

```

*****
* Project      : ZRHM-REXA-08-US
*
* Program name  : T15020443_ZRHM-REXA-08_V1.sas
*
* Author       : L. Yan
*
* Date created  : 05/20/2015
*
* Purpose      : Table T1502044301
*
* Revision History :
*
* Date      Author   Ref   Revision (Date in YYYYMMDD format)
* 14Dec2015  N Lama      Change from difference to geomean the original Wu code
                        modified by Morgane so that it runs in PMI environment
*
*****
/* OUTPUT IN
\\Pmichlausas03\pass\ZRH\Unblinded Data - Team 2\ZRHM-REXA-07-JP\OUTPUT\Final
*/

%let root=F:\PASS\ZRH\Unblinded Data - Team 2;

%let study=ZRHM-REXA-08-US;

```

```
%let MPATH=ZRHM-REXA-07-JP\transfer-Wu\20150806 Wu\05Aug2015\macros;
```

```
%let SDTMP=&root.\&study.\data\sdtm;
```

```
%let ADAMP=&root.\&study.\data\adam;
```

```
%let opath=&root.\&study.\output\final;
```

```
%let odata=&root.\&study.\output\data;
```

```
%let csvdata=&root.\&study.\output\excel;
```

```
libname sdtm "&root.\&study\data\sdtm";
```

```
libname adam "&root.\&study\data\adam";
```

```
libname odata "&root.\&study\output\data";
```

```
*** pre-setting ***;
```

```
options missing=' ' nocenter ls=132 ps=45
```

```
formchar='|_---|+|----+|-/\<>*' charcode nodate nonumber;
```

```
run;
```

```
options nofmterr;
```

```
options papersize=letter orientation=landscape nodate nonumber center missing="" nobyline;
```

```
%global fdate;
```

```
options nofmterr;
```

```
data _null_;
```

```
call symput("fdate",left(put("&sysdate"d, date9.)));  
run;
```

```
options sasautos=("F:\PASS\ZRH\Unblinded Data - Team 2\ZRHM-REXA-07-JP\transfer-Wu\20150806  
Wu\05Aug2015\macros" sasautos) notes;*/
```

```
*%init(delivery=1);
```

```
*%init(delivery=9);
```

```
%let prgname=T15020443_ZRHM_REXA_07_JP_V1;
```

```
%include "F:\PASS\ZRH\Unblinded Data - Team 2\POOLING\titlecsv.sas";
```

```
%titlecsv(prgname=&prgname., version=1.1);
```

```
%put &title1;
```

```
%put &title2;
```

```
%put &APPENDIX;
```

```
%put &endpoint;
```

```
%put &outname.;
```

```
%let title1=Table 15.2.4.43.1; /* Hardcoding NL 14DEC2015 */
```

```
options missing="";
```

```
%macro cal_summary_pvalue(where=, outnum=, method=, used=, var=, in=, pflg=, paramcd=, avisit=);
```

```
title2 h=10pt j=l "&used";
```

```
proc sort data=&in. out=anadt_&outnum.;
```

```
by usubjid;
```

```
where &where. ;
```

```
run;
```

```
proc sort data=anadt_&outnum.;
```

```
by trtcd;
```

```
run;
```

```
%if &method = 1 %then %do;
```

```
title3 h=10pt j=l "Paramcd: &paramcd, &avisit. Model: Mixed, Method: Log";
```

```
proc means data = anadt_&outnum. noprint;
```

```
by trtcd;
```

```
var &var.;
```

```
output out=xlab_&outnum. n=n mean=mean median=med std=sd min=min max=max q1=q1 q3=q3  
lclm=lclm uclm=uclm;
```

```

run;

%end;

%if &method = 2 %then %do;

title3 h=10pt j=l "Paramcd: &paramcd, &avisit. Model: Mixed, Method: Normal";

proc means data = anadt_&outnum. noprint;

by trtcd;

var aval;

output out=xlab_&outnum. n=n mean=mean median=med std=sd min=min max=max q1=q1 q3=q3
lclm=lclm uclm=uclm;

run;

%end;

data xlab_&outnum.;

set xlab_&outnum.;

n1 = trim(left(compress(put(n, 8.))));

if sd > . then mean1 = (trim(left(compress(put(mean, 8.1)))) || ' (
'| trim(left(compress(put(ceil(sd*100)/100, 8.2)))) || ');

else mean1 = (trim(left(compress(put(mean, 8.1)))) || ' (NA)';

ci1=trim(left(compress(put(floor(lclm*100)/100, 8.2)))) || ',
'| trim(left(compress(put(ceil(uclm*100)/100, 8.2))));

median1 = trim(left(compress(put(med, 8.1))));

q1q3 = trim(left(compress(put(q1, 8.2)))) || ', ' || trim(left(compress(put(q3, 8.2))));

min1 = trim(left(compress(put(min, 8.)))) || ', ' || trim(left(compress(put(max, 8.0))));

run;

