

/*=====*

| Covance Study Number : COV- 106343 |

| Client Protocol ID : ZRHM-REXA-08-US |

| Program Name : t_anlrisk.sas |

| Purpose : Table Analysis of risk markers |

| Input Data : ADBX ADSL |

| Output Data : T_15_02_04_25_01, 25_02 |

| |

| Macros Called : |

| |

| Originally Performed by : Seroan Zheng |

| Date/Time billed : 05May2015 |

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| Modification History |

| |

| Programmer : Serona Zheng |

| Date : 28May2015 |

| Reason for Change : Add parameter BASO,EOS,MONO,NEUT,LYM |

| |

| Programmer : Serona Zheng |

| Date : 01Jun2015 |

| Reason for Change : 1. Update GLM model to lsmeans trtpn / pdiff alpha=0.05 cl|

| 2. Remove P-value |

| |

Programmer	: Serona Zheng
Date	: 08Sep2015
Reason for Change	: Change footnote
Programmer	: Serona Zheng
Date	: 14Sep2015
Reason for Change	: Added base ne . and UCPDGR1 ne " condition to select analysis subjects based on client comments
Programmer	: Serona Zheng
Date	: 10Mar2016
Reason for Change	: 1. Add ApoB and ApoA1 into output
	2. Change footnote "Appendix: 15.3.6.9" to "Appendix: 15.3.6.12 " for Weight and Body Waist

+=====*/

```
options noquotelenmax symbolgen;
```

```
***Create log file;
```

```
proc printto new
```

```
log="/cvn/projects/prj/development/000000106343/dev/tables/log/t_anlrisk.log" ;
```

```
run;
```

```
%macro t_anlrisk(t_name=,t_pop1=,t_pop2=,t_pop3=,t_pop4=,t_title=,t_title_l=,l_name=);
```

```
%let pgnam=t_anlrisk.sas;
```

```
%let table=&tflout.;
```

```
%let tflno=&t_name;
```

```
%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str(/));
```

```
data _null_;

    tmp("&TFL_Part";

        if tmp not in ("dev" "qc") then call symput("TFL_Part", "prod");

        call symput('TFLpath', compress("&_SASPROGRAMFILE", ""));

run;
```

***Get data from ADBX;

```
proc sort data=adam.adbx out=adbx(keep=usubjid ppro: aval base chg ablfl anl: avisit avisitn par: trt:
sex ucpgdr1);
```

```
    where ((&t_pop1 = 'Y' and avisitn = 105) or (&t_pop2 = 'Y' and avisitn = 130) or (&t_pop3 = 'Y'
and avisitn = 160) or (&t_pop4 = 'Y' and avisitn in (190 191)))
```

```
        and anl02fl = 'Y' and upcase(parcat2) = 'RISK MARKERS' and paramcd in ( 'UPGF2CRE'
'UTXB2CRE' ) and base ne . and UCPDGR1 ne ";
```

```
    by usubjid paramn param;
```

```
run;
```

