.0001	0.05 1.3936 1.7404
TRTP	mCC	1.4913	0.1192 112	12.51	<.0001	0.05 1.2551 1.7274

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.07572	0.1470112	0.52	0.6074	0.05	-0.2155	0.3669	

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_6
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.5978

Fit Statistics	
-2 Res Log Likelihood	279.7
AIC (Smaller is Better)	281.7
AICC (Smaller is Better)	281.7
BIC (Smaller is Better)	284.4

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	112	25.04 <.0001
SEX	1	112	0.28 0.5961
UCPDGR1	1	112	0.10 0.7481
TRTP	1	112	0.03 0.8629

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.5945	0.08945	112	17.83	<.0001	0.05 1.4172 1.7717
TRTP	mCC	1.6204	0.1218	112	13.30	<.0001	0.05 1.3791 1.8618

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.02599	0.1502	112	-0.17	0.8629	0.05	-0.3236	0.2716

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_7
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2694

Fit Statistics	
-2 Res Log Likelihood	190.4
AIC (Smaller is Better)	192.4
AICC (Smaller is Better)	192.4
BIC (Smaller is Better)	195.1

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	112	64.68	<.0001
SEX	1	112	0.30	0.5825
UCPDGR1	1	112	1.34	0.2490
TRTP	1	112	0.06	0.8124

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.5194	0.06005 112	25.30	<.0001	0.05 1.4004 1.6384
TRTP	mCC	1.4954	0.08177 112	18.29	<.0001	0.05 1.3334 1.6575



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.02398	0.1008	112	0.24	0.8124	0.05	-0.1758	0.2238

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQA, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_8
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.6658

Fit Statistics	
-2 Res Log Likelihood	289.3
AIC (Smaller is Better)	291.3
AICC (Smaller is Better)	291.3
BIC (Smaller is Better)	294.0

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	111	33.96	<.0001
SEX	1	111	1.24	0.2684
UCPDGR1	1	111	0.90	0.3451
TRTP	1	111	0.93	0.3376

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	1.5651	0.09491 111	16.49	<.0001	0.05 1.3770 1.7532
TRTP	mCC	1.7182	0.1286 111	13.37	<.0001	0.05 1.4634 1.9729

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1531	0.1590	111	-0.96	0.3376	0.05	-0.4680	0.1619

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_9
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.6642

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	398.5
<b>AIC (Smaller is Better)</b>	400.5
<b>AICC (Smaller is Better)</b>	400.6
<b>BIC (Smaller is Better)</b>	403.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	113	43.80	<.0001
<b>SEX</b>	1	113	0.06	0.8041
<b>UCPDGR1</b>	1	113	0.05	0.8163
<b>TRTP</b>	1	113	4.45	0.0372

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.6860	0.1485 113	24.82	<.0001	0.05 3.3918 3.9801
<b>TRTP</b>	mCC	4.2133	0.2033 113	20.72	<.0001	0.05 3.8106 4.6161

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5274	0.2501	113	-2.11	0.0372	0.05	-1.0228	-0.03195

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_10
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117





Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.6609

Fit Statistics	
-2 Res Log Likelihood	394.9
AIC (Smaller is Better)	396.9
AICC (Smaller is Better)	396.9
BIC (Smaller is Better)	399.6

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	112	35.70 <.0001
SEX	1	112	0.04 0.8447
UCPDGR1	1	112	0.23 0.6294
TRTP	1	112	4.43 0.0375

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.6206	0.1491	112	24.28	<.0001	0.05 3.3252 3.9161
TRTP	mCC	4.1485	0.2032	112	20.41	<.0001	0.05 3.7458 4.5513

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5279	0.2507	112	-2.11	0.0375	0.05	-1.0246	-0.03120

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_11
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.4858

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	382.4
<b>AIC (Smaller is Better)</b>	384.4
<b>AICC (Smaller is Better)</b>	384.5
<b>BIC (Smaller is Better)</b>	387.1

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	27.46 <.0001
<b>SEX</b>	1	112	0.06 0.8068
<b>UCPDGR1</b>	1	112	0.75 0.3892
<b>TRTP</b>	1	112	0.99 0.3228

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.6102	0.1411 112	25.59	<.0001	0.05 3.3307 3.8896
<b>TRTP</b>	mCC	3.8456	0.1922 112	20.00	<.0001	0.05 3.4647 4.2265

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.2355	0.2371	112	-0.99	0.3228	0.05	-0.7053	0.2343

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_12
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.5206

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	385.0
<b>AIC (Smaller is Better)</b>	387.0
<b>AICC (Smaller is Better)</b>	387.1
<b>BIC (Smaller is Better)</b>	389.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	112	38.83	<.0001
<b>SEX</b>	1	112	0.47	0.4945
<b>UCPDGR1</b>	1	112	0.34	0.5602
<b>TRTP</b>	1	112	4.09	0.0455

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.5065	0.1427 112	24.57	<.0001	0.05 3.2238 3.7893
<b>TRTP</b>	mCC	3.9917	0.1945 112	20.52	<.0001	0.05 3.6064 4.3771

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.4852	0.2399	112	-2.02	0.0455	0.05	-0.9605	-0.00993



**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_13
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.8043

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	404.2
<b>AIC (Smaller is Better)</b>	406.2
<b>AICC (Smaller is Better)</b>	406.2
<b>BIC (Smaller is Better)</b>	408.9

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	29.07 <.0001
<b>SEX</b>	1	112	0.64 0.4246
<b>UCPDGR1</b>	1	112	1.42 0.2364
<b>TRTP</b>	1	112	0.00 0.9760

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.6723	0.1554 112	23.63	<.0001	0.05 3.3643 3.9803
<b>TRTP</b>	mCC	3.6644	0.2118 112	17.30	<.0001	0.05 3.2447 4.0842

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.007883	0.2613	112	0.03	0.9760	0.05	-0.5098	0.5256

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_14
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.5536

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	387.4
<b>AIC (Smaller is Better)</b>	389.4
<b>AICC (Smaller is Better)</b>	389.5
<b>BIC (Smaller is Better)</b>	392.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	112	21.24	<.0001
<b>SEX</b>	1	112	0.13	0.7229
<b>UCPDGR1</b>	1	112	1.35	0.2469
<b>TRTP</b>	1	112	0.16	0.6899

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	4.2149	0.1442 112	29.22	<.0001	0.05 3.9291 4.5006
<b>TRTP</b>	mCC	4.3119	0.1966 112	21.93	<.0001	0.05 3.9224 4.7014

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	-0.09700	0.2425112	-0.40	0.6899	0.05	-0.5774	0.3834	

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_15
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.6802

Fit Statistics	
-2 Res Log Likelihood	396.2
AIC (Smaller is Better)	398.2
AICC (Smaller is Better)	398.2
BIC (Smaller is Better)	400.9

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	112	20.74 <.0001
SEX	1	112	0.05 0.8167
UCPDGR1	1	112	0.61 0.4367
TRTP	1	112	0.18 0.6737

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.2003	0.1500 112	28.00	<.0001	0.05 3.9031 4.4975
TRTP	mCC	4.0938	0.2044 112	20.03	<.0001	0.05 3.6888 4.4989



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.1065	0.2521	112	0.42	0.6737	0.05	-0.3931	0.6060

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQCR, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_16
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.3685

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	370.0
<b>AIC (Smaller is Better)</b>	372.0
<b>AICC (Smaller is Better)</b>	372.1
<b>BIC (Smaller is Better)</b>	374.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	28.47 <.0001
<b>SEX</b>	1	111	0.01 0.9378
<b>UCPDGR1</b>	1	111	3.01 0.0858
<b>TRTP</b>	1	111	0.23 0.6348

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	4.1116	0.1361 111	30.21	<.0001	0.05 3.8418 4.3813
<b>TRTP</b>	mCC	4.2203	0.1846 111	22.87	<.0001	0.05 3.8546 4.5860

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1087	0.2282	111	-0.48	0.6348	0.05	-0.5610	0.3436

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_17
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.0303

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	344.5
<b>AIC (Smaller is Better)</b>	346.5
<b>AICC (Smaller is Better)</b>	346.5
<b>BIC (Smaller is Better)</b>	349.2

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	113	75.93 <.0001
<b>SEX</b>	1	113	0.00 0.9925
<b>UCPDGR1</b>	1	113	4.62 0.0338
<b>TRTP</b>	1	113	7.92 0.0058

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.0632	0.1168 113	26.22	<.0001	0.05 2.8318 3.2947
<b>TRTP</b>	mCC	3.6176	0.1603 113	22.57	<.0001	0.05 3.3001 3.9351

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5544	0.1970	113	-2.81	0.0058	0.05	-0.9448	-0.1641

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_18
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1497

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	353.9
<b>AIC (Smaller is Better)</b>	355.9
<b>AICC (Smaller is Better)</b>	355.9
<b>BIC (Smaller is Better)</b>	358.6

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	74.98 <.0001
<b>SEX</b>	1	112	0.12 0.7267
<b>UCPDGR1</b>	1	112	2.56 0.1124
<b>TRTP</b>	1	112	8.44 0.0044

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.1079	0.1240 112	25.05	<.0001	0.05 2.8621 3.3537
<b>TRTP</b>	mCC	3.7140	0.1692 112	21.94	<.0001	0.05 3.3787 4.0493

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.6061	0.2086	112	-2.91	0.0044	0.05	-1.0195	-0.1928

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_19
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.2520

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	363.4
<b>AIC (Smaller is Better)</b>	365.4
<b>AICC (Smaller is Better)</b>	365.5
<b>BIC (Smaller is Better)</b>	368.1

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	71.02 <.0001
<b>SEX</b>	1	112	0.00 0.9559
<b>UCPDGR1</b>	1	112	0.99 0.3227
<b>TRTP</b>	1	112	0.85 0.3580

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.2341	0.1294 112	24.99	<.0001	0.05 2.9776 3.4906
<b>TRTP</b>	mCC	3.4350	0.1766 112	19.45	<.0001	0.05 3.0851 3.7850

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.2009	0.2177	112	-0.92	0.3580	0.05	-0.6323	0.2304

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_20
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.2595

Fit Statistics	
-2 Res Log Likelihood	364.1
AIC (Smaller is Better)	366.1
AICC (Smaller is Better)	366.1
BIC (Smaller is Better)	368.8

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	112	64.29	<.0001
SEX	1	112	0.43	0.5154
UCPDGR1	1	112	2.02	0.1585
TRTP	1	112	2.17	0.1434

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.2242	0.1298 112	24.83	<.0001	0.05 2.9669 3.4814
TRTP	mCC	3.5459	0.1771 112	20.02	<.0001	0.05 3.1949 3.8969

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.3217	0.2184	112	-1.47	0.1434	0.05	-0.7544	0.1109



**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_21
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1523

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	354.1
<b>AIC (Smaller is Better)</b>	356.1
<b>AICC (Smaller is Better)</b>	356.2
<b>BIC (Smaller is Better)</b>	358.9

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	59.09 <.0001
<b>SEX</b>	1	112	0.80 0.3733
<b>UCPDGR1</b>	1	112	4.08 0.0459
<b>TRTP</b>	1	112	0.40 0.5275

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.2637	0.1242 112	26.28	<.0001	0.05	3.0176 3.5097
<b>TRTP</b>	mCC	3.3960	0.1694 112	20.04	<.0001	0.05	3.0603 3.7317

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1324	0.2089	112	-0.63	0.5275	0.05	-0.5462	0.2814

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_22
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.4287

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	378.2
<b>AIC (Smaller is Better)</b>	380.2
<b>AICC (Smaller is Better)</b>	380.3
<b>BIC (Smaller is Better)</b>	382.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	112	32.01	<.0001
<b>SEX</b>	1	112	1.02	0.3139
<b>UCPDGR1</b>	1	112	0.39	0.5320
<b>TRTP</b>	1	112	0.44	0.5091

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.8588	0.1383 112	27.91	<.0001	0.05 3.5849 4.1328
<b>TRTP</b>	mCC	3.7048	0.1887 112	19.64	<.0001	0.05 3.3310 4.0786

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.1540	0.2326	112	0.66	0.5091	0.05	-0.3067	0.6148

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_23
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.4975

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	383.5
<b>AIC (Smaller is Better)</b>	385.5
<b>AICC (Smaller is Better)</b>	385.5
<b>BIC (Smaller is Better)</b>	388.2

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	30.43 <.0001
<b>SEX</b>	1	112	0.75 0.3873
<b>UCPDGR1</b>	1	112	0.05 0.8248
<b>TRTP</b>	1	112	0.36 0.5509

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.7953	0.1416 112	26.81	<.0001	0.05 3.5148 4.0758
<b>TRTP</b>	mCC	3.6529	0.1932 112	18.91	<.0001	0.05 3.2702 4.0356



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.1424	0.2381	112	0.60	0.5509	0.05	-0.3293	0.6142

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQERTS, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_24
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.4111

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	373.6
<b>AIC (Smaller is Better)</b>	375.6
<b>AICC (Smaller is Better)</b>	375.6
<b>BIC (Smaller is Better)</b>	378.3

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	111	25.93 <.0001
<b>SEX</b>	1	111	0.02 0.8764
<b>UCPDGR1</b>	1	111	0.66 0.4188
<b>TRTP</b>	1	111	1.81 0.1816

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.7995	0.1382 111	27.50	<.0001	0.05 3.5257 4.0733
<b>TRTP</b>	mCC	3.4877	0.1876 111	18.59	<.0001	0.05 3.1159 3.8595

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	0.3118	0.2319	111	1.34	0.1816	0.05	-0.1478	0.7714

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_25
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.6654

Fit Statistics	
-2 Res Log Likelihood	294.6
AIC (Smaller is Better)	296.6
AICC (Smaller is Better)	296.7
BIC (Smaller is Better)	299.3

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	113	103.17	<.0001
SEX	1	113	0.09	0.7659
UCPDGR1	1	113	1.14	0.2878
TRTP	1	113	5.63	0.0193

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.6951	0.09405 113	28.66	<.0001	0.05 2.5087 2.8814
TRTP	mCC	3.0718	0.1288 113	23.85	<.0001	0.05 2.8165 3.3270

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.3767	0.1587	113	-2.37	0.0193	0.05	-0.6912	-0.06223

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_26
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.6365

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	287.2
<b>AIC (Smaller is Better)</b>	289.2
<b>AICC (Smaller is Better)</b>	289.2
<b>BIC (Smaller is Better)</b>	291.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	112	131.51	<.0001
<b>SEX</b>	1	112	0.10	0.7519
<b>UCPDGR1</b>	1	112	0.07	0.7910
<b>TRTP</b>	1	112	5.12	0.0256

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.7325	0.09246 112	29.55	<.0001	0.05 2.5494 2.9157
<b>TRTP</b>	mCC	3.0848	0.1260 112	24.48	<.0001	0.05 2.8351 3.3344

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.3522	0.1557	112	-2.26	0.0256	0.05	-0.6607	-0.04379

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_27
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.6762

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	294.0
<b>AIC (Smaller is Better)</b>	296.0
<b>AICC (Smaller is Better)</b>	296.0
<b>BIC (Smaller is Better)</b>	298.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	99.69 <.0001
<b>SEX</b>	1	112	0.85 0.3593
<b>UCPDGR1</b>	1	112	0.16 0.6862
<b>TRTP</b>	1	112	2.68 0.1042

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.7284	0.09530 112	28.63	<.0001	0.05 2.5395 2.9172
<b>TRTP</b>	mCC	2.9912	0.1299 112	23.03	<.0001	0.05 2.7339 3.2486

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.2628	0.1605 112	-1.64	0.1042	0.05	-0.5808	0.05507

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_28
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.7050

Fit Statistics	
-2 Res Log Likelihood	298.6
AIC (Smaller is Better)	300.6
AICC (Smaller is Better)	300.7
BIC (Smaller is Better)	303.3

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	112	119.88	<.0001
SEX	1	112	0.58	0.4475
UCPDGR1	1	112	0.02	0.8898
TRTP	1	112	2.25	0.1362

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	2.7216	0.09731 112	27.97	<.0001	0.05 2.5288 2.9144
TRTP	mCC	2.9675	0.1326 112	22.38	<.0001	0.05 2.7048 3.2303

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.2459	0.1638	112	-1.50	0.1362	0.05	-0.5705	0.07870



**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_29
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.6010

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	280.8
<b>AIC (Smaller is Better)</b>	282.8
<b>AICC (Smaller is Better)</b>	282.8
<b>BIC (Smaller is Better)</b>	285.5

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	112	122.58	<.0001
<b>SEX</b>	1	112	0.05	0.8244
<b>UCPDGR1</b>	1	112	0.10	0.7517
<b>TRTP</b>	1	112	1.87	0.1748

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	2.7172	0.08985 112	30.24	<.0001	0.05 2.5391 2.8952
<b>TRTP</b>	mCC	2.9237	0.1225 112	23.88	<.0001	0.05 2.6811 3.1664

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.2066	0.1513	112	-1.37	0.1748	0.05	-0.5063	0.09314

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_30
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.6132

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	283.0
<b>AIC (Smaller is Better)</b>	285.0
<b>AICC (Smaller is Better)</b>	285.1
<b>BIC (Smaller is Better)</b>	287.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	98.04 <.0001
<b>SEX</b>	1	112	0.01 0.9236
<b>UCPDGR1</b>	1	112	0.01 0.9131
<b>TRTP</b>	1	112	0.99 0.3212