***Get data from ADLB;

```
proc sort data=adam.adlb out=adlb(keep=usubjid ppro: aval base chg ablfl anl: avisit avisitn par: trt: sexc
ucpgdr1);
```

```
    where anl01fl = 'Y' and upcase(parcat3) = 'RISK MARKERS' and base ne . and UCPDGR1 ne " and
```

```
        ((paramcd in ('HOMOCY' 'CRP' 'GLUC' 'FIBRINO' 'HDL' 'LDL' 'CHOL' 'TRIG') and ((&t_pop2
= 'Y' and avisitn = 130) or (&t_pop3 = 'Y' and avisitn = 160) or (&t_pop4 = 'Y' and avisitn in (190 191))))
```

```
        or (paramcd in ('HBA1C' 'APOA1' 'APOB') and avisitn in (191 190) and &t_pop4 = 'Y')
```

```
        or (paramcd in ('ICAM1' 'WBC' 'PLAT' 'BASO' 'EOS' 'MONO' 'NEUT' 'LYM') and ((&t_pop1
= 'Y' and avisitn = 106) or (&t_pop2 = 'Y' and avisitn = 130) or (&t_pop3 = 'Y' and avisitn = 160) or
(&t_pop4 = 'Y' and avisitn in (190 191)))));
```

```
    by usubjid paramn param;
```

```
run;
```

```
***Get data from ADVS;
```

```
proc sort data=adam.advs out=advs(keep=usubjid ppro: aval base chg ablf anl: avisit avisitn par: trt:
sex ucpgdr1 avalu);
```

```
    where anl01fl = 'Y' and upcase(parcat1) = 'RISK MARKERS' and base ne . and UCPDGR1 ne "
```

```
        and ((paramcd in ('DIABP' 'SYSBP') and ((&t_pop1 = 'Y' and avisitn = 106) or (&t_pop2 =
'Y' and avisitn = 130) or (&t_pop3 = 'Y' and avisitn = 160) or (&t_pop4 = 'Y' and avisitn in (190 191)))) or
(paramcd in ('WEIGHT' 'WSTCIR') and avisitn in (191 190) and &t_pop4 = 'Y'));
```

```
    by usubjid paramn param;
```

```
run;
```

```
data advs;
```

```
    set advs;
```

```
    param = strip(param)||'('||strip(avalu)||')";
```

```
data anl_all;
```

```
    length param $100;
```

```
    set adlb(drop=parcat3 parcat1 parcat2 rename=(param=param1) in=a) adbx(drop= parcat2
parcat1 rename=(param=param2) in=b) advs(drop= parcat1 rename=(param=param3) in=c);
```

```
    by usubjid paramn;
```

```
    if a then do;
```

```
        param = param1;
```

```
        paramn = paramn+2000;
```

```
    end;
```

```
    if b then do;
```

```
        param = param2;
```

```
        paramn = paramn + 3000;

    end;

    if c then do;

        param = param3;

        paramn = paramn + 1000;

    end;

    if trtp = 'SA' then trtpn = 3;

    else if trtp = 'THSm2.2' then trtpn = 1;

    else if trtp = 'mCC' then trtpn = 2;
```

```
run;
```

```
***Get decimal length;
```

```
data temp;
```

```
    set anl_all;
```

```
    declen=lengthn(scan(strip(put(aval, best.)),2,"."));
```

```
run;
```

```
proc sql;
```

```
    create table dectemp
```

```
    as select distinct paramcd, max(declen) as declen
```

```
    from temp
```

```
    group by paramcd;
```

```
quit;
```

```

***Calculate LOG;

data anl_all_log anl_all_nlog anl_all_t missing;

    set anl_all;

    if paramcd in ( 'UPGF2CRE' 'UTXB2CRE' 'ICAM1') then do;

        if aval not in (.,0) then do;

            logaval=log(aval);

                if base not in (.,0) then logbase=log(base);

            output anl_all_log;

                end;

            else output missing;

        end;

        else if paramcd in ('DIABP' 'SYSBP' 'HDL' 'LDL' 'CHOL' 'TRIG' 'WBC' 'WEIGHT' 'WSTCIR' 'HBA1C'
'BASO' 'EOS' 'MONO' 'NEUT' 'LYM') then output anl_all_nlog;

        else output anl_all_t;

run;

***Shapiro-Wilks test Non-normal mean for anl_all_t;

proc sql;

    create table SWT as

        select usubjid,paramcd,aval from adam.adlb

        where ablfl = 'Y' and fasfl = 'Y' and paramcd in (select distinct paramcd from anl_all_t)

        order by paramcd;

quit;

***Create model result to lst file;