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.0272	0.09076 112	33.35	<.0001	0.05 2.8474 3.2070
<b>TRTP</b>	mCC	3.1795	0.1237 112	25.70	<.0001	0.05 2.9344 3.4245

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.1522	0.1528	112	-1.00	0.3212	0.05	-0.4550	0.1505

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_31
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.8869

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	324.3
<b>AIC (Smaller is Better)</b>	326.3
<b>AICC (Smaller is Better)</b>	326.4
<b>BIC (Smaller is Better)</b>	329.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	112	63.83	<.0001
<b>SEX</b>	1	112	0.02	0.8922
<b>UCPDGR1</b>	1	112	0.00	0.9722
<b>TRTP</b>	1	112	0.00	0.9564

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.0740	0.1091 112	28.16	<.0001	0.05 2.8577 3.2903
<b>TRTP</b>	mCC	3.0639	0.1488 112	20.60	<.0001	0.05 2.7692 3.3586



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.01008	0.1838	112	0.05	0.9564	0.05	-0.3540	0.3742

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQPR, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_32
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.8379

Fit Statistics	
-2 Res Log Likelihood	315.3
AIC (Smaller is Better)	317.3
AICC (Smaller is Better)	317.3
BIC (Smaller is Better)	320.0

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	111	69.39 <.0001
SEX	1	111	0.20 0.6559
UCPDGR1	1	111	0.06 0.8138
TRTP	1	111	0.00 0.9578

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.0174	0.1067 111	28.29	<.0001	0.05 2.8061 3.2288
TRTP	mCC	3.0269	0.1446 111	20.93	<.0001	0.05 2.7403 3.3136

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.00950	0.1792	111	-0.05	0.9578	0.05	-0.3646	0.3456

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_33
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	118

**Number of Observations**

<b>Number of Observations Read</b>	118
<b>Number of Observations Used</b>	118



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<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.9977

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	340.4
<b>AIC (Smaller is Better)</b>	342.4
<b>AICC (Smaller is Better)</b>	342.4
<b>BIC (Smaller is Better)</b>	345.1

<b>Type 3 Tests of Fixed Effects</b>				
		<b>Num Den</b>		
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	113	43.26	<.0001
<b>SEX</b>	1	113	3.21	0.0758
<b>UCPDGR1</b>	1	113	0.01	0.9317
<b>TRTP</b>	1	113	18.62	<.0001

<b>Least Squares Means</b>						
		<b>Standard</b>				
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.1152	0.1152 113	27.04	<.0001	0.05 2.8869 3.3435
<b>TRTP</b>	mCC	3.9544	0.1577 113	25.07	<.0001	0.05 3.6418 4.2669

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.8392	0.1945	113	-4.32	<.0001	0.05	-1.2244	-0.4539

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_34
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.8616

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	321.1
<b>AIC (Smaller is Better)</b>	323.1
<b>AICC (Smaller is Better)</b>	323.1
<b>BIC (Smaller is Better)</b>	325.8

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	112	55.38	<.0001
<b>SEX</b>	1	112	0.19	0.6653
<b>UCPDGR1</b>	1	112	1.59	0.2097
<b>TRTP</b>	1	112	22.32	<.0001

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.2670	0.1076 112	30.36	<.0001	0.05 3.0537 3.4802
<b>TRTP</b>	mCC	4.1228	0.1466 112	28.13	<.0001	0.05 3.8324 4.4132

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.8558	0.1811	112	-4.72	<.0001	0.05	-1.2147	-0.4969

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_35
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.0785

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	346.2
<b>AIC (Smaller is Better)</b>	348.2
<b>AICC (Smaller is Better)</b>	348.3
<b>BIC (Smaller is Better)</b>	351.0

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	45.05 <.0001
<b>SEX</b>	1	112	0.00 0.9740
<b>UCPDGR1</b>	1	112	0.43 0.5147
<b>TRTP</b>	1	112	6.98 0.0094

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.3993	0.1204 112	28.23	<.0001	0.05 3.1607 3.6379
<b>TRTP</b>	mCC	3.9348	0.1640 112	23.99	<.0001	0.05 3.6099 4.2598

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5355	0.2027	112	-2.64	0.0094	0.05	-0.9371	-0.1339

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_36
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.2030

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	358.5
<b>AIC (Smaller is Better)</b>	360.5
<b>AICC (Smaller is Better)</b>	360.5
<b>BIC (Smaller is Better)</b>	363.2

<b>Type 3 Tests of Fixed Effects</b>				
		<b>Num Den</b>		
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	112	38.94	<.0001
<b>SEX</b>	1	112	0.21	0.6486
<b>UCPDGR1</b>	1	112	1.09	0.2979
<b>TRTP</b>	1	112	5.99	0.0159

<b>Least Squares Means</b>						
		<b>Standard</b>				
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	3.3936	0.1272 112	26.69	<.0001	0.05 3.1416 3.6456
<b>TRTP</b>	<b>mCC</b>	3.9177	0.1732 112	22.62	<.0001	0.05 3.5745 4.2609

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.5241	0.2141	112	-2.45	0.0159	0.05	-0.9482	-0.09995



**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_37
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1.1438

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	352.8
<b>AIC (Smaller is Better)</b>	354.8
<b>AICC (Smaller is Better)</b>	354.9
<b>BIC (Smaller is Better)</b>	357.5

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	112	35.72 <.0001
<b>SEX</b>	1	112	0.18 0.6680
<b>UCPDGR1</b>	1	112	0.27 0.6044
<b>TRTP</b>	1	112	3.39 0.0683

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	3.5093	0.1240 112	28.30	<.0001	0.05 3.2636 3.7550
<b>TRTP</b>	mCC	3.8934	0.1689 112	23.05	<.0001	0.05 3.5588 4.2281

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.3841	0.2087 112	-1.84	0.0683	0.05	-0.7977	0.02940

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_38
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.8112

Fit Statistics	
-2 Res Log Likelihood	314.3
AIC (Smaller is Better)	316.3
AICC (Smaller is Better)	316.4
BIC (Smaller is Better)	319.1

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	112	37.35 <.0001
SEX	1	112	0.09 0.7593
UCPDGR1	1	112	0.03 0.8684
TRTP	1	112	3.02 0.0851

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.8381	0.1044 112	36.75	<.0001	0.05 3.6312 4.0450
TRTP	mCC	4.1434	0.1422 112	29.13	<.0001	0.05 3.8616 4.4253

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.3053	0.1758 112	-1.74	0.0851	0.05	-0.6536	0.04294

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_39
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	117

**Number of Observations**

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.2406

Fit Statistics	
-2 Res Log Likelihood	361.9
AIC (Smaller is Better)	363.9
AICC (Smaller is Better)	364.0
BIC (Smaller is Better)	366.6

Type 3 Tests of Fixed Effects			
		Num Den	
Effect	DF	DF	F Value Pr > F
BASE	1	112	28.63 <.0001
SEX	1	112	0.04 0.8397
UCPDGR1	1	112	0.06 0.8036
TRTP	1	112	1.41 0.2384

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.7487	0.1291 112	29.03	<.0001	0.05 3.4929 4.0046
TRTP	mCC	4.0064	0.1759 112	22.78	<.0001	0.05 3.6579 4.3549



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-0.2577	0.2174	112	-1.19	0.2384	0.05	-0.6884	0.1730

**Listing 15.4.4.38.2 Analysis of MCEQ Subscales - FAS**

The where clause used on the dataset adam.Adqspa: FASFL=Y and ANL01FL=Y

Paramcd: MCEQSS, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_40
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	116

**Number of Observations**

<b>Number of Observations Read</b>	116
<b>Number of Observations Used</b>	116



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.9810

Fit Statistics	
-2 Res Log Likelihood	332.7
AIC (Smaller is Better)	334.7
AICC (Smaller is Better)	334.8
BIC (Smaller is Better)	337.5

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	111	37.69 <.0001
SEX	1	111	0.12 0.7341
UCPDGR1	1	111	1.05 0.3088
TRTP	1	111	0.00 0.9819

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.8903	0.1155 111	33.68	<.0001	0.05 3.6614 4.1192
TRTP	mCC	3.8859	0.1566 111	24.82	<.0001	0.05 3.5756 4.1962

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	0.004417	0.1941	111	0.02	0.9819	0.05	-0.3802	0.3890

**Listing 15.4.4.40.1 Analysis of MNWS Total Scores - PP Set**

The where clause used on the dataset adam.ADQSD: PPROT1FL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**

<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2258

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	224.2
<b>AIC (Smaller is Better)</b>	226.2
<b>AICC (Smaller is Better)</b>	226.2
<b>BIC (Smaller is Better)</b>	229.2

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>Num Den</b>		<b>F Value</b>	<b>Pr &gt; F</b>
	<b>DF</b>	<b>DF</b>		
<b>BASE</b>	1	149	131.74	<.0001
<b>SEX</b>	1	149	1.75	0.1885
<b>UCPDGR1</b>	1	149	0.36	0.5520
<b>TRTP</b>	2	149	33.99	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned</b>		<b>Standard</b>		<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
		<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>						
<b>TRTP</b>	<b>SA</b>	1.5180	0.07641	149	19.87	<.0001	0.05	1.3670	1.6690		
<b>TRTP</b>	<b>THSm2.2</b>	0.7992	0.05520	149	14.48	<.0001	0.05	0.6901	0.9083		
<b>TRTP</b>	<b>mCC</b>	0.7771	0.07488	149	10.38	<.0001	0.05	0.6292	0.9251		
<b>TRTP</b>	<b>SA</b>	1.5180	0.07641	149	19.87	<.0001	0.05	1.3670	1.6690		
<b>TRTP</b>	<b>THSm2.2</b>	0.7992	0.05520	149	14.48	<.0001	0.05	0.6901	0.9083		
<b>TRTP</b>	<b>mCC</b>	0.7771	0.07488	149	10.38	<.0001	0.05	0.6292	0.9251		



Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	0.7409	0.1069	149	6.93	<.0001	0.05	0.5297 0.9521
TRTP	THSm2.2	mCC	0.02207	0.09270	149	0.24	0.8122	0.05	-0.1611 0.2052
TRTP	THSm2.2	SA	-0.7188	0.09387	149	-7.66	<.0001	0.05	-0.9043 -0.5333
TRTP	mCC	SA	-0.7409	0.1069	149	-6.93	<.0001	0.05	-0.9521 -0.5297

**Listing 15.4.4.40.1 Analysis of MNWS Total Scores - PP Set**

The where clause used on the dataset adam.ADQSD: PPROT1FL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155





Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2135

Fit Statistics	
-2 Res Log Likelihood	215.8
AIC (Smaller is Better)	217.8
AICC (Smaller is Better)	217.8
BIC (Smaller is Better)	220.8

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF F Value	Pr > F
BASE	1 149	128.67	<.0001
SEX	1 149	4.33	0.0392
UCPDGR1	1 149	0.05	0.8300
TRTP	2 149	24.42	<.0001

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	1.3716	0.07430	149	18.46	<.0001	0.05 1.2248 1.5185
TRTP	THSm2.2	0.8049	0.05367	149	15.00	<.0001	0.05 0.6989 0.9110
TRTP	mCC	0.7260	0.07280	149	9.97	<.0001	0.05 0.5821 0.8699



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	1.3716	0.07430	149	18.46	<.0001	0.05	1.2248 1.5185
TRTP	THSm2.2	0.8049	0.05367	149	15.00	<.0001	0.05	0.6989 0.9110
TRTP	mCC	0.7260	0.07280	149	9.97	<.0001	0.05	0.5821 0.8699

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.6457	0.1039	149	6.21	<.0001	0.05 0.4403 0.8510
TRTP	THSm2.2	mCC	0.07894	0.09013	149	0.88	0.3825	0.05 -0.09915 0.2570
TRTP	THSm2.2	SA	-0.5667	0.09126	149	-6.21	<.0001	0.05 -0.7471 -0.3864
TRTP	mCC	SA	-0.6457	0.1039	149	-6.21	<.0001	0.05 -0.8510 -0.4403

**Listing 15.4.4.40.1 Analysis of MNWS Total Scores - PP Set**

The where clause used on the dataset adam.ADQSNB: PPROT1FL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates Cov Parm Estimate</b>	
<b>Residual</b>	0.2715

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	251.6
<b>AIC (Smaller is Better)</b>	253.6
<b>AICC (Smaller is Better)</b>	253.6
<b>BIC (Smaller is Better)</b>	256.6

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	149	73.98 <.0001
<b>SEX</b>	1	149	5.71 0.0181
<b>UCPDGR1</b>	1	149	0.73 0.3953
<b>TRTP</b>	2	149	24.41 <.0001

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	1.4683	0.08378	149	17.52	<.0001	0.05 1.3027 1.6338
<b>TRTP</b>	THSm2.2	0.7980	0.06052	149	13.19	<.0001	0.05 0.6784 0.9176
<b>TRTP</b>	mCC	0.7839	0.08210	149	9.55	<.0001	0.05 0.6217 0.9461



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	1.4683	0.08378	149	17.52	<.0001	0.05	1.3027 1.6338
TRTP	THSm2.2	0.7980	0.06052	149	13.19	<.0001	0.05	0.6784 0.9176
TRTP	mCC	0.7839	0.08210	149	9.55	<.0001	0.05	0.6217 0.9461

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.6843	0.1172	149	5.84	<.0001	0.05 0.4528 0.9159
TRTP	THSm2.2	mCC	0.01409	0.1016	149	0.14	0.8899	0.05 -0.1867 0.2149
TRTP	THSm2.2	SA	-0.6702	0.1029	149	-6.51	<.0001	0.05 -0.8736 -0.4669
TRTP	mCC	SA	-0.6843	0.1172	149	-5.84	<.0001	0.05 -0.9159 -0.4528

**Listing 15.4.4.40.1 Analysis of MNWS Total Scores - PP Set**

The where clause used on the dataset adam.ADQSNB: PPROT1FL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2748

Fit Statistics	
-2 Res Log Likelihood	253.4
AIC (Smaller is Better)	255.4
AICC (Smaller is Better)	255.4
BIC (Smaller is Better)	258.4

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	149	85.72	<.0001
SEX	1	149	4.49	0.0357
UCPDGR1	1	149	1.03	0.3119
TRTP	2	149	16.79	<.0001

		Least Squares Means				
		Planned	Standard			
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t  Alpha Lower Upper
TRTP	SA	1.3553	0.08429	149	16.08	<.0001 0.05 1.1888 1.5219
TRTP	THSm2.2	0.8324	0.06089	149	13.67	<.0001 0.05 0.7120 0.9527
TRTP	mCC	0.7369	0.08260	149	8.92	<.0001 0.05 0.5737 0.9001



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	1.3553	0.08429	149	16.08	<.0001	0.05	1.1888 1.5219
TRTP	THSm2.2	0.8324	0.06089	149	13.67	<.0001	0.05	0.7120 0.9527
TRTP	mCC	0.7369	0.08260	149	8.92	<.0001	0.05	0.5737 0.9001

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.6184	0.1179	149	5.25	<.0001	0.05 0.3855 0.8514
TRTP	THSm2.2	mCC	0.09545	0.1023	149	0.93	0.3521	0.05 -0.1066 0.2975
TRTP	THSm2.2	SA	-0.5230	0.1035	149	-5.05	<.0001	0.05 -0.7276 -0.3184
TRTP	mCC	SA	-0.6184	0.1179	149	-5.25	<.0001	0.05 -0.8514 -0.3855



**Listing 15.4.4.40.1 Analysis of MNWS Total Scores - PP Set**

The where clause used on the dataset adam.ADQSNB: PPROT1FL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_5
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2663

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	248.7
<b>AIC (Smaller is Better)</b>	250.7
<b>AICC (Smaller is Better)</b>	250.7
<b>BIC (Smaller is Better)</b>	253.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	149	117.07 <.0001
<b>SEX</b>	1	149	2.26 0.1349
<b>UCPDGR1</b>	1	149	0.01 0.9259
<b>TRTP</b>	2	149	6.77 0.0015

		<b>Least Squares Means</b>					
		<b>Planned</b>	<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	SA	1.2016	0.08298	149	14.48 <.0001	0.05	1.0377 1.3656
<b>TRTP</b>	THSm2.2	0.9010	0.05994	149	15.03 <.0001	0.05	0.7826 1.0195
<b>TRTP</b>	mCC	0.7950	0.08131	149	9.78 <.0001	0.05	0.6343 0.9556



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	1.2016	0.08298	149	14.48	<.0001	0.05	1.0377 1.3656
TRTP	THSm2.2	0.9010	0.05994	149	15.03	<.0001	0.05	0.7826 1.0195
TRTP	mCC	0.7950	0.08131	149	9.78	<.0001	0.05	0.6343 0.9556

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.4067	0.1161	149	3.50	0.0006	0.05 0.1773 0.6360
TRTP	THSm2.2	mCC	0.1061	0.1007	149	1.05	0.2937	0.05 -0.09282 0.3050
TRTP	THSm2.2	SA	-0.3006	0.1019	149	-2.95	0.0037	0.05 -0.5020 -0.09917
TRTP	mCC	SA	-0.4067	0.1161	149	-3.50	0.0006	0.05 -0.6360 -0.1773

**Listing 15.4.4.40.1 Analysis of MNWS Total Scores - PP Set**

The where clause used on the dataset adam.ADQSNB: PPROT2FL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_6
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	153

**Number of Observations**

<b>Number of Observations Read</b>	153
<b>Number of Observations Used</b>	153



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2778

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	251.9
<b>AIC (Smaller is Better)</b>	253.9
<b>AICC (Smaller is Better)</b>	253.9
<b>BIC (Smaller is Better)</b>	256.9

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	147	51.42 <.0001
<b>SEX</b>	1	147	0.07 0.7937
<b>UCPDGR1</b>	1	147	0.00 0.9441
<b>TRTP</b>	2	147	1.71 0.1841

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	SA	0.8723	0.08581	147	10.16 <.0001	0.05	0.7027 1.0418
<b>TRTP</b>	THSm2.2	0.6958	0.06161	147	11.29 <.0001	0.05	0.5741 0.8176
<b>TRTP</b>	mCC	0.6796	0.08303	147	8.18 <.0001	0.05	0.5155 0.8436



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	0.8723	0.08581	147	10.16	<.0001	0.05	0.7027 1.0418
TRTP	THSm2.2	0.6958	0.06161	147	11.29	<.0001	0.05	0.5741 0.8176
TRTP	mCC	0.6796	0.08303	147	8.18	<.0001	0.05	0.5155 0.8436

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.1927	0.1193	147	1.62	0.1083	0.05 -0.04299 0.4284
TRTP	THSm2.2	mCC	0.01626	0.1030	147	0.16	0.8748	0.05 -0.1874 0.2199
TRTP	THSm2.2	SA	-0.1764	0.1052	147	-1.68	0.0958	0.05 -0.3844 0.03155
TRTP	mCC	SA	-0.1927	0.1193	147	-1.62	0.1083	0.05 -0.4284 0.04299

**Listing 15.4.4.40.1 Analysis of MNWS Total Scores - PP Set**

The where clause used on the dataset adam.ADQSNB: PPROT3FL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_7
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	150

**Number of Observations**

<b>Number of Observations Read</b>	150
<b>Number of Observations Used</b>	150



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2711

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	243.5
<b>AIC (Smaller is Better)</b>	245.5
<b>AICC (Smaller is Better)</b>	245.5
<b>BIC (Smaller is Better)</b>	248.5

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	144	41.31 <.0001
<b>SEX</b>	1	144	1.49 0.2239
<b>UCPDGR1</b>	1	144	0.07 0.7891
<b>TRTP</b>	2	144	0.62 0.5419

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	SA	0.7189	0.08481	144	8.48 <.0001	0.05	0.5513 0.8866
<b>TRTP</b>	THSm2.2	0.6915	0.06217	144	11.12 <.0001	0.05	0.5686 0.8143
<b>TRTP</b>	mCC	0.5977	0.08198	144	7.29 <.0001	0.05	0.4356 0.7597





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	0.7189	0.08481	144	8.48	<.0001	0.05	0.5513 0.8866
TRTP	THSm2.2	0.6915	0.06217	144	11.12	<.0001	0.05	0.5686 0.8143
TRTP	mCC	0.5977	0.08198	144	7.29	<.0001	0.05	0.4356 0.7597

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.1212	0.1178	144	1.03	0.3051	0.05 -0.1116 0.3541
TRTP	THSm2.2	mCC	0.09377	0.1024	144	0.92	0.3615	0.05 -0.1087 0.2962
TRTP	THSm2.2	SA	-0.02747	0.1048	144	-0.26	0.7935	0.05 -0.2346 0.1796
TRTP	mCC	SA	-0.1212	0.1178	144	-1.03	0.3051	0.05 -0.3541 0.1116

**Listing 15.4.4.40.1 Analysis of MNWS Total Scores - PP Set**

The where clause used on the dataset adam.ADQSNB: PPROT4FL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_8
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

<b>Number of Observations Read</b>	147
<b>Number of Observations Used</b>	147



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2383

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	220.7
<b>AIC (Smaller is Better)</b>	222.7
<b>AICC (Smaller is Better)</b>	222.7
<b>BIC (Smaller is Better)</b>	225.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	141	54.69 <.0001
<b>SEX</b>	1	141	0.43 0.5145
<b>UCPDGR1</b>	1	141	0.00 0.9829
<b>TRTP</b>	2	141	5.34 0.0058

		<b>Least Squares Means</b>					
<b>Planned</b>		<b>Standard</b>					
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	SA	0.4372	0.08073	141	5.41 <.0001	0.05	0.2776 0.5968
<b>TRTP</b>	THSm2.2	0.7627	0.05895	141	12.94 <.0001	0.05	0.6461 0.8792
<b>TRTP</b>	mCC	0.6539	0.07693	141	8.50 <.0001	0.05	0.5018 0.8060



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	0.4372	0.08073	141	5.41	<.0001	0.05 0.2776 0.5968
TRTP	THSm2.2	0.7627	0.05895	141	12.94	<.0001	0.05 0.6461 0.8792
TRTP	mCC	0.6539	0.07693	141	8.50	<.0001	0.05 0.5018 0.8060

Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.2167	0.1113	141	-1.95	0.0534	0.05	-0.4367	0.003259
TRTP	THSm2.2	mCC	0.1088	0.09668	141	1.12	0.2625	0.05	-0.08237	0.2999
TRTP	THSm2.2	SA	0.3255	0.09960	141	3.27	0.0014	0.05	0.1286	0.5224
TRTP	mCC	SA	0.2167	0.1113	141	1.95	0.0534	0.05	-0.00326	0.4367

**Listing 15.4.4.40.2 Analysis of MNWS Total Scores - FAS**

The where clause used on the dataset adam.ADQSD: FASFL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	3SA THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	157

**Number of Observations**

<b>Number of Observations Read</b>	157
<b>Number of Observations Used</b>	157
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.2239

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	225.6
<b>AIC (Smaller is Better)</b>	227.6
<b>AICC (Smaller is Better)</b>	227.6
<b>BIC (Smaller is Better)</b>	230.6

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>Num Den</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	151		133.78	<.0001
<b>SEX</b>	1	151		1.59	0.2094
<b>UCPDGR1</b>	1	151		0.43	0.5109
<b>TRTP</b>	2	151		34.03	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	1.5053	0.07509	151	20.05	<.0001	0.05	1.3570	1.6537
<b>TRTP</b>	THSm2.2	0.7965	0.05463	151	14.58	<.0001	0.05	0.6886	0.9044
<b>TRTP</b>	mCC	0.7747	0.07454	151	10.39	<.0001	0.05	0.6275	0.9220
<b>TRTP</b>	SA	1.5053	0.07509	151	20.05	<.0001	0.05	1.3570	1.6537
<b>TRTP</b>	THSm2.2	0.7965	0.05463	151	14.58	<.0001	0.05	0.6886	0.9044
<b>TRTP</b>	mCC	0.7747	0.07454	151	10.39	<.0001	0.05	0.6275	0.9220



Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	0.7306	0.1057	151	6.91 <.0001	0.05	0.5218	0.9395
TRTP	THSm2.2	mCC	0.02177	0.09207	151	0.24 0.8134	0.05	-0.1601	0.2037
TRTP	THSm2.2	SA	-0.7088	0.09252	151	-7.66 <.0001	0.05	-0.8917	-0.5260
TRTP	mCC	SA	-0.7306	0.1057	151	-6.91 <.0001	0.05	-0.9395	-0.5218

**Listing 15.4.4.40.2 Analysis of MNWS Total Scores - FAS**

The where clause used on the dataset adam.ADQSND: FASFL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 2 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	157

**Number of Observations**

<b>Number of Observations Read</b>	157
<b>Number of Observations Used</b>	157





Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2138

Fit Statistics	
-2 Res Log Likelihood	218.7
AIC (Smaller is Better)	220.7
AICC (Smaller is Better)	220.7
BIC (Smaller is Better)	223.7

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	151	128.76	<.0001
SEX	1	151	3.74	0.0551
UCPDGR1	1	151	0.01	0.9428
TRTP	2	151	23.41	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	1.3528	0.07339	151	18.43	<.0001	0.05	1.2078	1.4977	
TRTP	THSm2.2	0.8054	0.05340	151	15.08	<.0001	0.05	0.6999	0.9109	
TRTP	mCC	0.7234	0.07285	151	9.93	<.0001	0.05	0.5794	0.8673	



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	1.3528	0.07339	151	18.43	<.0001	0.05	1.2078 1.4977
TRTP	THSm2.2	0.8054	0.05340	151	15.08	<.0001	0.05	0.6999 0.9109
TRTP	mCC	0.7234	0.07285	151	9.93	<.0001	0.05	0.5794 0.8673

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.6294	0.1033	151	6.09	<.0001	0.05 0.4252 0.8335
TRTP	THSm2.2	mCC	0.08198	0.08998	151	0.91	0.3637	0.05 -0.09581 0.2598
TRTP	THSm2.2	SA	-0.5474	0.09043	151	-6.05	<.0001	0.05 -0.7260 -0.3687
TRTP	mCC	SA	-0.6294	0.1033	151	-6.09	<.0001	0.05 -0.8335 -0.4252

**Listing 15.4.4.40.2 Analysis of MNWS Total Scores - FAS**

The where clause used on the dataset adam.ADQSD: FASFL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 3 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2697

Fit Statistics	
-2 Res Log Likelihood	252.1
AIC (Smaller is Better)	254.1
AICC (Smaller is Better)	254.2
BIC (Smaller is Better)	257.2

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	150	74.74	<.0001
SEX	1	150	5.77	0.0175
UCPDGR1	1	150	0.74	0.3915
TRTP	2	150	24.61	<.0001

		Least Squares Means					
		Planned	Standard				
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	1.4671	0.08351	150	17.57	<.0001	0.05 1.3021 1.6321
TRTP	THSm2.2	0.7969	0.05996	150	13.29	<.0001	0.05 0.6784 0.9154
TRTP	mCC	0.7828	0.08181	150	9.57	<.0001	0.05 0.6211 0.9444



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	1.4671	0.08351	150	17.57	<.0001	0.05	1.3021 1.6321
TRTP	THSm2.2	0.7969	0.05996	150	13.29	<.0001	0.05	0.6784 0.9154
TRTP	mCC	0.7828	0.08181	150	9.57	<.0001	0.05	0.6211 0.9444

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.6843	0.1168	150	5.86	<.0001	0.05 0.4536 0.9151
TRTP	THSm2.2	mCC	0.01414	0.1010	150	0.14	0.8889	0.05 -0.1855 0.2138
TRTP	THSm2.2	SA	-0.6702	0.1024	150	-6.55	<.0001	0.05 -0.8725 -0.4679
TRTP	mCC	SA	-0.6843	0.1168	150	-5.86	<.0001	0.05 -0.9151 -0.4536

**Listing 15.4.4.40.2 Analysis of MNWS Total Scores - FAS**

The where clause used on the dataset adam.ADQSD: FASFL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2730

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	254.0
<b>AIC (Smaller is Better)</b>	256.0
<b>AICC (Smaller is Better)</b>	256.0
<b>BIC (Smaller is Better)</b>	259.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	150	86.44	<.0001
<b>SEX</b>	1	150	4.50	0.0355
<b>UCPDGR1</b>	1	150	1.07	0.3022
<b>TRTP</b>	2	150	16.90	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	1.3541	0.08403	150	16.12	<.0001	0.05	1.1881	1.5201	
TRTP	THSm2.2	0.8321	0.06033	150	13.79	<.0001	0.05	0.7129	0.9513	
TRTP	mCC	0.7356	0.08232	150	8.94	<.0001	0.05	0.5729	0.8982	



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	1.3541	0.08403	150	16.12	<.0001	0.05	1.1881 1.5201
TRTP	THSm2.2	0.8321	0.06033	150	13.79	<.0001	0.05	0.7129 0.9513
TRTP	mCC	0.7356	0.08232	150	8.94	<.0001	0.05	0.5729 0.8982

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.6185	0.1175	150	5.26	<.0001	0.05 0.3863 0.8507
TRTP	THSm2.2	mCC	0.09647	0.1017	150	0.95	0.3442	0.05 -0.1044 0.2974
TRTP	THSm2.2	SA	-0.5220	0.1030	150	-5.07	<.0001	0.05 -0.7255 -0.3185
TRTP	mCC	SA	-0.6185	0.1175	150	-5.26	<.0001	0.05 -0.8507 -0.3863



**Listing 15.4.4.40.2 Analysis of MNWS Total Scores - FAS**

The where clause used on the dataset adam.ADQSND: FASFL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 5 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_5
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	156

**Number of Observations**

<b>Number of Observations Read</b>	156
<b>Number of Observations Used</b>	156



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates Cov Parm Estimate</b>	
<b>Residual</b>	0.2645

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	249.3
<b>AIC (Smaller is Better)</b>	251.3
<b>AICC (Smaller is Better)</b>	251.3
<b>BIC (Smaller is Better)</b>	254.3

<b>Type 3 Tests of Fixed Effects</b>				
		<b>Num Den</b>		
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	150	118.17	<.0001
<b>SEX</b>	1	150	2.26	0.1344
<b>UCPDGR1</b>	1	150	0.01	0.9184
<b>TRTP</b>	2	150	6.81	0.0015

		<b>Least Squares Means</b>					
		<b>Planned</b>	<b>Standard</b>				
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	SA	1.2002	0.08271	150	14.51	<.0001	0.05 1.0368 1.3636
<b>TRTP</b>	THSm2.2	0.9002	0.05939	150	15.16	<.0001	0.05 0.7829 1.0176
<b>TRTP</b>	mCC	0.7935	0.08103	150	9.79	<.0001	0.05 0.6334 0.9536



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	1.2002	0.08271	150	14.51	<.0001	0.05	1.0368 1.3636
TRTP	THSm2.2	0.9002	0.05939	150	15.16	<.0001	0.05	0.7829 1.0176
TRTP	mCC	0.7935	0.08103	150	9.79	<.0001	0.05	0.6334 0.9536

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.4067	0.1157	150	3.52	0.0006	0.05 0.1782 0.6353
TRTP	THSm2.2	mCC	0.1068	0.1001	150	1.07	0.2878	0.05 -0.09100 0.3045
TRTP	THSm2.2	SA	-0.3000	0.1014	150	-2.96	0.0036	0.05 -0.5003 -0.09963
TRTP	mCC	SA	-0.4067	0.1157	150	-3.52	0.0006	0.05 -0.6353 -0.1782

**Listing 15.4.4.40.2 Analysis of MNWS Total Scores - FAS**

The where clause used on the dataset adam.ADQSD: FASFL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_6
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2764

Fit Statistics	
-2 Res Log Likelihood	254.2
AIC (Smaller is Better)	256.2
AICC (Smaller is Better)	256.3
BIC (Smaller is Better)	259.3

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	149	51.99 <.0001
SEX	1	149	0.13 0.7198
UCPDGR1	1	149	0.03 0.8570
TRTP	2	149	1.63 0.1999

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	0.8723	0.08558	149	10.19	<.0001	0.05 0.7032 1.0414
TRTP	THSm2.2	0.7055	0.06071	149	11.62	<.0001	0.05 0.5855 0.8255
TRTP	mCC	0.6797	0.08281	149	8.21	<.0001	0.05 0.5161 0.8433



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	0.8723	0.08558	149	10.19	<.0001	0.05	0.7032 1.0414
TRTP	THSm2.2	0.7055	0.06071	149	11.62	<.0001	0.05	0.5855 0.8255
TRTP	mCC	0.6797	0.08281	149	8.21	<.0001	0.05	0.5161 0.8433

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.1926	0.1189	149	1.62	0.1075	0.05 -0.04246 0.4276
TRTP	THSm2.2	mCC	0.02580	0.1023	149	0.25	0.8013	0.05 -0.1764 0.2279
TRTP	THSm2.2	SA	-0.1668	0.1045	149	-1.60	0.1127	0.05 -0.3734 0.03978
TRTP	mCC	SA	-0.1926	0.1189	149	-1.62	0.1075	0.05 -0.4276 0.04246

**Listing 15.4.4.40.2 Analysis of MNWS Total Scores - FAS**

The where clause used on the dataset adam.ADQSND: FASFL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_7
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	155

**Number of Observations**

<b>Number of Observations Read</b>	155
<b>Number of Observations Used</b>	155



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2735

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	252.7
<b>AIC (Smaller is Better)</b>	254.7
<b>AICC (Smaller is Better)</b>	254.7
<b>BIC (Smaller is Better)</b>	257.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	149	44.48	<.0001
<b>SEX</b>	1	149	2.39	0.1245
<b>UCPDGR1</b>	1	149	0.06	0.8111
<b>TRTP</b>	2	149	0.65	0.5217

		Least Squares Means								
Planned	Standard									
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	0.7244	0.08513	149	8.51	<.0001	0.05	0.5562	0.8927	
TRTP	THSm2.2	0.7091	0.06040	149	11.74	<.0001	0.05	0.5897	0.8284	
TRTP	mCC	0.6056	0.08237	149	7.35	<.0001	0.05	0.4429	0.7684	