```

```

ods rtf

file="/cvn/projects/prj/data/000000106343/TFL/dev/Tables/&l_name..rtf" ;

run;

title1 "&t_title_l";

title2 "Shapiro-Wilk test";

proc univariate data=swt NORMALTEST;

    by paramcd;

    var aval;

    ods output TestsForNormality = test;

run;

data test;

    set test(where=(test = 'Shapiro-Wilk'));

    if pvalue <= 0.05 then log_f='Y';

    keep paramcd log_f;

run;

proc sort data=anl_all_t;by paramcd;run;

data anl_all_t_l anl_all_t_n;

    merge anl_all_t(in=a) test;

    by paramcd;

    if log_f = 'Y' and aval not in (.,0) then do;

logaval=log(aval);

        if base not in (.,0) then logbase=log(base);

```

```

        output anl_all_t_l;

    end;

    else if log_f ne 'Y' then output anl_all_t_n;

run;


data anl_all_log;

    set anl_all_log anl_all_t_l;

run;

proc sort data=anl_all_log;by paramcd avisitn;run;


data anl_all_nlog;

    set anl_all_nlog anl_all_t_n;

run;

proc sort data=anl_all_nlog;by paramcd avisitn;run;


***Calculate STAT;

%macro glm_nco(dsin=,conf=,var=,base=,dsout=,dsoutf=);

data anal;

    set &dsin;

    &conf

run;


proc sort data=anal;by paramcd avisitn avisit;run;

options byline;

```



```

proc glm data=anal;

    class trtpn sexc UCPDGR1;

    by paramcd avisitn avisit;

    model &var = &base sexc UCPDGR1 trtpn;

    lsmeans trtpn / pdiff alpha=0.05 cl;

    ods output LSMeanCL=LSMeanCL (keep=avisitn avisit paramcd trtpn lowercl uppercl lsmean);
*lsmean, C.I.;

    ods output LSMeanDiffCL=LSMeanDiffCL (where=(trtpn=1) keep=avisitn avisit paramcd trtpn
_trtpn lowercl uppercl difference); *lsmean and C.I. for ratios;

    ods output FitStatistics=ROOTMSE (keep=avisitn avisit paramcd rootmse); *RootMSE;

run;


*lsmean and C.I. for ratios;

data lsm_cl;

    merge LSMeanDiffCL(in=a) rootmse;

    by paramcd avisitn avisit;

    if a;

run;


data LSM_CL; *(drop=difference LowerCL UpperCL L_CI U_CI);

    length out stat $200;

    merge lsm_cl(in=a) dectemp;

    by paramcd;

    if a;

***ordering columns of treatments*;

    if _trtpn=2 then colord=4;

```

```

else if _trtpn=3 then colord=5;

%if &var=logaval %then %do;

    estimatee=exp(difference);

    lowere=exp(LowerCL);

    uppere=exp(UpperCL);

ord=3;

stat='95% CI';

    out=compress(put(floor(100*lowere*100)/100,12.2))||',
' || compress(put(ceil(100*uppere*100)/100,12.2));

    output;

%end;

%else %do;

    estimatee=difference;

    lowere=LowerCL;

    uppere=UpperCL;

ord=3;

stat='95% CI';

    if declen = 0 then out=compress(put(floor(10*lowere)/10,12.1))||',
' || compress(put(ceil(10*uppere)/10,12.1));

    else if declen >= 1 then out=compress(put(floor(100*lowere)/100,12.2))||',
' || compress(put(ceil(100*uppere)/100,12.2));

    output;

%end;

%if &var=logaval %then %do;

```

```

MSE=(rootmse)**2;

CV_=100*sqrt(exp(MSE)-1);

cv = put(ceil(CV_*100)/100,12.2);

ord=2;

stat='Geometric LS Mean (CV%)';

out=compress(put(round(100*estimatee,0.01),12.2))||' ('||COMPRESS(cv)||)';

output;

%end;

%else %do;

ord=2;

stat='Geometric LS Mean (CV%)';

if declen = 0 then out=compress(put(round(estimatee,0.1),12.1));

else if declen >= 1 then out=compress(put(round(estimatee,0.01),12.2));

output;

%end;

run;

*lsmean, C.I.;

proc sort data=lsmeanc1 out=lsmeanc11 nodupkey; by paramcd avisitn avisit trtpn lowercl uppercl
lsmean; run;

data lsm_ci; *(drop=LowerCL UpperCL);

length out stat $200;

merge LSMeanCL1(in=a rename=(trtpn=trtpn1)) dectemp;

by paramcd;

if a;

trtpn = input(trtpn1,best.);

```

```
***ordering columns of treatments*;
```

```
    if trtpn=1 then colord=1;
```

```
    else if trtpn=2 then colord=2;
```

```
    else if trtpn=3 then colord=3;
```

```
%if &var=logaval %then %do;
```

```
    estimatee=exp(lsmear);
```

```
    lowere=exp(LowerCL);
```

```
    uppere=exp(UpperCL);
```

```
%end;
```

```
%else %do;
```

```
    estimatee=lsmear;
```

```
    lowere=LowerCL;
```

```
    uppere=UpperCL;
```

```
%end;
```

```
***Gmean (CV%) row*;
```

```
ord=2;
```

```
stat='Geometric LS Mean (CV%)'; /* 1) APH 03NOV2014 */
```

```
    if declen = 0 then out=compress(put(round(estimatee,0.1),12.1));
```

```
    else if declen >= 1 then out=compress(put(round(estimatee,0.01),12.2));
```

```
output;
```

```
ord=3;
```

```
stat='95% CI';
```

```

        if declen = 0 then out=compress(put(floor(10*lowere)/10,12.1)||',
'|compress(put(ceil(10*uppere)/10,12.1)));

        else if declen >= 1 then out=compress(put(floor(100*lowere)/100,12.2)||',
'|compress(put(ceil(100*uppere)/100,12.2)));

        output;

run;

```

```

***Calculate N;

proc univariate data=anal noprint;

    by paramcd avisitn avisit;

    class trtpn;

    var &var;

    output out=num1 n=n1;

run;

```

```

data num1;

    set num1;

run;

data num1;

    merge num1(in=a) dectemp;

    by paramcd;

    if a;

***ordering columns of treatments*;

    if trtpn=1 then colord=1;

    else if trtpn=2 then colord=2;

    else if trtpn=3 then colord=3;

```

```

ord=1;

stat='n';

out=compress(put(n1,best.));

run;


data tabout;

    set lsm_cl lsm_ci /*pval1*/ num1;

    by paramcd avisitn avisit;

run;


proc sort data=tabout; by paramcd ord stat avisitn avisit;


data &dsoutf;

    set tabout;

run;


proc transpose data=tabout out=&dsout.(drop=_NAME_) prefix=col;

    by paramcd ord stat avisitn avisit;

    id colord;

    var out;

run;


%mend;