		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	0.7244	0.08513	149	8.51	<.0001	0.05	0.5562 0.8927
TRTP	THSm2.2	0.7091	0.06040	149	11.74	<.0001	0.05	0.5897 0.8284
TRTP	mCC	0.6056	0.08237	149	7.35	<.0001	0.05	0.4429 0.7684

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.1188	0.1183	149	1.00	0.3170	0.05 -0.1150 0.3526
TRTP	THSm2.2	mCC	0.1035	0.1018	149	1.02	0.3110	0.05 -0.09764 0.3045
TRTP	THSm2.2	SA	-0.01535	0.1040	149	-0.15	0.8828	0.05 -0.2208 0.1901
TRTP	mCC	SA	-0.1188	0.1183	149	-1.00	0.3170	0.05 -0.3526 0.1150

**Listing 15.4.4.40.2 Analysis of MNWS Total Scores - FAS**

The where clause used on the dataset adam.ADQSD: FASFL=Y and ANL01FL=Y

Paramcd: MNWSRWDS, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_8
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	154

**Number of Observations**

<b>Number of Observations Read</b>	154
<b>Number of Observations Used</b>	154



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.2377

Fit Statistics	
-2 Res Log Likelihood	230.4
AIC (Smaller is Better)	232.4
AICC (Smaller is Better)	232.4
BIC (Smaller is Better)	235.4

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	148	55.01 <.0001
SEX	1	148	0.24 0.6236
UCPDGR1	1	148	0.07 0.7928
TRTP	2	148	5.59 0.0046

		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value Pr >  t	Alpha	Lower Upper
TRTP	SA	0.4427	0.07936	148	5.58 <.0001	0.05	0.2858 0.5995
TRTP	THSm2.2	0.7675	0.05664	148	13.55 <.0001	0.05	0.6555 0.8794
TRTP	mCC	0.6559	0.07683	148	8.54 <.0001	0.05	0.5040 0.8077



		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	0.4427	0.07936	148	5.58	<.0001	0.05 0.2858 0.5995
TRTP	THSm2.2	0.7675	0.05664	148	13.55	<.0001	0.05 0.6555 0.8794
TRTP	mCC	0.6559	0.07683	148	8.54	<.0001	0.05 0.5040 0.8077

Differences of Least Squares Means										
Planned		Planned	Standard							
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	mCC	-0.2132	0.1103	148	-1.93	0.0552	0.05	-0.4312	0.004829
TRTP	THSm2.2	mCC	0.1116	0.09517	148	1.17	0.2428	0.05	-0.07645	0.2997
TRTP	THSm2.2	SA	0.3248	0.09716	148	3.34	0.0011	0.05	0.1328	0.5168
TRTP	mCC	SA	0.2132	0.1103	148	1.93	0.0552	0.05	-0.00483	0.4312

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ANPC, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	2THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 24.9453

**Fit Statistics**

-2 Res Log Likelihood	462.8
AIC (Smaller is Better)	464.8
AICC (Smaller is Better)	464.8
BIC (Smaller is Better)	467.1

**Type 3 Tests of Fixed Effects**

Effect	Num DF	Den DF	F Value	Pr > F
BASE	1	73	46.82	<.0001
SEX	1	73	8.26	0.0053
UCPDGR1	1	73	0.00	0.9812
TRTP	1	73	0.53	0.4675

**Least Squares Means**

Effect	Planned Treatment	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	19.0465	0.7497	73	25.41	<.0001	0.05	17.5524	20.5406
TRTP	mCC	18.1728	0.9832	73	18.48	<.0001	0.05	16.2132	20.1324

**Differences of Least Squares Means**

Effect	Planned Treatment	Planned Treatment	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
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**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.8737	1.1963 73	0.73	0.4675	0.05	-1.5106	3.2579

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ANPC, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	18.2208

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	416.5
<b>AIC (Smaller is Better)</b>	418.5
<b>AICC (Smaller is Better)</b>	418.6
<b>BIC (Smaller is Better)</b>	420.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	69	29.20	<.0001
<b>SEX</b>	1	69	3.46	0.0672
<b>UCPDGR1</b>	1	69	0.86	0.3573
<b>TRTP</b>	1	69	0.16	0.6869

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	17.6051	0.6459 69	27.26	<.0001	0.05	16.3166 18.8936
<b>TRTP</b>	mCC	17.1726	0.8908 69	19.28	<.0001	0.05	15.3955 18.9496

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.4325	1.0687 69	0.40	0.6869	0.05	-1.6995	2.5646

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: ANPC, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_3
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	10.6677

Fit Statistics	
-2 Res Log Likelihood	395.5
AIC (Smaller is Better)	397.5
AICC (Smaller is Better)	397.6
BIC (Smaller is Better)	399.8

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	72	40.68	<.0001
SEX	1	72	13.25	0.0005
UCPDGR1	1	72	0.12	0.7280
TRTP	1	72	1.54	0.2193

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	16.5468	0.4812 72	34.39	<.0001	0.05	15.5877 17.5060
TRTP	mCC	15.5516	0.6611 72	23.52	<.0001	0.05	14.2338 16.8694

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.9952	0.8031	72	1.24	0.2193	0.05	-0.6057	2.5962	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: ANPC, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_4
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	24.6673

Fit Statistics	
-2 Res Log Likelihood	419.1
AIC (Smaller is Better)	421.1
AICC (Smaller is Better)	421.2
BIC (Smaller is Better)	423.3

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	66	28.33	<.0001
SEX	1	66	2.56	0.1147
UCPDGR1	1	66	0.28	0.5972
TRTP	1	66	7.40	0.0083

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	18.4597	0.7675 66	24.05	<.0001	0.05	16.9274 19.9920
TRTP	mCC	14.9739	1.0580 66	14.15	<.0001	0.05	12.8615 17.0863

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	3.4859	1.2813 66	2.72	0.0083	0.05	0.9277	6.0441



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: ANPC, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_5
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	27.3837

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	407.3
<b>AIC (Smaller is Better)</b>	409.3
<b>AICC (Smaller is Better)</b>	409.3
<b>BIC (Smaller is Better)</b>	411.4

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	33.46	<.0001
<b>SEX</b>	1	63	0.00	0.9793
<b>UCPDGR1</b>	1	63	0.01	0.9053
<b>TRTP</b>	1	63	5.61	0.0209

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	18.5657	0.8416 63	22.06	<.0001	0.05	16.8839 20.2475
<b>TRTP</b>	mCC	15.3719	1.0970 63	14.01	<.0001	0.05	13.1797 17.5640

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t</b>	<b>Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	3.1938	1.3485	63	2.37	0.0209	0.05	0.4991	5.8885	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATVOL, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_6
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	61361

Fit Statistics	
-2 Res Log Likelihood	1041.2
AIC (Smaller is Better)	1043.2
AICC (Smaller is Better)	1043.3
BIC (Smaller is Better)	1045.5

Type 3 Tests of Fixed Effects				
		Num	Den	
Effect	DF	DF	F Value	Pr > F
BASE	1	73	28.08	<.0001
SEX	1	73	0.27	0.6038
UCPDGR1	1	73	0.27	0.6034
TRTP	1	73	3.83	0.0541

		Least Squares Means						
		Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	723.39	36.8967	73	19.61	<.0001	0.05	649.86 796.93
TRTP	mCC	839.26	49.0249	73	17.12	<.0001	0.05	741.56 936.97

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-115.87	59.1852	73	-1.96	0.0541	0.05	-233.82 2.0883

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATVOL, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_7
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	73379

Fit Statistics	
-2 Res Log Likelihood	997.7
AIC (Smaller is Better)	999.7
AICC (Smaller is Better)	999.7
BIC (Smaller is Better)	1001.9

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	69	18.45	<.0001
SEX	1	69	0.21	0.6470
UCPDGR1	1	69	0.86	0.3578
TRTP	1	69	0.28	0.5975

		Least Squares Means				
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	758.25	40.6990	69	18.63	<.0001 0.05 677.06 839.44
TRTP	mCC	794.07	56.7430	69	13.99	<.0001 0.05 680.87 907.27



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-35.8195	67.5262	69	-0.53	0.5975	0.05	-170.53 98.8917

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: ATVOL, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_8
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	58949

Fit Statistics	
-2 Res Log Likelihood	1024.3
AIC (Smaller is Better)	1026.3
AICC (Smaller is Better)	1026.3
BIC (Smaller is Better)	1028.5

Type 3 Tests of Fixed Effects				
		Num	Den	
Effect	DF	DF	F Value	Pr > F
BASE	1	72	22.69	<.0001
SEX	1	72	0.02	0.8808
UCPDGR1	1	72	0.87	0.3553
TRTP	1	72	2.79	0.0991

Least Squares Means						
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	648.78	35.2913	72	18.38	<.0001 0.05 578.43 719.13
TRTP	mCC	747.60	49.2234	72	15.19	<.0001 0.05 649.47 845.72

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-98.8172	59.1428 72	-1.67	0.0991	0.05	-216.72	19.0818

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: ATVOL, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_9
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	75505

Fit Statistics	
-2 Res Log Likelihood	957.4
AIC (Smaller is Better)	959.4
AICC (Smaller is Better)	959.4
BIC (Smaller is Better)	961.5

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	66	22.07	<.0001
SEX	1	66	0.02	0.8810
UCPDGR1	1	66	0.03	0.8683
TRTP	1	66	1.52	0.2225

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	757.33	41.6951	66	18.16	<.0001	0.05 674.09 840.58
TRTP	mCC	670.68	58.9446	66	11.38	<.0001	0.05 553.00 788.37

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	86.6515	70.3577	66	1.23	0.2225	0.05	-53.8221 227.13

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: ATVOL, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_10
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68





Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	52925

Fit Statistics	
-2 Res Log Likelihood	892.6
AIC (Smaller is Better)	894.6
AICC (Smaller is Better)	894.6
BIC (Smaller is Better)	896.7

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	63	43.41	<.0001
SEX	1	63	0.25	0.6176
UCPDGR1	1	63	0.33	0.5692
TRTP	1	63	0.16	0.6926

Least Squares Means									
Standard									
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower	Upper	
TRTP	THSm2.2	729.85	36.3573	63	20.07	<.0001	0.05	657.20	802.50
TRTP	mCC	753.32	48.5469	63	15.52	<.0001	0.05	656.30	850.33

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-23.4680	59.0841	63	-0.40	0.6926	0.05	-141.54 94.6021

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGVI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_11
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	135.31

Fit Statistics	
-2 Res Log Likelihood	588.7
AIC (Smaller is Better)	590.7
AICC (Smaller is Better)	590.8
BIC (Smaller is Better)	593.0

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	73	84.26	<.0001
SEX	1	73	1.48	0.2279
UCPDGR1	1	73	0.27	0.6075
TRTP	1	73	9.02	0.0037

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	41.2686	1.7428 73	23.68	<.0001	0.05	37.7952 44.7420
TRTP	mCC	49.5848	2.3008 73	21.55	<.0001	0.05	44.9993 54.1703

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-8.3161	2.7696 73	-3.00	0.0037	0.05	-13.8359	-2.7964

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGVI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_12
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	167.08

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	571.9
<b>AIC (Smaller is Better)</b>	573.9
<b>AICC (Smaller is Better)</b>	574.0
<b>BIC (Smaller is Better)</b>	576.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	69	72.75	<.0001
<b>SEX</b>	1	69	2.15	0.1472
<b>UCPDGR1</b>	1	69	1.10	0.2988
<b>TRTP</b>	1	69	0.91	0.3440

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	45.4197	1.9522 69	23.27	<.0001	0.05	41.5252 49.3143
<b>TRTP</b>	mCC	48.4743	2.6986 69	17.96	<.0001	0.05	43.0907 53.8579

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	-3.0545	3.2058	69	-0.95	0.3440	0.05	-9.4499	3.3408	



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: AAVGVI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_13
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	144.17

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	585.4
<b>AIC (Smaller is Better)</b>	587.4
<b>AICC (Smaller is Better)</b>	587.5
<b>BIC (Smaller is Better)</b>	589.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	81.20	<.0001
<b>SEX</b>	1	72	1.73	0.1932
<b>UCPDGR1</b>	1	72	0.00	0.9960
<b>TRTP</b>	1	72	6.25	0.0147

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	42.8399	1.7557 72	24.40	<.0001	0.05	39.3400 46.3398
<b>TRTP</b>	mCC	50.1200	2.4269 72	20.65	<.0001	0.05	45.2821 54.9580

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-7.2801	2.9116 72	-2.50	0.0147	0.05	-13.0844	-1.4759

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: AAVGVI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_14
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	141.08

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	536.9
<b>AIC (Smaller is Better)</b>	538.9
<b>AICC (Smaller is Better)</b>	538.9
<b>BIC (Smaller is Better)</b>	541.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	66	87.35	<.0001
<b>SEX</b>	1	66	0.46	0.4989
<b>UCPDGR1</b>	1	66	0.11	0.7464
<b>TRTP</b>	1	66	2.59	0.1126

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	43.3705	1.8071 66	24.00	<.0001	0.05	39.7625 46.9786
<b>TRTP</b>	mCC	48.1997	2.5308 66	19.05	<.0001	0.05	43.1468 53.2526

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-4.8292	3.0034 66	-1.61	0.1126	0.05	-10.8257	1.1674

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: AAVGVI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_15
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



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<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	<b>0</b>

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	<b>147.40</b>

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	<b>516.0</b>
<b>AIC (Smaller is Better)</b>	<b>518.0</b>
<b>AICC (Smaller is Better)</b>	<b>518.1</b>
<b>BIC (Smaller is Better)</b>	<b>520.2</b>

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	59.06	<.0001
<b>SEX</b>	1	63	0.41	0.5246
<b>UCPDGR1</b>	1	63	0.39	0.5351
<b>TRTP</b>	1	63	9.77	0.0027

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	41.4933	1.9179 63	21.63	<.0001	0.05 37.6607 45.3258
<b>TRTP</b>	mCC	51.1672	2.5640 63	19.96	<.0001	0.05 46.0435 56.2909



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-9.6740	3.0956 63	-3.13	0.0027	0.05	-15.8601	-3.4878

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGDI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_16
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.1461

Fit Statistics	
-2 Res Log Likelihood	83.0
AIC (Smaller is Better)	85.0
AICC (Smaller is Better)	85.1
BIC (Smaller is Better)	87.3

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	73	150.11	<.0001
SEX	1	73	1.14	0.2895
UCPDGR1	1	73	3.10	0.0824
TRTP	1	73	4.57	0.0359

		Least Squares Means						
				Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	1.8880	0.05717	73	33.03	<.0001	0.05	1.7741 2.0019
TRTP	mCC	1.6935	0.07538	73	22.46	<.0001	0.05	1.5432 1.8437

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t</b>	<b>Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.1945	0.09099	73	2.14	0.0359	0.05	0.01318	0.3759	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGDI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_17
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.1108

Fit Statistics	
-2 Res Log Likelihood	59.9
AIC (Smaller is Better)	61.9
AICC (Smaller is Better)	61.9
BIC (Smaller is Better)	64.1

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	69	202.35	<.0001
SEX	1	69	2.79	0.0991
UCPDGR1	1	69	5.68	0.0199
TRTP	1	69	13.17	0.0005

Least Squares Means		Standard						
Effect	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	1.9401	0.05034	69	38.54	<.0001	0.05	1.8397 2.0405
TRTP	mCC	1.6402	0.06929	69	23.67	<.0001	0.05	1.5019 1.7784

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.2999	0.08264	69	3.63	0.0005	0.05	0.1351	0.4648	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: AAVGDI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_18
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2175

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	110.6
<b>AIC (Smaller is Better)</b>	112.6
<b>AICC (Smaller is Better)</b>	112.7
<b>BIC (Smaller is Better)</b>	114.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	99.08	<.0001
<b>SEX</b>	1	72	3.67	0.0593
<b>UCPDGR1</b>	1	72	1.57	0.2143
<b>TRTP</b>	1	72	3.36	0.0707

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	1.8215	0.06830	72	26.67	<.0001	0.05 1.6854 1.9577
<b>TRTP</b>	mCC	1.6138	0.09410	72	17.15	<.0001	0.05 1.4262 1.8013

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.2078	0.1133 72	1.83	0.0707	0.05	-0.01803	0.4335

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: AAVGDI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_19
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.1792

Fit Statistics	
-2 Res Log Likelihood	89.6
AIC (Smaller is Better)	91.6
AICC (Smaller is Better)	91.7
BIC (Smaller is Better)	93.8

Type 3 Tests of Fixed Effects				
Effect	Num Den		F Value	Pr > F
	DF	DF		
BASE	1	66	102.32	<.0001
SEX	1	66	3.78	0.0563
UCPDGR1	1	66	1.51	0.2239
TRTP	1	66	10.01	0.0024

Least Squares Means									
		Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower	Upper	
TRTP	THSm2.2	1.8802	0.06438	66	29.20	<.0001	0.05	1.7516	2.0087
TRTP	mCC	1.5417	0.08982	66	17.16	<.0001	0.05	1.3623	1.7210

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.3385	0.1070 66	3.16	0.0024	0.05	0.1249	0.5521

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: AAVGDI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_20
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.2931