```

```
title2 "GLM model";
```

```
%glm_nco(dsin=anl_all_log,conf=,var=logaval,base=logbase,dsout=tabout_log,dsoutf=tabout_log_f);
```

```
%glm_nco(dsin=anl_all_nlog,conf=,var=aval,base=base,dsout=tabout_nlog,dsoutf=tabout_nlog_f);
```

```
ods rtf close;
```

```
proc sort data=anl_all out=temp_p(keep=paramcd param paramn) nodupkey;by paramcd param;run;
```

```
proc format;
```

```
value trt
```

```
1='THSm2.2'
```

```
2='mCC'
```

```
3='SA'
```

```
;
```

```
run;
```

```
%if &t_name=T_15_02_04_25_01 %then %do;
```

```
    ***output for figure;
```

```
    data tflds.&tflno._f;
```

```
        length trtp $40 _trtp $40;
```

```
        set tabout_log_f(in=a) tabout_nlog_f(in=b);
```

```
        if a then logf = 1;
```

```
        if b then logf = 0;
```

```
        if a then do;
```

```

        trtp = put(trtpn,trt.);

        _trtp = put(_trtpn,trt.);

        if lowere ne . then lclm = lowere*100;

        if uppere ne . then uclm = uppere*100;

        if estimatee ne . then diff = estimatee*100;

        if difference ne . then difftyp = strip(trtp) || "vs." || strip(_trtp);

    end;

    if b then do;

        trtp = put(trtpn,trt.);

        _trtp = put(_trtpn,trt.);

        if lowere ne . then lclm = lowere;

        if uppere ne . then uclm = uppere;

        if estimatee ne . then diff = estimatee;

        if difference ne . then difftyp = strip(trtp) || "vs." || strip(_trtp);

    end;

    keep paramcd avisitn avisit lclm uclm difftyp diff logf trtp _trtp;

run;

proc sort data=tflds.&tflno._f;by paramcd avisitn;run;

data tflds.&tflno._f;

    merge tflds.&tflno._f(in=a) temp_p;

    by paramcd;

    if a;

    avisit=propcase(avisit);

    if difftyp ne "";

run;

```



```
proc sort data=tflds.&tflno._f nodupkey;by logf paramn paramcd avisitn difftyp;run;  
%end;
```

```
data final1;  
    set tabout_log(in=a) tabout_nlog(in=b);  
    if a then logf = 1;  
    if b then logf = 0;  
    if b then do;  
        if stat = "Geometric LS Mean (CV%)" then stat = "LS Mean";  
        else if stat = "" then stat = "";  
        else stat = stat;  
    end;  
run;
```

```
proc sort data=final1;by logf paramcd avisitn ord ;run;
```

```
proc sort data=final1;by paramcd;run;
```

```
data final2;  
    merge final1(in=a) temp_p;  
    by paramcd;  
/*    if not first.paramcd then param = avisit;*/  
run;
```

```
proc sort data=final2;by logf paramn avisitn ord;run;
```

```
data final3;

    set final2;

    by logf paramn avisitn ord;

    if first.paramn then do; sum = 0; group + 1; end;

    sum +1;

    if sum > 9 then do;

        group +1;

        sum = 0;

    end;

    page = group;

run;

proc sort data=final3;by page logf paramcd avisitn ord;run;
```

```
data final4;

    set final3;

    by page logf paramcd avisitn ord;

    if first.page then output;

    output;

run;
```

```
data final;

    set final4;

    by page logf paramcd avisitn ord;

    if first.page then do;

        call missing(stat,col1,col2,col3,col4,col5,avisitn);

        id = 1;
```

```

end;

else do;

    id = 2;

    param = propcase(avisit);

end;

avisit = propcase(avisit);

run;

data _null_;

    set final;

    by logf paramn;

    if last.paramn then call symput('tpage',strip(put(page,3.)));

    if first.logf then call symput('tpage' || strip(put(logf,best.)),strip(put(page,3.)));

run;

%put &tpage &tpage0 &tpage1;

proc sql;

    select compress(put(count(distinct page),best.)) into :cnt from final;

    select distinct page, paramn, paramcd into :page1-:page&cnt,:paramn1-:paramn&cnt,
:paramcd1-:paramcd&cnt from final;

quit;

data tflds.&tflno.;

    set final;

/*    drop ord avisitn paramn paramcd page id;*/

run;