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	117.0
<b>AIC (Smaller is Better)</b>	119.0
<b>AICC (Smaller is Better)</b>	119.1
<b>BIC (Smaller is Better)</b>	121.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	65.37	<.0001
<b>SEX</b>	1	63	1.80	0.1847
<b>UCPDGR1</b>	1	63	0.07	0.7925
<b>TRTP</b>	1	63	3.65	0.0607

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	1.8994	0.08589	63	22.12	<.0001	0.05 1.7278 2.0711
<b>TRTP</b>	mCC	1.6364	0.1135	63	14.41	<.0001	0.05 1.4095 1.8633

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.2630	0.1377	63	1.91	0.0607	0.05	-0.01213 0.5381



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATDI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_21
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	100.12

Fit Statistics	
-2 Res Log Likelihood	565.6
AIC (Smaller is Better)	567.6
AICC (Smaller is Better)	567.7
BIC (Smaller is Better)	569.9

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	73	35.22	<.0001
SEX	1	73	0.72	0.4000
UCPDGR1	1	73	0.62	0.4320
TRTP	1	73	2.89	0.0936

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	33.3986	1.4904 73	22.41	<.0001	0.05	30.4281 36.3691
TRTP	mCC	29.3412	1.9747 73	14.86	<.0001	0.05	25.4055 33.2768

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	4.0574	2.3886 73	1.70	0.0936	0.05	-0.7030	8.8179

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATDI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_22
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	87.1682

Fit Statistics	
-2 Res Log Likelihood	525.8
AIC (Smaller is Better)	527.8
AICC (Smaller is Better)	527.8
BIC (Smaller is Better)	530.0

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	69	47.45	<.0001
SEX	1	69	0.04	0.8504
UCPDGR1	1	69	2.80	0.0989
TRTP	1	69	4.50	0.0376

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	32.4474	1.4027 69	23.13	<.0001	0.05	29.6490 35.2458
TRTP	mCC	27.5281	1.9474 69	14.14	<.0001	0.05	23.6431 31.4132

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	4.9193	2.3198 69	2.12	0.0376	0.05	0.2914	9.5472

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: ATDI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_23
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	72.3443

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	534.5
<b>AIC (Smaller is Better)</b>	536.5
<b>AICC (Smaller is Better)</b>	536.5
<b>BIC (Smaller is Better)</b>	538.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	50.42	<.0001
<b>SEX</b>	1	72	0.39	0.5332
<b>UCPDGR1</b>	1	72	0.15	0.6990
<b>TRTP</b>	1	72	1.31	0.2554

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	27.3538	1.2362 72	22.13	<.0001	0.05	24.8896 29.8181
<b>TRTP</b>	mCC	24.9851	1.7193 72	14.53	<.0001	0.05	21.5578 28.4123



**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	2.3688	2.0663	72	1.15	0.2554	0.05	-1.7503	6.4878	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: ATDI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_24
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	2THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	113.50

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	521.2
<b>AIC (Smaller is Better)</b>	523.2
<b>AICC (Smaller is Better)</b>	523.3
<b>BIC (Smaller is Better)</b>	525.4

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	66	36.34	<.0001
<b>SEX</b>	1	66	1.72	0.1939
<b>UCPDGR1</b>	1	66	0.25	0.6194
<b>TRTP</b>	1	66	16.37	0.0001

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	32.8571	1.6178 66	20.31	<.0001	0.05	29.6271 36.0871
<b>TRTP</b>	mCC	21.8664	2.2726 66	9.62	<.0001	0.05	17.3290 26.4037

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	10.9908	2.7169 66	4.05	0.0001	0.05	5.5664	16.4152

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: ATDI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_25
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	177.67

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	526.6
<b>AIC (Smaller is Better)</b>	528.6
<b>AICC (Smaller is Better)</b>	528.7
<b>BIC (Smaller is Better)</b>	530.8

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	32.31	<.0001
<b>SEX</b>	1	63	2.62	0.1103
<b>UCPDGR1</b>	1	63	0.48	0.4904
<b>TRTP</b>	1	63	8.84	0.0042

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	34.0569	2.1038 63	16.19	<.0001	0.05	29.8528 38.2610
<b>TRTP</b>	mCC	23.9412	2.7989 63	8.55	<.0001	0.05	18.3481 29.5342

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	10.1157	3.4014 63	2.97	0.0042	0.05	3.3186	16.9129

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGQMI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_26
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	24.3239

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	461.9
<b>AIC (Smaller is Better)</b>	463.9
<b>AICC (Smaller is Better)</b>	463.9
<b>BIC (Smaller is Better)</b>	466.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	73	109.34	<.0001
<b>SEX</b>	1	73	0.00	0.9781
<b>UCPDGR1</b>	1	73	0.03	0.8677
<b>TRTP</b>	1	73	35.94	<.0001

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	24.2026	0.7348 73	32.94	<.0001	0.05	22.7381 25.6672
<b>TRTP</b>	mCC	31.2436	0.9714 73	32.16	<.0001	0.05	29.3077 33.1795

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-7.0410	1.1744 73	-6.00	<.0001	0.05	-9.3816	-4.7003

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGQMI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_27
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	41.1061

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	473.7
<b>AIC (Smaller is Better)</b>	475.7
<b>AICC (Smaller is Better)</b>	475.8
<b>BIC (Smaller is Better)</b>	478.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	69	41.06	<.0001
<b>SEX</b>	1	69	0.46	0.4995
<b>UCPDGR1</b>	1	69	0.01	0.9230
<b>TRTP</b>	1	69	12.75	0.0007

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	25.3892	0.9635 69	26.35	<.0001	0.05 23.4672 27.3113
<b>TRTP</b>	mCC	31.0799	1.3370 69	23.25	<.0001	0.05 28.4127 33.7472

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-5.6907	1.5940 69	-3.57	0.0007	0.05	-8.8706	-2.5109

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: AAVGQMI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_28
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	40.2662

Fit Statistics	
-2 Res Log Likelihood	492.2
AIC (Smaller is Better)	494.2
AICC (Smaller is Better)	494.2
BIC (Smaller is Better)	496.5

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	72	44.88	<.0001
SEX	1	72	0.31	0.5775
UCPDGR1	1	72	0.07	0.7989
TRTP	1	72	17.32	<.0001

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	26.3131	0.9223 72	28.53	<.0001	0.05	24.4746 28.1517
TRTP	mCC	32.7272	1.2819 72	25.53	<.0001	0.05	30.1717 35.2826

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-6.4141	1.5410 72	-4.16	<.0001	0.05	-9.4859	-3.3422



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: AAVGQMI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_29
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	44.0617

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	458.4
<b>AIC (Smaller is Better)</b>	460.4
<b>AICC (Smaller is Better)</b>	460.5
<b>BIC (Smaller is Better)</b>	462.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	66	34.12	<.0001
<b>SEX</b>	1	66	1.66	0.2020
<b>UCPDGR1</b>	1	66	1.81	0.1834
<b>TRTP</b>	1	66	22.65	<.0001

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	25.3421	1.0058 66	25.19	<.0001	0.05	23.3339 27.3503
<b>TRTP</b>	mCC	33.3408	1.4106 66	23.64	<.0001	0.05	30.5243 36.1572

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-7.9987	1.6807 66	-4.76	<.0001	0.05	-11.3542	-4.6431

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: AAVGQMI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_30
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	2THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates Cov Parm Estimate</b>	
<b>Residual</b>	46.3545

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	441.6
<b>AIC (Smaller is Better)</b>	443.6
<b>AICC (Smaller is Better)</b>	443.6
<b>BIC (Smaller is Better)</b>	445.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	41.47	<.0001
<b>SEX</b>	1	63	3.08	0.0843
<b>UCPDGR1</b>	1	63	0.53	0.4680
<b>TRTP</b>	1	63	23.68	<.0001

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	25.3529	1.0754 63	23.58	<.0001	0.05	23.2040 27.5018
<b>TRTP</b>	mCC	33.8161	1.4298 63	23.65	<.0001	0.05	30.9590 36.6733

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-8.4632	1.7391 63	-4.87	<.0001	0.05	-11.9386	-4.9879

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGQCI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_31
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	61.7384

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	530.8
<b>AIC (Smaller is Better)</b>	532.8
<b>AICC (Smaller is Better)</b>	532.8
<b>BIC (Smaller is Better)</b>	535.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	73	104.02	<.0001
<b>SEX</b>	1	73	0.10	0.7547
<b>UCPDGR1</b>	1	73	0.02	0.8888
<b>TRTP</b>	1	73	32.75	<.0001

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	37.0939	1.1712 73	31.67	<.0001	0.05	34.7597 39.4281
<b>TRTP</b>	mCC	47.8060	1.5500 73	30.84	<.0001	0.05	44.7168 50.8952



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-10.7122	1.8719 73	-5.72	<.0001	0.05	-14.4428	-6.9816

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGQCI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_32
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	95.7638

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	533.0
<b>AIC (Smaller is Better)</b>	535.0
<b>AICC (Smaller is Better)</b>	535.1
<b>BIC (Smaller is Better)</b>	537.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	69	47.87	<.0001
<b>SEX</b>	1	69	0.50	0.4799
<b>UCPDGR1</b>	1	69	0.15	0.6970
<b>TRTP</b>	1	69	10.29	0.0020

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	39.0394	1.4703 69	26.55	<.0001	0.05	36.1063 41.9725
<b>TRTP</b>	mCC	46.8416	2.0416 69	22.94	<.0001	0.05	42.7687 50.9144

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-7.8022	2.4317 69	-3.21	0.0020	0.05	-12.6533	-2.9510

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: AAVGQCI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_33
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	100.87

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	559.2
<b>AIC (Smaller is Better)</b>	561.2
<b>AICC (Smaller is Better)</b>	561.3
<b>BIC (Smaller is Better)</b>	563.5

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	52.61	<.0001
<b>SEX</b>	1	72	0.37	0.5448
<b>UCPDGR1</b>	1	72	0.09	0.7684
<b>TRTP</b>	1	72	19.89	<.0001

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	39.3444	1.4596 72	26.96	<.0001	0.05 36.4348 42.2541
<b>TRTP</b>	mCC	50.2185	2.0302 72	24.74	<.0001	0.05 46.1715 54.2656

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-10.8741	2.4384 72	-4.46	<.0001	0.05	-15.7349	-6.0132

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: AAVGQCI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_34
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71





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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	127.46

Fit Statistics	
-2 Res Log Likelihood	529.4
AIC (Smaller is Better)	531.4
AICC (Smaller is Better)	531.5
BIC (Smaller is Better)	533.6

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	66	35.32	<.0001
SEX	1	66	0.93	0.3374
UCPDGR1	1	66	1.05	0.3088
TRTP	1	66	20.98	<.0001

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	37.9607	1.7110 66	22.19	<.0001	0.05 34.5446 41.3768
TRTP	mCC	51.0681	2.4054 66	21.23	<.0001	0.05 46.2655 55.8708

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-13.1075	2.8615 66	-4.58	<.0001	0.05	-18.8207	-7.3942

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: AAVGQCI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_35
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	127.01

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	506.0
<b>AIC (Smaller is Better)</b>	508.0
<b>AICC (Smaller is Better)</b>	508.1
<b>BIC (Smaller is Better)</b>	510.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	36.86	<.0001
<b>SEX</b>	1	63	2.43	0.1239
<b>UCPDGR1</b>	1	63	0.28	0.5971
<b>TRTP</b>	1	63	20.60	<.0001

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	38.3630	1.7789 63	21.57	<.0001	0.05	34.8082 41.9179
<b>TRTP</b>	mCC	51.4490	2.3732 63	21.68	<.0001	0.05	46.7065 56.1916

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-13.0860	2.8835 63	-4.54	<.0001	0.05	-18.8483	-7.3238

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATII, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_36
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	2419.44

Fit Statistics	
-2 Res Log Likelihood	801.3
AIC (Smaller is Better)	803.3
AICC (Smaller is Better)	803.3
BIC (Smaller is Better)	805.5

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	73	32.46	<.0001
SEX	1	73	0.10	0.7542
UCPDGR1	1	73	0.09	0.7604
TRTP	1	73	0.25	0.6188

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	201.17	7.3675 73	27.30	<.0001	0.05 186.49 215.85
TRTP	mCC	207.04	9.8338 73	21.05	<.0001	0.05 187.44 226.64

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-5.8708	11.7502	73	-0.50	0.6188	0.05	-29.2889 17.5473



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATII, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_37
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	3757.88

Fit Statistics	
-2 Res Log Likelihood	788.9
AIC (Smaller is Better)	790.9
AICC (Smaller is Better)	791.0
BIC (Smaller is Better)	793.1

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	69	12.52	0.0007
SEX	1	69	0.00	0.9630
UCPDGR1	1	69	0.15	0.6974
TRTP	1	69	2.60	0.1113

		Least Squares Means						
		Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	181.64	9.2854 69	19.56	<.0001	0.05	163.12	200.17
TRTP	mCC	206.20	12.8995 69	15.99	<.0001	0.05	180.46	231.93

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-24.5553	15.2219 69	-1.61	0.1113	0.05	-54.9222	5.8116

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: ATII, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_38
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	3076.06

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	807.8
<b>AIC (Smaller is Better)</b>	809.8
<b>AICC (Smaller is Better)</b>	809.9
<b>BIC (Smaller is Better)</b>	812.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	19.61	<.0001
<b>SEX</b>	1	72	0.99	0.3220
<b>UCPDGR1</b>	1	72	0.00	0.9839
<b>TRTP</b>	1	72	6.15	0.0155

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	155.95	8.1554 72	19.12	<.0001	0.05	139.69 172.21
<b>TRTP</b>	mCC	189.30	11.2711 72	16.79	<.0001	0.05	166.83 211.77

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-33.3465	13.4484 72	-2.48	0.0155	0.05	-60.1554	-6.5375

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: ATII, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_39
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	4030.53

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	759.9
<b>AIC (Smaller is Better)</b>	761.9
<b>AICC (Smaller is Better)</b>	761.9
<b>BIC (Smaller is Better)</b>	764.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	66	8.94	0.0039
<b>SEX</b>	1	66	1.48	0.2287
<b>UCPDGR1</b>	1	66	0.22	0.6437
<b>TRTP</b>	1	66	1.76	0.1893

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	173.43	9.7349 66	17.82	<.0001	0.05	153.99 192.86
<b>TRTP</b>	mCC	194.73	13.6357 66	14.28	<.0001	0.05	167.51 221.96



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-21.3040	16.0611	66	-1.33	0.1893	0.05	-53.3710	10.7630

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: ATII, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_40
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	4150.95

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	728.1
<b>AIC (Smaller is Better)</b>	730.1
<b>AICC (Smaller is Better)</b>	730.2
<b>BIC (Smaller is Better)</b>	732.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	12.10	0.0009
<b>SEX</b>	1	63	0.09	0.7693
<b>UCPDGR1</b>	1	63	0.18	0.6737
<b>TRTP</b>	1	63	0.58	0.4483

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	168.55	10.3861	63	16.23	<.0001	0.05 147.80 189.31
<b>TRTP</b>	mCC	181.05	13.6843	63	13.23	<.0001	0.05 153.71 208.40

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-12.5000	16.3827	63	-0.76	0.4483	0.05	-45.2382	20.2382

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGII, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_41
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	8.8045

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	386.3
<b>AIC (Smaller is Better)</b>	388.3
<b>AICC (Smaller is Better)</b>	388.3
<b>BIC (Smaller is Better)</b>	390.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	73	149.45	<.0001
<b>SEX</b>	1	73	13.37	0.0005
<b>UCPDGR1</b>	1	73	0.00	0.9672
<b>TRTP</b>	1	73	2.24	0.1385

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	11.5765	0.4420 73	26.19	<.0001	0.05	10.6956 12.4573
<b>TRTP</b>	mCC	12.6422	0.5907 73	21.40	<.0001	0.05	11.4650 13.8194

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-1.0657	0.7115 73	-1.50	0.1385	0.05	-2.4838	0.3523

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGII, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_42
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74





Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	10.2524

Fit Statistics	
-2 Res Log Likelihood	376.5
AIC (Smaller is Better)	378.5
AICC (Smaller is Better)	378.5
BIC (Smaller is Better)	380.7

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	69	83.11	<.0001
SEX	1	69	9.50	0.0029
UCPDGR1	1	69	0.13	0.7220
TRTP	1	69	5.69	0.0198

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	10.8178	0.4812 69	22.48	<.0001	0.05 9.8577 11.7778
TRTP	mCC	12.7268	0.6757 69	18.84	<.0001	0.05 11.3789 14.0748

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-1.9091	0.8004	69	-2.39	0.0198	0.05	-3.5059	-0.3122

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: AAVGII, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_43
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	9.7482

Fit Statistics	
-2 Res Log Likelihood	388.6
AIC (Smaller is Better)	390.6
AICC (Smaller is Better)	390.6
BIC (Smaller is Better)	392.9

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	72	40.14	<.0001
SEX	1	72	0.33	0.5674
UCPDGR1	1	72	0.03	0.8534
TRTP	1	72	18.30	<.0001

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	9.6993	0.4537 72	21.38	<.0001	0.05	8.7948 10.6038
TRTP	mCC	12.9611	0.6362 72	20.37	<.0001	0.05	11.6929 14.2293

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-3.2618	0.7625 72	-4.28	<.0001	0.05	-4.7818	-1.7418

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: AAVGII, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_44
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	21.3421

Fit Statistics	
-2 Res Log Likelihood	409.2
AIC (Smaller is Better)	411.2
AICC (Smaller is Better)	411.3
BIC (Smaller is Better)	413.4

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	66	26.08	<.0001
SEX	1	66	0.76	0.3868
UCPDGR1	1	66	0.86	0.3576
TRTP	1	66	17.11	0.0001

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	9.8380	0.7002 66	14.05	<.0001	0.05	8.4400 11.2360
TRTP	mCC	14.7359	0.9958 66	14.80	<.0001	0.05	12.7477 16.7240

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-4.8979	1.1840 66	-4.14	0.0001	0.05	-7.2618	-2.5339



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: AAVGII, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_45
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	19.2487

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	384.6
<b>AIC (Smaller is Better)</b>	386.6
<b>AICC (Smaller is Better)</b>	386.6
<b>BIC (Smaller is Better)</b>	388.7

<b>Type 3 Tests of Fixed Effects</b>			
<b>Num Den</b>			
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value Pr &gt; F</b>
<b>BASE</b>	1	63	19.52 <.0001
<b>SEX</b>	1	63	0.07 0.7967
<b>UCPDGR1</b>	1	63	0.07 0.7872
<b>TRTP</b>	1	63	7.07 0.0099

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	9.7478	0.6920 63	14.09	<.0001	0.05 8.3649 11.1307
<b>TRTP</b>	mCC	12.7434	0.9312 63	13.68	<.0001	0.05 10.8824 14.6043

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-2.9956	1.1262 63	-2.66	0.0099	0.05	-5.2461	-0.7450

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATDFI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_46
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	2758.77

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	811.0
<b>AIC (Smaller is Better)</b>	813.0
<b>AICC (Smaller is Better)</b>	813.0
<b>BIC (Smaller is Better)</b>	815.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	73	23.67	<.0001
<b>SEX</b>	1	73	0.62	0.4333
<b>UCPDGR1</b>	1	73	0.06	0.8099
<b>TRTP</b>	1	73	0.04	0.8445

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	235.24	7.8635 73	29.92	<.0001	0.05	219.57 250.91
<b>TRTP</b>	mCC	237.70	10.4535 73	22.74	<.0001	0.05	216.87 258.54

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-2.4655	12.5288	73	-0.20	0.8445	0.05	-27.4355	22.5044

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATDFI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_47
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	4086.81

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	794.8
<b>AIC (Smaller is Better)</b>	796.8
<b>AICC (Smaller is Better)</b>	796.8
<b>BIC (Smaller is Better)</b>	799.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	69	8.42	0.0050
<b>SEX</b>	1	69	0.03	0.8638
<b>UCPDGR1</b>	1	69	0.23	0.6312
<b>TRTP</b>	1	69	1.53	0.2202

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	214.85	9.6767	69	22.20	<.0001	0.05 195.55 234.16
<b>TRTP</b>	mCC	234.48	13.4165	69	17.48	<.0001	0.05 207.72 261.25



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-19.6291	15.8654	69	-1.24	0.2202	0.05	-51.2797	12.0215

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: ATDFI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_48
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	3327.18

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	813.6
<b>AIC (Smaller is Better)</b>	815.6
<b>AICC (Smaller is Better)</b>	815.6
<b>BIC (Smaller is Better)</b>	817.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	16.42	0.0001
<b>SEX</b>	1	72	1.18	0.2813
<b>UCPDGR1</b>	1	72	0.03	0.8588
<b>TRTP</b>	1	72	4.83	0.0312

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	183.84	8.4763 72	21.69	<.0001	0.05 166.94 200.73
<b>TRTP</b>	mCC	214.58	11.7000 72	18.34	<.0001	0.05 191.26 237.90

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-30.7434	13.9860 72	-2.20	0.0312	0.05	-58.6240	-2.8628

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: ATDFI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_49
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	4475.88

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	766.9
<b>AIC (Smaller is Better)</b>	768.9
<b>AICC (Smaller is Better)</b>	769.0
<b>BIC (Smaller is Better)</b>	771.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	66	6.25	0.0149
<b>SEX</b>	1	66	1.52	0.2213
<b>UCPDGR1</b>	1	66	0.16	0.6906
<b>TRTP</b>	1	66	0.33	0.5696

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	207.34	10.2656	66	20.20	<.0001	0.05 186.85 227.84
<b>TRTP</b>	mCC	217.01	14.3007	66	15.17	<.0001	0.05 188.45 245.56

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-9.6650	16.9099	66	-0.57	0.5696	0.05	-43.4267	24.0967

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: ATDFI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_50
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	4498.19

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	733.2
<b>AIC (Smaller is Better)</b>	735.2
<b>AICC (Smaller is Better)</b>	735.3
<b>BIC (Smaller is Better)</b>	737.4

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	11.60	0.0012
<b>SEX</b>	1	63	0.00	0.9553
<b>UCPDGR1</b>	1	63	0.29	0.5935
<b>TRTP</b>	1	63	0.01	0.9143

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	202.93	10.8096	63	18.77	<.0001	0.05 181.33 224.53
<b>TRTP</b>	mCC	204.77	14.1926	63	14.43	<.0001	0.05 176.41 233.13

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	-1.8419	17.0542	63	-0.11	0.9143	0.05	-35.9219	32.2381

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATWI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_51
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	696745

Fit Statistics	
-2 Res Log Likelihood	1221.2
AIC (Smaller is Better)	1223.2
AICC (Smaller is Better)	1223.2
BIC (Smaller is Better)	1225.4

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	73	52.85	<.0001
SEX	1	73	0.58	0.4492
UCPDGR1	1	73	0.00	0.9653
TRTP	1	73	0.67	0.4144

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	1968.73	124.39 73	15.83	<.0001	0.05	1720.83 2216.63
TRTP	mCC	2132.13	164.97 73	12.92	<.0001	0.05	1803.33 2460.92

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-163.40	199.08 73	-0.82	0.4144	0.05	-560.16	233.37

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ATWI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_52
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates Cov Parm Estimate</b>	
<b>Residual</b>	756197

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	1161.3
<b>AIC (Smaller is Better)</b>	1163.3
<b>AICC (Smaller is Better)</b>	1163.3
<b>BIC (Smaller is Better)</b>	1165.5

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	69	25.92	<.0001
<b>SEX</b>	1	69	0.99	0.3226
<b>UCPDGR1</b>	1	69	0.15	0.6966
<b>TRTP</b>	1	69	0.03	0.8690

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	2031.40	130.65 69	15.55	<.0001	0.05	1770.76 2292.05
<b>TRTP</b>	mCC	1995.61	181.69 69	10.98	<.0001	0.05	1633.15 2358.07

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	35.7915	216.28	69	0.17	0.8690	0.05	-395.67 467.26



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: ATWI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_53
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	787056

Fit Statistics	
-2 Res Log Likelihood	1213.5
AIC (Smaller is Better)	1215.5
AICC (Smaller is Better)	1215.6
BIC (Smaller is Better)	1217.8

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	72	35.92	<.0001
SEX	1	72	2.82	0.0974
UCPDGR1	1	72	0.24	0.6290
TRTP	1	72	1.05	0.3090

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	2154.82	128.93 72	16.71	<.0001	0.05	1897.80 2411.84
TRTP	mCC	1933.83	179.55 72	10.77	<.0001	0.05	1575.90 2291.75

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	220.99	215.70	72	1.02	0.3090	0.05	-209.00 650.97

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: ATWI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_54
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
Residual 1286823

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	1147.1
<b>AIC (Smaller is Better)</b>	1149.1
<b>AICC (Smaller is Better)</b>	1149.2
<b>BIC (Smaller is Better)</b>	1151.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	66	22.25	<.0001
<b>SEX</b>	1	66	1.47	0.2290
<b>UCPDGR1</b>	1	66	0.13	0.7219
<b>TRTP</b>	1	66	6.90	0.0107

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	2552.83	171.93 66	14.85	<.0001	0.05	2209.57 2896.09
<b>TRTP</b>	mCC	1793.49	242.71 66	7.39	<.0001	0.05	1308.90 2278.08

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	759.34	289.02 66	2.63	0.0107	0.05	182.29	1336.38

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: ATWI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_55
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	844351

Fit Statistics	
-2 Res Log Likelihood	1069.7
AIC (Smaller is Better)	1071.7
AICC (Smaller is Better)	1071.7
BIC (Smaller is Better)	1073.8

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	63	52.98	<.0001
SEX	1	63	3.60	0.0624
UCPDGR1	1	63	0.03	0.8583
TRTP	1	63	11.43	0.0012

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	2715.79	145.23 63	18.70	<.0001	0.05	2425.58 3006.01
TRTP	mCC	1917.80	193.90 63	9.89	<.0001	0.05	1530.31 2305.28



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	798.00	236.01 63	3.38	0.0012	0.05	326.36	1269.63

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGWI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_56
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1575.57

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	770.6
<b>AIC (Smaller is Better)</b>	772.6
<b>AICC (Smaller is Better)</b>	772.7
<b>BIC (Smaller is Better)</b>	774.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	73	158.78	<.0001
<b>SEX</b>	1	73	1.86	0.1764
<b>UCPDGR1</b>	1	73	0.00	0.9773
<b>TRTP</b>	1	73	1.19	0.2791

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	118.64	5.9445 73	19.96	<.0001	0.05 106.80 130.49
<b>TRTP</b>	mCC	128.95	7.8377 73	16.45	<.0001	0.05 113.33 144.57

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-10.3031	9.4494 73	-1.09	0.2791	0.05	-29.1357	8.5295

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGWI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_57
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	2335.29

Fit Statistics	
-2 Res Log Likelihood	756.7
AIC (Smaller is Better)	758.7
AICC (Smaller is Better)	758.8
BIC (Smaller is Better)	760.9

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	69	77.98	<.0001
SEX	1	69	1.43	0.2364
UCPDGR1	1	69	0.03	0.8584
TRTP	1	69	0.02	0.8917

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	126.47	7.2851 69	17.36	<.0001	0.05	111.93 141.00
TRTP	mCC	124.83	10.0750 69	12.39	<.0001	0.05	104.73 144.93

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	1.6374	11.9849	69	0.14	0.8917	0.05	-22.2718	25.5466

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: AAVGWI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_58
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	2965.36

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	805.9
<b>AIC (Smaller is Better)</b>	807.9
<b>AICC (Smaller is Better)</b>	808.0
<b>BIC (Smaller is Better)</b>	810.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	80.91	<.0001
<b>SEX</b>	1	72	5.13	0.0265
<b>UCPDGR1</b>	1	72	0.38	0.5415
<b>TRTP</b>	1	72	1.18	0.2811

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	145.68	7.9435 72	18.34	<.0001	0.05 129.85 161.52
<b>TRTP</b>	mCC	131.34	10.9981 72	11.94	<.0001	0.05 109.42 153.27

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	14.3385	13.2044	72	1.09	0.2811	0.05	-11.9839	40.6609

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: AAVGWI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_59
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	3125.96

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	744.0
<b>AIC (Smaller is Better)</b>	746.0
<b>AICC (Smaller is Better)</b>	746.1
<b>BIC (Smaller is Better)</b>	748.2

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	66	70.25	<.0001
<b>SEX</b>	1	66	1.75	0.1909
<b>UCPDGR1</b>	1	66	0.08	0.7850
<b>TRTP</b>	1	66	1.33	0.2525

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	147.71	8.5050 66	17.37	<.0001	0.05	130.73 164.69
<b>TRTP</b>	mCC	131.39	11.9051 66	11.04	<.0001	0.05	107.62 155.16

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	16.3184	14.1359	66	1.15	0.2525	0.05	-11.9049	44.5416

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: AAVGWI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_60
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	2143.30

Fit Statistics	
-2 Res Log Likelihood	687.4
AIC (Smaller is Better)	689.4
AICC (Smaller is Better)	689.4
BIC (Smaller is Better)	691.5

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	63	97.08	<.0001
SEX	1	63	2.74	0.1029
UCPDGR1	1	63	0.04	0.8357
TRTP	1	63	3.67	0.0598

		Least Squares Means				
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	157.20	7.3032 63	21.52	<.0001	0.05 142.60 171.79
TRTP	mCC	134.51	9.7850 63	13.75	<.0001	0.05 114.96 154.06

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	22.6871	11.8354	63	1.92	0.0598	0.05	-0.9640 46.3382



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGPMI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_61
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1885.19

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	783.5
<b>AIC (Smaller is Better)</b>	785.5
<b>AICC (Smaller is Better)</b>	785.6
<b>BIC (Smaller is Better)</b>	787.8

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	73	214.00	<.0001
<b>SEX</b>	1	73	8.49	0.0047
<b>UCPDGR1</b>	1	73	2.29	0.1344
<b>TRTP</b>	1	73	8.63	0.0044

<b>Least Squares Means</b>						
<b>Standard</b>						
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	THSm2.2	237.80	6.4812 73	36.69	<.0001	0.05 224.89 250.72
<b>TRTP</b>	mCC	207.43	8.5418 73	24.28	<.0001	0.05 190.41 224.46

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	30.3688	10.3400 73	2.94	0.0044	0.05	9.7612	50.9765

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGPMI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_62
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	1998.90

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	745.9
<b>AIC (Smaller is Better)</b>	747.9
<b>AICC (Smaller is Better)</b>	747.9
<b>BIC (Smaller is Better)</b>	750.1

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	69	192.87	<.0001
<b>SEX</b>	1	69	0.19	0.6682
<b>UCPDGR1</b>	1	69	4.84	0.0311
<b>TRTP</b>	1	69	6.44	0.0134

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	243.27	6.7187	69	36.21	<.0001	0.05 229.87 256.68
<b>TRTP</b>	mCC	215.13	9.3050	69	23.12	<.0001	0.05 196.56 233.69

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	28.1454	11.0887	69	2.54	0.0134	0.05	6.0239	50.2668

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: AAVGPMI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_63
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	4815.68

Fit Statistics	
-2 Res Log Likelihood	840.7
AIC (Smaller is Better)	842.7
AICC (Smaller is Better)	842.8
BIC (Smaller is Better)	845.0

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	72	62.02	<.0001
SEX	1	72	5.27	0.0247
UCPDGR1	1	72	0.03	0.8675
TRTP	1	72	20.61	<.0001

		Least Squares Means				
				Standard		
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	292.39	10.0872	72	28.99 <.0001	0.05 272.28 312.49
TRTP	mCC	216.01	14.0007	72	15.43 <.0001	0.05 188.10 243.92



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	76.3795	16.8262	72	4.54	<.0001	0.05	42.8370 109.92

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: AAVGPMI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_64
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	5996.09

Fit Statistics	
-2 Res Log Likelihood	786.8
AIC (Smaller is Better)	788.8
AICC (Smaller is Better)	788.8
BIC (Smaller is Better)	791.0

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	66	45.62	<.0001
SEX	1	66	1.00	0.3201
UCPDGR1	1	66	0.24	0.6254
TRTP	1	66	14.90	0.0003

		Least Squares Means				
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	296.79	11.7456 66	25.27	<.0001	0.05 273.34 320.24
TRTP	mCC	221.25	16.4258 66	13.47	<.0001	0.05 188.46 254.05

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	75.5329	19.5706	66	3.86	0.0003	0.05	36.4589 114.61

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: AAVGPMI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_65
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
TRTP	2THSm2.2 mCC
SEX	2F M
UCPDGR1	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	7653.67

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	767.4
<b>AIC (Smaller is Better)</b>	769.4
<b>AICC (Smaller is Better)</b>	769.5
<b>BIC (Smaller is Better)</b>	771.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	49.31	<.0001
<b>SEX</b>	1	63	2.03	0.1596
<b>UCPDGR1</b>	1	63	0.36	0.5521
<b>TRTP</b>	1	63	25.72	<.0001

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	331.29	13.8008	63	24.00	<.0001	0.05 303.71 358.86
<b>TRTP</b>	mCC	218.29	18.3480	63	11.90	<.0001	0.05 181.62 254.95

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	113.00	22.2809 63	5.07	<.0001	0.05	68.4728	157.52

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGPCI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_66
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	4451.16

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	847.3
<b>AIC (Smaller is Better)</b>	849.3
<b>AICC (Smaller is Better)</b>	849.4
<b>BIC (Smaller is Better)</b>	851.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	73	241.65	<.0001
<b>SEX</b>	1	73	8.63	0.0044
<b>UCPDGR1</b>	1	73	0.95	0.3325
<b>TRTP</b>	1	73	7.97	0.0061

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	388.24	9.9704	73	38.94	<.0001	0.05 368.37 408.11
<b>TRTP</b>	mCC	343.41	13.1394	73	26.14	<.0001	0.05 317.22 369.60

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	44.8317	15.8831	73	2.82	0.0061	0.05	13.1767 76.4868

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: AAVGPCI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_67
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	5312.68

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	814.4
<b>AIC (Smaller is Better)</b>	816.4
<b>AICC (Smaller is Better)</b>	816.5
<b>BIC (Smaller is Better)</b>	818.6

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	69	200.86	<.0001
<b>SEX</b>	1	69	0.45	0.5035
<b>UCPDGR1</b>	1	69	1.83	0.1803
<b>TRTP</b>	1	69	7.54	0.0077