```

```
options number nodate mprint mlogic orientation=landscape /* papersize=&p_pgsz */ missing=' ';
```

```
ods escapechar='$';
```

```
%let linetop = \brdrt\brdrs\brdrw30; * needs to be 1.5pt so calculated in twips (1/20 pt) ;
```

```
%let linebot = \brdrb\brdrs\brdrw30;
```

```
ods path stdlib.t106331 (read) ;
```

```
ods results off;
```

```
ods rtf toc_data file="/cvn/projects/prj/data/000000106343/TFL/dev/Tables/&tflno..rtf" style=t106331  
startpage=yes headery=1440 footery=1440 ;
```

```
ods noproctitle;
```

```
%do i=1 %to &tpage;
```

```
%put &&paramn&i;
```

```
title ;
```

```
footnote;
```

```
%let wd=0;
```

```
ods proclabel=' ';
```

```
data comp;
```

```
set final end=eof;
```

```
where page=&i;
```

```
_firtitl="&t_title";
```

```

        call symput('_FSRTITL', trim(left(_firtitl)));

drop _firtitl ;

run;

ods listing close;

* most set up in template others below;

* title arial 12pt bold with 12pt paragraph space below;

* all headers to be arial 11pt bold;

* data arial 10pt;

* headers to be central, text values left aligned and numeric centered around decimal point;

proc report data = comp missing headline headskip missing nowd split = '$' %if &i=1 %then %do;
contents=' ' %end; %else %do; contents="" %end;; ;

        column page paramn id avisitn param  ord stat col1 col2 col3 col4 col5;

define page      / order order=internal noprint;

define paramn    / order order = internal noprint;

define avisitn   / order order = internal noprint;

define ord       / order order=internal noprint;

define id        / order order=internal noprint;

define param     / order style={just=left cellwidth=3cm} style(header)={just=left} "Variable" id;

define stat      / display style={just=left cellwidth=3.5cm} style(header)={just=left} "Statistic";

define col1      / display style={just=c cellwidth=2cm} style(header)={just=center} "THSm2.2";

define col2      / display style={just=c cellwidth=2cm} style(header)={just=center} "mCC";

define col3      / display style={just=c cellwidth=2cm} style(header)={just=center} "SA";

```

```

%if &i < &tpage1 %then %do;

    define col4      / display style={just=c cellwidth=2.5cm} style(header)={just=center} "THSm2.2 -
mCC Difference";

    define col5      / display style={just=c cellwidth=2.5cm} style(header)={just=center} "THSm2.2 - SA
Difference";

%end;

%else %do;

    define col4      / display style={just=c cellwidth=2.7cm} style(header)={just=center} "THSm2.2 : mCC
$Ratio (%)";

    define col5      / display style={just=c cellwidth=2.7cm} style(header)={just=center} "THSm2.2 : SA
$Ratio (%)";

%end;

break after page / page;

compute after avisitn;

    line " ";

endcomp;

compute before page / style={protectspecialchars=off};

    line "&linetop";

endcomp;

compute before _page_ / style={just=left protectspecialchars=off};

    line "\b\fs24\sa24&_FSRTITL." ; * \b = bold, \fs24 is font size 12pt, \sa24 is space after 12pt;

    line "&linebot";

```

```

endcomp;

%if &i < &tpage1 %then %do;

compute after _page_/ style={just=left protectspecialchars=off pretext="&linetop."};

line 'Note: Adjusted least squares (LS) means and confidence intervals (CIs) from an
ANCOVA model conducted with baseline value, study arm, sex and mCC consumption reported at
screening as fixed effect factors.';

line 'Note: mCC = Menthol conventional cigarettes; SA = Smoking abstinence; THSm2.2 =
Tobacco Heating System 2.2 Menthol.';

line ' ';

%end;

%else %do;

compute after _page_/ style={just=left protectspecialchars=off pretext="&linetop."};

line "Note: Adjusted geometric least squares (LS) means and confidence intervals (CIs)
from an ANCOVA model conducted on log-transformed values with log-transformed baseline value,
study arm, sex and mCC consumption reported at screening as fixed effect factors. Geometrical CV% of
the ratio is estimated from the residual mean squares.";

line 'Note: mCC = Menthol conventional cigarettes; SA = Smoking abstinence; THSm2.2 =
Tobacco Heating System 2.2 Menthol.';

line ' ';

%end;

%if (1000 <= &&paramn&i) and (&&paramn&i < 2000) %then %do;

%if &&paramn&i = 1015 or &&paramn&i = 1026 %then %do;

line 'Appendix 15.3.6.12';

line "Study ID: ZRHM-REXA-08-US" " " "Program: &pgname" " " "Status:
&status" " " "&sysdate" " " "(Page &i of &tpage)";

endcomp;

%end;

%else %do;

line 'Appendix 15.3.6.9';