Least Squares Means								
Standard								
Effect	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	397.23	10.9591	69	36.25	<.0001	0.05	375.37 419.09
TRTP	mCC	347.60	15.1783	69	22.90	<.0001	0.05	317.32 377.88

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	49.6290	18.0783 69	2.75	0.0077	0.05	13.5639	85.6942

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: AAVGPCI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_68
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	12888

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	912.7
<b>AIC (Smaller is Better)</b>	914.7
<b>AICC (Smaller is Better)</b>	914.7
<b>BIC (Smaller is Better)</b>	917.0

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	82.89	<.0001
<b>SEX</b>	1	72	4.10	0.0466
<b>UCPDGR1</b>	1	72	0.07	0.7869
<b>TRTP</b>	1	72	15.64	0.0002

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	465.12	16.5132	72	28.17	<.0001	0.05 432.20 498.04
<b>TRTP</b>	mCC	356.26	22.9138	72	15.55	<.0001	0.05 310.58 401.94

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	108.86	27.5268	72	3.95	0.0002	0.05	53.9824 163.73



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: AAVGPCI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_69
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	13824

Fit Statistics	
-2 Res Log Likelihood	843.0
AIC (Smaller is Better)	845.0
AICC (Smaller is Better)	845.0
BIC (Smaller is Better)	847.2

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	66	56.80	<.0001
SEX	1	66	1.38	0.2451
UCPDGR1	1	66	0.08	0.7812
TRTP	1	66	12.50	0.0007

		Least Squares Means						
		Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	472.59	17.8520	66	26.47	<.0001	0.05	436.94 508.23
TRTP	mCC	367.47	25.0018	66	14.70	<.0001	0.05	317.55 417.38

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	105.12	29.7292	66	3.54	0.0007	0.05	45.7646 164.48

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: AAVGPCI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_70
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	12407

Fit Statistics	
-2 Res Log Likelihood	799.0
AIC (Smaller is Better)	801.0
AICC (Smaller is Better)	801.0
BIC (Smaller is Better)	803.1

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	63	83.41	<.0001
SEX	1	63	2.34	0.1313
UCPDGR1	1	63	0.28	0.5964
TRTP	1	63	33.90	<.0001

		Least Squares Means						
		Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	527.93	17.5693	63	30.05	<.0001	0.05	492.82 563.04
TRTP	mCC	362.43	23.4373	63	15.46	<.0001	0.05	315.60 409.27

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	165.50	28.4244	63	5.82	<.0001	0.05	108.70	222.30	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ASMINT, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_71
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	1.4624

Fit Statistics	
-2 Res Log Likelihood	253.2
AIC (Smaller is Better)	255.2
AICC (Smaller is Better)	255.3
BIC (Smaller is Better)	257.5

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	73	66.89	<.0001
SEX	1	73	0.72	0.3986
UCPDGR1	1	73	0.26	0.6135
TRTP	1	73	1.28	0.2609

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	3.5778	0.1805 73	19.82	<.0001	0.05	3.2181 3.9376
TRTP	mCC	3.9066	0.2428 73	16.09	<.0001	0.05	3.4228 4.3904



**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	-0.3288	0.2902	73	-1.13	0.2609	0.05	-0.9072	0.2496	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: ASMINT, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_72
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	2.2656

Fit Statistics	
-2 Res Log Likelihood	270.3
AIC (Smaller is Better)	272.3
AICC (Smaller is Better)	272.3
BIC (Smaller is Better)	274.5

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	69	50.67	<.0001
SEX	1	69	0.72	0.3986
UCPDGR1	1	69	0.00	0.9879
TRTP	1	69	0.19	0.6602

		Least Squares Means				
				Standard		
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	3.9336	0.2265 69	17.37	<.0001	0.05 3.4817 4.3855
TRTP	mCC	4.0999	0.3195 69	12.83	<.0001	0.05 3.4626 4.7372

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	-0.1663	0.3766	69	-0.44	0.6602	0.05	-0.9177	0.5851	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: ASMINT, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_73
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	2.5523

Fit Statistics	
-2 Res Log Likelihood	290.0
AIC (Smaller is Better)	292.0
AICC (Smaller is Better)	292.1
BIC (Smaller is Better)	294.3

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	72	29.87	<.0001
SEX	1	72	0.20	0.6559
UCPDGR1	1	72	0.02	0.8953
TRTP	1	72	0.14	0.7106

		Least Squares Means				
		Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.1338	0.2325 72	17.78	<.0001	0.05 3.6704 4.5972
TRTP	mCC	3.9885	0.3272 72	12.19	<.0001	0.05 3.3362 4.6408

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.1453	0.3899 72	0.37	0.7106	0.05	-0.6321	0.9226

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: ASMINT, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_74
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71





<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	2.2021

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	257.2
<b>AIC (Smaller is Better)</b>	259.2
<b>AICC (Smaller is Better)</b>	259.3
<b>BIC (Smaller is Better)</b>	261.4

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	66	34.43	<.0001
<b>SEX</b>	1	66	0.03	0.8669
<b>UCPDGR1</b>	1	66	0.05	0.8190
<b>TRTP</b>	1	66	2.93	0.0917

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	4.1930	0.2249 66	18.65	<.0001	0.05	3.7441 4.6420
<b>TRTP</b>	mCC	3.5373	0.3246 66	10.90	<.0001	0.05	2.8891 4.1854

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	0.6558	0.3832	66	1.71	0.0917	0.05	-0.1092	1.4208

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: ASMINT, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_75
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	3.3393

Fit Statistics	
-2 Res Log Likelihood	272.5
AIC (Smaller is Better)	274.5
AICC (Smaller is Better)	274.5
BIC (Smaller is Better)	276.6

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	63	39.60	<.0001
SEX	1	63	0.14	0.7133
UCPDGR1	1	63	0.42	0.5210
TRTP	1	63	0.01	0.9359

Least Squares Means						
Standard						
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	4.3175	0.2883 63	14.97	<.0001	0.05 3.7413 4.8936
TRTP	mCC	4.3555	0.3911 63	11.14	<.0001	0.05 3.5738 5.1371

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	-0.03800	0.4705 63	-0.08	0.9359	0.05	-0.9781	0.9021

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: APTI, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_76
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	13.9586

Fit Statistics	
-2 Res Log Likelihood	420.1
AIC (Smaller is Better)	422.1
AICC (Smaller is Better)	422.1
BIC (Smaller is Better)	424.4

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	73	122.54	<.0001
SEX	1	73	1.61	0.2086
UCPDGR1	1	73	0.93	0.3379
TRTP	1	73	7.72	0.0069

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	16.0667	0.5576 73	28.81	<.0001	0.05	14.9553 17.1781
TRTP	mCC	13.5842	0.7443 73	18.25	<.0001	0.05	12.1007 15.0677

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	2.4825	0.8932 73	2.78	0.0069	0.05	0.7024	4.2626



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: APTI, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_77
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	14.4815

Fit Statistics	
-2 Res Log Likelihood	400.4
AIC (Smaller is Better)	402.4
AICC (Smaller is Better)	402.5
BIC (Smaller is Better)	404.6

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	69	165.12	<.0001
SEX	1	69	5.69	0.0198
UCPDGR1	1	69	0.06	0.8131
TRTP	1	69	8.62	0.0045

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	16.9302	0.5736 69	29.52	<.0001	0.05	15.7860 18.0744
TRTP	mCC	14.1524	0.7998 69	17.69	<.0001	0.05	12.5568 15.7480

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	2.7778	0.9462 69	2.94	0.0045	0.05	0.8901	4.6655

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: APTI, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_78
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	29.7841

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	469.1
<b>AIC (Smaller is Better)</b>	471.1
<b>AICC (Smaller is Better)</b>	471.1
<b>BIC (Smaller is Better)</b>	473.3

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	60.20	<.0001
<b>SEX</b>	1	72	0.24	0.6255
<b>UCPDGR1</b>	1	72	0.26	0.6136
<b>TRTP</b>	1	72	11.55	0.0011

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	17.4865	0.7953 72	21.99	<.0001	0.05	15.9011 19.0718
<b>TRTP</b>	mCC	12.9803	1.1098 72	11.70	<.0001	0.05	10.7680 15.1927

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	4.5061	1.3258 72	3.40	0.0011	0.05	1.8632	7.1490

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: APTI, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_79
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	25.3460

Fit Statistics	
-2 Res Log Likelihood	420.5
AIC (Smaller is Better)	422.5
AICC (Smaller is Better)	422.5
BIC (Smaller is Better)	424.7

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	66	63.77	<.0001
SEX	1	66	0.43	0.5150
UCPDGR1	1	66	0.23	0.6332
TRTP	1	66	23.99	<.0001

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	18.0884	0.7629 66	23.71	<.0001	0.05	16.5652 19.6117
TRTP	mCC	11.7658	1.0906 66	10.79	<.0001	0.05	9.5883 13.9432



**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	6.3227	1.2909 66	4.90	<.0001	0.05	3.7454	8.9000

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: APTI, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_80
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	38.5408

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	428.7
<b>AIC (Smaller is Better)</b>	430.7
<b>AICC (Smaller is Better)</b>	430.8
<b>BIC (Smaller is Better)</b>	432.9

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	63	50.71	<.0001
<b>SEX</b>	1	63	0.92	0.3405
<b>UCPDGR1</b>	1	63	0.02	0.8774
<b>TRTP</b>	1	63	11.49	0.0012

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	18.9231	0.9812 63	19.29	<.0001	0.05	16.9623 20.8840
<b>TRTP</b>	mCC	13.5547	1.3134 63	10.32	<.0001	0.05	10.9301 16.1794

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	5.3684	1.5836	63	3.39	0.0012	0.05	2.2039	8.5329	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: APFEQ, Day 1 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_81
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	78

**Number of Observations**

<b>Number of Observations Read</b>	78
<b>Number of Observations Used</b>	78



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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.6676

Fit Statistics	
-2 Res Log Likelihood	195.7
AIC (Smaller is Better)	197.7
AICC (Smaller is Better)	197.7
BIC (Smaller is Better)	199.9

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	73	296.80	<.0001
SEX	1	73	14.47	0.0003
UCPDGR1	1	73	0.17	0.6799
TRTP	1	73	2.60	0.1114

		Least Squares Means						
				Standard				
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	5.3164	0.1220 73	43.57	<.0001	0.05	5.0733	5.5596
TRTP	mCC	4.9978	0.1629 73	30.67	<.0001	0.05	4.6730	5.3225

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	0.3187	0.1977 73	1.61	0.1114	0.05	-0.07544	0.7128

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y

Paramcd: APFEQ, Day 4 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_82
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	74

**Number of Observations**

<b>Number of Observations Read</b>	74
<b>Number of Observations Used</b>	74





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Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	0.9922

Fit Statistics	
-2 Res Log Likelihood	212.9
AIC (Smaller is Better)	214.9
AICC (Smaller is Better)	215.0
BIC (Smaller is Better)	217.1

Type 3 Tests of Fixed Effects				
Num Den				
Effect	DF	DF	F Value	Pr > F
BASE	1	69	177.02	<.0001
SEX	1	69	15.94	0.0002
UCPDGR1	1	69	2.71	0.1044
TRTP	1	69	0.80	0.3750

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	5.3690	0.1499 69	35.82	<.0001	0.05	5.0700 5.6680
TRTP	mCC	5.1442	0.2111 69	24.36	<.0001	0.05	4.7229 5.5654

**Differences of Least Squares Means  
Standard**

Effect	Planned Treatment	Planned Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	THSm2.2	mCC	0.2248	0.2518	69	0.89	0.3750	0.05	-0.2774	0.7271	

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y

Paramcd: APFEQ, Day 30 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_83
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	77

**Number of Observations**

<b>Number of Observations Read</b>	77
<b>Number of Observations Used</b>	77



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	2.1817

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	278.4
<b>AIC (Smaller is Better)</b>	280.4
<b>AICC (Smaller is Better)</b>	280.5
<b>BIC (Smaller is Better)</b>	282.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>BASE</b>	1	72	60.96	<.0001
<b>SEX</b>	1	72	3.50	0.0656
<b>UCPDGR1</b>	1	72	0.31	0.5789
<b>TRTP</b>	1	72	6.80	0.0111

<b>Least Squares Means</b>							
<b>Standard</b>							
<b>Effect</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower Upper</b>
<b>TRTP</b>	THSm2.2	5.9311	0.2154 72	27.53	<.0001	0.05	5.5017 6.3605
<b>TRTP</b>	mCC	4.9790	0.3025 72	16.46	<.0001	0.05	4.3759 5.5820

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	0.9521	0.3650 72	2.61	0.0111	0.05	0.2245	1.6797

**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y

Paramcd: APFEQ, Day 60 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_84
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	71

**Number of Observations**

<b>Number of Observations Read</b>	71
<b>Number of Observations Used</b>	71



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	2.7818

Fit Statistics	
-2 Res Log Likelihood	272.3
AIC (Smaller is Better)	274.3
AICC (Smaller is Better)	274.4
BIC (Smaller is Better)	276.5

Type 3 Tests of Fixed Effects			
Num Den			
Effect	DF	DF	F Value Pr > F
BASE	1	66	40.07 <.0001
SEX	1	66	0.17 0.6772
UCPDGR1	1	66	0.03 0.8540
TRTP	1	66	8.89 0.0040

Least Squares Means							
Standard							
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	THSm2.2	5.9346	0.2547 66	23.30	<.0001	0.05	5.4262 6.4430
TRTP	mCC	4.6372	0.3617 66	12.82	<.0001	0.05	3.9150 5.3593

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	THSm2.2	mCC	1.2974	0.4351 66	2.98	0.0040	0.05	0.4287	2.1661



**Listing 15.4.4.43 Analysis of HST Parameters per Cigarette - PP Set**

The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y

Paramcd: APFEQ, Day 90 Model: Mixed, Method: Normal

**Model Information**

<b>Data Set</b>	WORK.ANADT_85
<b>Dependent Variable</b>	AVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	2THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	8
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	68

**Number of Observations**

<b>Number of Observations Read</b>	68
<b>Number of Observations Used</b>	68



Number of Observations	
Number of Observations Not Used	0

Covariance Parameter Estimates	
Cov Parm Estimate	
Residual	3.1294

Fit Statistics	
-2 Res Log Likelihood	267.9
AIC (Smaller is Better)	269.9
AICC (Smaller is Better)	270.0
BIC (Smaller is Better)	272.1

Type 3 Tests of Fixed Effects				
		Num Den		
Effect	DF	DF	F Value	Pr > F
BASE	1	63	44.20	<.0001
SEX	1	63	0.96	0.3305
UCPDGR1	1	63	0.51	0.4797
TRTP	1	63	5.04	0.0284

		Least Squares Means				
				Standard		
Effect	Planned Treatment	Estimate	Error DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	THSm2.2	6.2036	0.2797 63	22.18	<.0001	0.05 5.6446 6.7625
TRTP	mCC	5.1782	0.3753 63	13.80	<.0001	0.05 4.4282 5.9283

**Differences of Least Squares Means  
Standard**

<b>Effect</b>	<b>Planned Treatment</b>	<b>Planned Treatment</b>	<b>Estimate</b>	<b>Error DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	<b>THSm2.2</b>	<b>mCC</b>	1.0253	0.4569 63	2.24	0.0284	0.05	0.1122	1.9384

**Listing 15.4.4.45.1 Analysis of CYP2A6 Activity (%) - PP Set**

The where clause used on the dataset adam.ADBX: PPROT1FL=Y and ANL02FL=Y

Paramcd: CYP2A6, Day 6/Discharge Confinement Model: Mixed, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	157

**Number of Observations**

<b>Number of Observations Read</b>	157
<b>Number of Observations Used</b>	157
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.05917

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	24.8
<b>AIC (Smaller is Better)</b>	26.8
<b>AICC (Smaller is Better)</b>	26.8
<b>BIC (Smaller is Better)</b>	29.8

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>Num Den</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	151	1045.44	<.0001
<b>SEX</b>	1	151	6.84	0.0098
<b>UCPDGR1</b>	1	151	5.36	0.0219
<b>TRTP</b>	2	151	260.16	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	4.2438	0.03904	151	108.69	<.0001	0.05	4.1666	4.3209
<b>TRTP</b>	THSm2.2	3.2129	0.02805	151	114.56	<.0001	0.05	3.1575	3.2684
<b>TRTP</b>	mCC	3.2291	0.03787	151	85.28	<.0001	0.05	3.1543	3.3040
<b>TRTP</b>	SA	4.2438	0.03904	151	108.69	<.0001	0.05	4.1666	4.3209
<b>TRTP</b>	THSm2.2	3.2129	0.02805	151	114.56	<.0001	0.05	3.1575	3.2684
<b>TRTP</b>	mCC	3.2291	0.03787	151	85.28	<.0001	0.05	3.1543	3.3040



Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.0146	0.05422	151	18.71	<.0001	0.05	0.9075	1.1218
TRTP	THSm2.2	mCC	-0.01620	0.04694	151	-0.35	0.7306	0.05	-0.1089	0.07655
TRTP	THSm2.2	SA	-1.0308	0.04791	151	-21.51	<.0001	0.05	-1.1255	-0.9362
TRTP	mCC	SA	-1.0146	0.05422	151	-18.71	<.0001	0.05	-1.1218	-0.9075