```

```

                                line "Study ID: ZRHM-REXA-08-US" " " "Program: &pgname" " " "Status:
&status" "                                "&sysdate" "                                "(Page &i of &tpage)";

                                endcomp;

                                %end;

                                %end;

                                %else %if (2000 <= &&paramn&i) and (&&paramn&i < 3000) %then %do;

                                %if (2104 <= &&paramn&i) and (&&paramn&i <= 2115) %then %do;

                                line 'Appendix 15.3.6.7';

                                line "Study ID: ZRHM-REXA-08-US" " " "Program: &pgname" " " "Status:
&status" "                                "&sysdate" "                                "(Page &i of &tpage)";

                                endcomp;

                                %end;

                                %else %if &&paramn&i = 2027 or &&paramn&i = 2028 %then %do;

                                line 'Appendix 15.3.3.2';

                                line "Study ID: ZRHM-REXA-08-US" " " "Program: &pgname" " " "Status:
&status" "                                "&sysdate" "                                "(Page &i of &tpage)";

                                endcomp;

                                %end;

                                %else %do;

                                line 'Appendix 15.3.6.6';

                                line "Study ID: ZRHM-REXA-08-US" " " "Program: &pgname" " " "Status:
&status" "                                "&sysdate" "                                "(Page &i of &tpage)";

                                endcomp;

                                %end;

                                %end;

                                %end;

```



```

%else %if (3000 <= &&paramn&i) and (&&paramn&i < 4000) %then %do;

    line 'Appendix 15.3.3.1';

    line "Study ID: ZRHM-REXA-08-US" " " "Program: &pgname" " " "Status: &status"
" " "&sysdate" " " "(Page &i of &tpage)";

    endcomp;

%end;

run;

%end;

ods rtf close;

ods results on;

ods path sashelp.tmplmst (read);

```

```

%mend;

```

```

***For table 15.2.4.25.1;

```

```

%t_anlrisk(    t_name=T_15_02_04_25_01,

               l_name=L_15_04_04_25_01,

               t_pop1=pprot1fl,t_pop2=pprot2fl,t_pop3=pprot3fl,t_pop4=pprot4fl,

               t_title=%str(Table 15.2.4.25.1 Analysis of Risk Markers - PP Set),

               t_title_l=%str(Listing 15.4.4.25.1 Analysis of Risk Markers - PP Set)

);

```

```

***For table 15.2.4.25.2;

```

```

%t_anlrisk(    t_name=T_15_02_04_25_02,

               l_name=L_15_04_04_25_02,

```

```
t_pop1=fasfl,t_pop2=fasfl,t_pop3=fasfl,t_pop4=fasfl,  
t_title=%str(Table 15.2.4.25.2 Analysis of Risk Markers - FAS),  
t_title_l=%str(Listing 15.4.4.25.2 Analysis of Risk Markers - FAS)
```

```
);
```

```
***Deletes all SAS files in the WORK library that are available for processing;
```

```
proc datasets library=work kill;
```

```
run;
```

```
options quotelenmax;
```

```
proc printto ;
```

```
run;
```

```
ods rtf close;
```

```
ods results on;
```

```
ods path sashelp.tmplmst (read);
```

```
***check the log, if there is any findings, please make sure to resolve;
```

```
%m_chklog(TFL_part=dev,pgm_type=tables,pgm_name=t_anlrisk,serv=dev,covstudyid=000000106343);
```