**Listing 15.4.4.45.1 Analysis of CYP2A6 Activity (%) - PP Set**

The where clause used on the dataset adam.ADBX: PPROT4FL=Y and ANL02FL=Y

Paramcd: CYP2A6, Day 90 Model: Mixed, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	148

**Number of Observations**

<b>Number of Observations Read</b>	148
<b>Number of Observations Used</b>	148



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.3195

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	263.8
<b>AIC (Smaller is Better)</b>	265.8
<b>AICC (Smaller is Better)</b>	265.8
<b>BIC (Smaller is Better)</b>	268.8

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	142	151.00	<.0001
<b>SEX</b>	1	142	1.29	0.2586
<b>UCPDGR1</b>	1	142	0.03	0.8521
<b>TRTP</b>	2	142	14.55	<.0001

		Least Squares Means								
Planned	Standard									
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	3.7058	0.09325	142	39.74	<.0001	0.05	3.5215	3.8902	
TRTP	THSm2.2	3.1222	0.06783	142	46.03	<.0001	0.05	2.9881	3.2562	
TRTP	mCC	3.1349	0.08910	142	35.18	<.0001	0.05	2.9588	3.3111	





		Least Squares Means					
Planned		Standard					
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	3.7058	0.09325	142	39.74	<.0001	0.05 3.5215 3.8902
TRTP	THSm2.2	3.1222	0.06783	142	46.03	<.0001	0.05 2.9881 3.2562
TRTP	mCC	3.1349	0.08910	142	35.18	<.0001	0.05 2.9588 3.3111

Differences of Least Squares Means									
Planned		Planned	Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	0.5709	0.1285	142	4.44	<.0001	0.05	0.3168 0.8249
TRTP	THSm2.2	mCC	-0.01278	0.1117	142	-0.11	0.9091	0.05	-0.2335 0.2079
TRTP	THSm2.2	SA	-0.5837	0.1149	142	-5.08	<.0001	0.05	-0.8108 -0.3565
TRTP	mCC	SA	-0.5709	0.1285	142	-4.44	<.0001	0.05	-0.8249 -0.3168

**Listing 15.4.4.45.1.1 Analysis of CYP2A6 Activity (%) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting CYP2A6 Activity - PP Set**

The where clause used on the dataset adam.ADBX: PPROT1FL=Y and ANL02FL=Y and anl03fl=Y

Paramcd: CYP2A6, Day 6/Discharge Confinement Model: Mixed, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	157

**Number of Observations**

<b>Number of Observations Read</b>	157
<b>Number of Observations Used</b>	157
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.05917

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	24.8
<b>AIC (Smaller is Better)</b>	26.8
<b>AICC (Smaller is Better)</b>	26.8
<b>BIC (Smaller is Better)</b>	29.8

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>Num Den</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	151	1045.44	<.0001
<b>SEX</b>	1	151	6.84	0.0098
<b>UCPDGR1</b>	1	151	5.36	0.0219
<b>TRTP</b>	2	151	260.16	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	4.2438	0.03904	151	108.69	<.0001	0.05	4.1666	4.3209
<b>TRTP</b>	THSm2.2	3.2129	0.02805	151	114.56	<.0001	0.05	3.1575	3.2684
<b>TRTP</b>	mCC	3.2291	0.03787	151	85.28	<.0001	0.05	3.1543	3.3040
<b>TRTP</b>	SA	4.2438	0.03904	151	108.69	<.0001	0.05	4.1666	4.3209
<b>TRTP</b>	THSm2.2	3.2129	0.02805	151	114.56	<.0001	0.05	3.1575	3.2684
<b>TRTP</b>	mCC	3.2291	0.03787	151	85.28	<.0001	0.05	3.1543	3.3040



Differences of Least Squares Means										
Planned		Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	1.0146	0.05422	151	18.71	<.0001	0.05	0.9075	1.1218
TRTP	THSm2.2	mCC	-0.01620	0.04694	151	-0.35	0.7306	0.05	-0.1089	0.07655
TRTP	THSm2.2	SA	-1.0308	0.04791	151	-21.51	<.0001	0.05	-1.1255	-0.9362
TRTP	mCC	SA	-1.0146	0.05422	151	-18.71	<.0001	0.05	-1.1218	-0.9075

**Listing 15.4.4.45.1.1 Analysis of CYP2A6 Activity (%) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting CYP2A6 Activity - PP Set**

The where clause used on the dataset adam.ADBX: PPROT4FL=Y and ANL02FL=Y and anl03fl=Y

Paramcd: CYP2A6, Day 90 Model: Mixed, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	147

**Number of Observations**

<b>Number of Observations Read</b>	147
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**Number of Observations**

<b>Number of Observations Used</b>	147
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.3217
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	263.1
<b>AIC (Smaller is Better)</b>	265.1
<b>AICC (Smaller is Better)</b>	265.1
<b>BIC (Smaller is Better)</b>	268.0

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	141	148.66	<.0001
<b>SEX</b>	1	141	1.28	0.2601
<b>UCPDGR1</b>	1	141	0.03	0.8562
<b>TRTP</b>	2	141	14.43	<.0001

**Least Squares Means**

<b>Planned</b>	<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
	<b>TRTP</b>	SA	3.7020	0.09358	141	39.56	<.0001	0.05	3.5170	3.8870
	<b>TRTP</b>	THSm2.2	3.1179	0.06855	141	45.49	<.0001	0.05	2.9824	3.2534



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	mCC	3.1311	0.08944	141	35.01	<.0001	0.05	2.9543 3.3079
TRTP	SA	3.7020	0.09358	141	39.56	<.0001	0.05	3.5170 3.8870
TRTP	THSm2.2	3.1179	0.06855	141	45.49	<.0001	0.05	2.9824 3.2534
TRTP	mCC	3.1311	0.08944	141	35.01	<.0001	0.05	2.9543 3.3079

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.5708	0.1290	141	4.43	<.0001	0.05 0.3159 0.8258
TRTP	THSm2.2	mCC	-0.01320	0.1124	141	-0.12	0.9067	0.05 -0.2354 0.2090
TRTP	THSm2.2	SA	-0.5840	0.1156	141	-5.05	<.0001	0.05 -0.8126 -0.3555
TRTP	mCC	SA	-0.5708	0.1290	141	-4.43	<.0001	0.05 -0.8258 -0.3159

**Listing 15.4.4.45.2 Analysis of CYP2A6 Activity (%) - FAS**

The where clause used on the dataset adam.ADBX: FASFL=Y and ANL02FL=Y

Paramcd: CYP2A6, Day 6/Discharge Confinement Model: Mixed, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	160

**Number of Observations**

<b>Number of Observations Read</b>	160
<b>Number of Observations Used</b>	160
<b>Number of Observations Not Used</b>	0





**Covariance  
Parameter  
Estimates**

<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.1184

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	131.8
<b>AIC (Smaller is Better)</b>	133.8
<b>AICC (Smaller is Better)</b>	133.8
<b>BIC (Smaller is Better)</b>	136.8

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>Num Den</b>		<b>DF F Value Pr &gt; F</b>
	<b>DF</b>	<b>DF</b>	
<b>LOGBASE</b>	1	154	471.57 <.0001
<b>SEX</b>	1	154	1.30 0.2553
<b>UCPDGR1</b>	1	154	5.26 0.0231
<b>TRTP</b>	2	154	113.78 <.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned</b>		<b>Standard</b>		<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
		<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>						
<b>TRTP</b>	<b>SA</b>	4.1756	0.05450	154	76.61	<.0001	0.05	4.0679	4.2833		
<b>TRTP</b>	<b>THSm2.2</b>	3.2190	0.03924	154	82.04	<.0001	0.05	3.1415	3.2966		
<b>TRTP</b>	<b>mCC</b>	3.2436	0.05353	154	60.59	<.0001	0.05	3.1379	3.3494		
<b>TRTP</b>	<b>SA</b>	4.1756	0.05450	154	76.61	<.0001	0.05	4.0679	4.2833		
<b>TRTP</b>	<b>THSm2.2</b>	3.2190	0.03924	154	82.04	<.0001	0.05	3.1415	3.2966		
<b>TRTP</b>	<b>mCC</b>	3.2436	0.05353	154	60.59	<.0001	0.05	3.1379	3.3494		



Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	0.9320	0.07615	154	12.24	<.0001	0.05	0.7816 1.0824
TRTP	THSm2.2	mCC	-0.02456	0.06607	154	-0.37	0.7106	0.05	-0.1551 0.1060
TRTP	THSm2.2	SA	-0.9565	0.06697	154	-14.28	<.0001	0.05	-1.0888 -0.8243
TRTP	mCC	SA	-0.9320	0.07615	154	-12.24	<.0001	0.05	-1.0824 -0.7816

**Listing 15.4.4.45.2 Analysis of CYP2A6 Activity (%) - FAS**

The where clause used on the dataset adam.ADBX: FASFL=Y and ANL02FL=Y

Paramcd: CYP2A6, Day 90 Model: Mixed, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	160

**Number of Observations**

<b>Number of Observations Read</b>	160
<b>Number of Observations Used</b>	160



<b>Number of Observations</b>	
<b>Number of Observations Not Used</b>	0

<b>Covariance Parameter Estimates</b>	
<b>Cov Parm Estimate</b>	
<b>Residual</b>	0.3366

<b>Fit Statistics</b>	
<b>-2 Res Log Likelihood</b>	292.6
<b>AIC (Smaller is Better)</b>	294.6
<b>AICC (Smaller is Better)</b>	294.7
<b>BIC (Smaller is Better)</b>	297.7

<b>Type 3 Tests of Fixed Effects</b>				
<b>Num Den</b>				
<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	154	134.39	<.0001
<b>SEX</b>	1	154	0.42	0.5191
<b>UCPDGR1</b>	1	154	0.24	0.6229
<b>TRTP</b>	2	154	10.75	<.0001

		Least Squares Means								
Planned		Standard								
Effect	Treatment	Estimate	Error	DF	t	Value	Pr >  t	Alpha	Lower	Upper
TRTP	SA	3.6420	0.09189	154	39.64	<.0001	0.05	3.4605	3.8235	
TRTP	THSm2.2	3.1452	0.06615	154	47.55	<.0001	0.05	3.0145	3.2759	
TRTP	mCC	3.1614	0.09025	154	35.03	<.0001	0.05	2.9831	3.3396	



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	3.6420	0.09189	154	39.64	<.0001	0.05	3.4605 3.8235
TRTP	THSm2.2	3.1452	0.06615	154	47.55	<.0001	0.05	3.0145 3.2759
TRTP	mCC	3.1614	0.09025	154	35.03	<.0001	0.05	2.9831 3.3396

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.4806	0.1284	154	3.74	0.0003	0.05 0.2270 0.7342
TRTP	THSm2.2	mCC	-0.01617	0.1114	154	-0.15	0.8848	0.05 -0.2362 0.2039
TRTP	THSm2.2	SA	-0.4968	0.1129	154	-4.40	<.0001	0.05 -0.7198 -0.2738
TRTP	mCC	SA	-0.4806	0.1284	154	-3.74	0.0003	0.05 -0.7342 -0.2270

**Listing 15.4.4.45.2.1 Analysis of CYP2A6 Activity (%) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting CYP2A6 Activity - FAS**

The where clause used on the dataset adam.ADBX: FASFL=Y and ANL02FL=Y and anl03fl=Y

Paramcd: CYP2A6, Day 6/Discharge Confinement Model: Mixed, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_1
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	160

**Number of Observations**

<b>Number of Observations Read</b>	160
<b>Number of Observations Used</b>	160
<b>Number of Observations Not Used</b>	0



**Covariance  
Parameter  
Estimates**  
**Cov Parm Estimate**  
**Residual** 0.1184

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	131.8
<b>AIC (Smaller is Better)</b>	133.8
<b>AICC (Smaller is Better)</b>	133.8
<b>BIC (Smaller is Better)</b>	136.8

**Type 3 Tests of Fixed Effects**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>Num Den</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	154		471.57	<.0001
<b>SEX</b>	1	154		1.30	0.2553
<b>UCPDGR1</b>	1	154		5.26	0.0231
<b>TRTP</b>	2	154		113.78	<.0001

**Least Squares Means**

<b>Effect</b>	<b>Treatment</b>	<b>Planned Estimate</b>	<b>Standard Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha</b>	<b>Lower</b>	<b>Upper</b>
<b>TRTP</b>	SA	4.1756	0.05450	154	76.61	<.0001	0.05	4.0679	4.2833
<b>TRTP</b>	THSm2.2	3.2190	0.03924	154	82.04	<.0001	0.05	3.1415	3.2966
<b>TRTP</b>	mCC	3.2436	0.05353	154	60.59	<.0001	0.05	3.1379	3.3494
<b>TRTP</b>	SA	4.1756	0.05450	154	76.61	<.0001	0.05	4.0679	4.2833
<b>TRTP</b>	THSm2.2	3.2190	0.03924	154	82.04	<.0001	0.05	3.1415	3.2966
<b>TRTP</b>	mCC	3.2436	0.05353	154	60.59	<.0001	0.05	3.1379	3.3494



Differences of Least Squares Means									
Planned		Planned		Standard					
Effect	Treatment	Treatment	Estimate	Error	DF t	Value	Pr >  t	Alpha	Lower Upper
TRTP	SA	mCC	0.9320	0.07615	154	12.24	<.0001	0.05	0.7816 1.0824
TRTP	THSm2.2	mCC	-0.02456	0.06607	154	-0.37	0.7106	0.05	-0.1551 0.1060
TRTP	THSm2.2	SA	-0.9565	0.06697	154	-14.28	<.0001	0.05	-1.0888 -0.8243
TRTP	mCC	SA	-0.9320	0.07615	154	-12.24	<.0001	0.05	-1.0824 -0.7816



**Listing 15.4.4.45.2.1 Analysis of CYP2A6 Activity (%) Excluding Assessments within 5 Half-Lives of a Concomitant Medication Affecting CYP2A6 Activity - FAS**

The where clause used on the dataset adam.ADBX: FASFL=Y and ANL02FL=Y and anl03fl=Y

Paramcd: CYP2A6, Day 90 Model: Mixed, Method: Log

**Model Information**

<b>Data Set</b>	WORK.ANADT_2
<b>Dependent Variable</b>	LOGAVAL
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Class Level Information**

<b>Class</b>	<b>LevelsValues</b>
<b>TRTP</b>	3SA THSm2.2 mCC
<b>SEX</b>	2F M
<b>UCPDGR1</b>	210-19 cig/day >19 cig/day

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	9
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	159

**Number of Observations**

<b>Number of Observations Read</b>	159
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**Number of Observations**

<b>Number of Observations Used</b>	159
<b>Number of Observations Not Used</b>	0

**Covariance****Parameter****Estimates****Cov Parm Estimate**

<b>Residual</b>	0.3388
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**Fit Statistics**

<b>-2 Res Log Likelihood</b>	291.9
<b>AIC (Smaller is Better)</b>	293.9
<b>AICC (Smaller is Better)</b>	293.9
<b>BIC (Smaller is Better)</b>	296.9

**Type 3 Tests of Fixed Effects****Num Den**

<b>Effect</b>	<b>DF</b>	<b>DF</b>	<b>F Value</b>	<b>Pr &gt; F</b>
<b>LOGBASE</b>	1	153	132.53	<.0001
<b>SEX</b>	1	153	0.42	0.5199
<b>UCPDGR1</b>	1	153	0.24	0.6271
<b>TRTP</b>	2	153	10.67	<.0001

**Least Squares Means**

<b>Planned</b>	<b>Standard</b>						
<b>Effect</b>	<b>Treatment</b>	<b>Estimate</b>	<b>Error</b>	<b>DF</b>	<b>t Value</b>	<b>Pr &gt;  t </b>	<b>Alpha Lower Upper</b>
<b>TRTP</b>	<b>SA</b>	3.6388	0.09219	153	39.47	<.0001	0.05 3.4567 3.8209
<b>TRTP</b>	<b>THSm2.2</b>	3.1417	0.06676	153	47.06	<.0001	0.05 3.0098 3.2736



		Least Squares Means						
Planned		Standard						
Effect	Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha	Lower Upper
TRTP	mCC	3.1582	0.09056	153	34.87	<.0001	0.05	2.9793 3.3371
TRTP	SA	3.6388	0.09219	153	39.47	<.0001	0.05	3.4567 3.8209
TRTP	THSm2.2	3.1417	0.06676	153	47.06	<.0001	0.05	3.0098 3.2736
TRTP	mCC	3.1582	0.09056	153	34.87	<.0001	0.05	2.9793 3.3371

		Differences of Least Squares Means						
Planned		Standard						
Effect	Treatment	Planned Treatment	Estimate	Error	DF	t Value	Pr >  t	Alpha Lower Upper
TRTP	SA	mCC	0.4806	0.1288	153	3.73	0.0003	0.05 0.2262 0.7351
TRTP	THSm2.2	mCC	-0.01646	0.1120	153	-0.15	0.8834	0.05 -0.2378 0.2049
TRTP	THSm2.2	SA	-0.4971	0.1135	153	-4.38	<.0001	0.05 -0.7213 -0.2728
TRTP	mCC	SA	-0.4806	0.1288	153	-3.73	0.0003	0.05 -0.7351 -0.2262