```

```
/*
```

```
proc mixed data=anadt_&outnum.;
```

```
Class trtcd sex UCPDGR1;
```

```
Model logaval = logbase sex UCPDGR1 trtcd / outp=pred;
```

```
lsmeans trtcd / pdiff =control('mCC') alpha=0.05 cl;
```

```
ods output lsmeans=lsmeans_&outnum. (keep=trtcd lower upper estimate); *each arm;
```

```
ods output diffs=LSMeanDiffCL&outnum. (keep=trtcd lower upper probt estimate); * lsmean and C.I. for ratios;
```

```
ods output covparms=ROOTMSE&outnum.(rename=(estimate=mse)); *MSE;
```

```
run;
```

```
*/
```

```
proc mixed data=anadt_&outnum.;
```

```
class trtp sex UCPDGR1;
```

```

%if &method = 1 %then %do;

model logaval = logbase sex UCPDGR1 trtp/ outp=pred;

%end;

%if &method = 2 %then %do;

model aval = base sex UCPDGR1 trtp/ outp=pred;

%end;

lsmeans trtp / pdiff =control('mCC') alpha=0.05 cl;

*lsmeans trtp / pdiff =control('SA') alpha=0.05 cl;

ods output lsmeans=lsmeans_&outnum. (keep=trtp lower upper estimate); *each arm;

ods output diffs=LSMeanDiffCL&outnum. (keep=_trtp trtp lower upper probt estimate
where=(TRTP="THSm2.2")); * lsmean and C.I. for ratios;

ods output covparms=estimate&outnum.(rename=(estimate=rootmse)); *MSE;

run;

ods output close;


data pval&outnum.;

set LSMeanDiffCL&outnum.;

ProbtDiff=probt;

keep trtp ProbtDiff;

run;


data lsmeans_&outnum.;

set lsmeans_&outnum.;

lowercl=lower;

uppercl=upper;

lsmean=estimate;

```

```
keep trtp lowercl uppercl lsmean;
```

```
run;
```

```
data LSMeanDiffCL&outnum.;
```

```
set LSMeanDiffCL&outnum.;
```

```
lowercl=lower;
```

```
uppercl=upper;
```

```
difference=estimate;
```

```
keep trtp _trtp lowercl uppercl difference;
```

```
run;
```

```
data lsmeans_&outnum.;
```

```
set lsmeans_&outnum.;
```

```
if TRTP="THSm2.2" then trtcd=1;
```

```
else if TRTP="mCC" then trtcd=2;
```

```
else if TRTP="SA" then trtcd=3;
```

```
%if &method = 1 %then %do;
```

```
    Estimate1 = exp(lsmean); /* Ratio of geometric mean */
```

```
    LowerCL   = exp(lowercl); /* 95% CI lower bound */
```

```
    UpperCL   = exp(uppercl); /* 95% CI upper bound */
```

```
%end;
```

```
%if &method = 2 %then %do;
```

```
    Estimate1 = lsmean; /* Ratio of geometric mean */
```

```
    LowerCL   = lowercl; /* 95% CI lower bound */
```



```
UpperCL = uppercl; /* 95% CI upper bound */  
%end;
```

```
run;
```

```
data ROOTMSE&outnum.;  
set estimate&outnum.;  
*CVperc=100*sqrt(exp(rootmse**2)-1);  
cvperc=100*sqrt(exp(rootmse)-1);  
run;
```

```
proc sort data=lsmeans_&outnum. nodupkey;  
by trtcd;  
run;
```

```
data lsmeans_&outnum.;  
length geomean geoci $100;  
set lsmeans_&outnum.;  
geomean=strip(put(ESTIMATE1, 8.2));  
geoci=strip(put(floor(LowerCL*100)/100, 8.2))||", "||strip(put(ceil(UpperCL*100)/100, 8.2));  
  
keep trtcd geomean geoci;  
run;
```

```
proc sort data=LSMeanDiffCL&outnum. nodup;  
by TRTP _TRTP;  
run;
```

```
data LSMeanDiffCL&outnum.;  
set LSMeanDiffCL&outnum.;  
myord=1;  
run;
```

```
data ROOTMSE&outnum.;  
set ROOTMSE&outnum.;  
myord=1;  
run;
```

```
data LSMeanDiffCL&outnum.;  
merge LSMeanDiffCL&outnum. ROOTMSE&outnum.;  
by myord;  
run;
```

```
data LSMeanDiffCL&outnum.;  
length geomean geoci $100;  
set LSMeanDiffCL&outnum.;  
if _TRTP eq "mCC" then trtcd=4;  
if _TRTP eq "SA" then trtcd=5;
```

```
%if &method = 1 %then %do;
```

```
difference = 100*exp(difference); /* Ratio of geometric mean */
```

```
lowercl = 100*exp(lowercl); /* 95% CI lower bound */
```

```
uppercl = 100*exp(uppercl); /* 95% CI upper bound */
```

```
%end;
```

```
%if &method = 2 %then %do;
```

```
difference =difference; /* Ratio of geometric mean */
```

```
lowercl = lowercl; /* 95% CI lower bound */
```

```
uppercl = uppercl; /* 95% CI upper bound */
```

```
%end;
```

```
%if &method = 1 %then %do;
```

```
geomean=strip(put(round(difference, 0.01), 8.2))||" ("||strip(put(ceil(CVperc*100)/100, 8.2)) ||")";
```

```
%end;
```

```
%if &method = 2 %then %do;
```

```
geomean=strip(put(round(difference, 0.01), 8.2))/" ("||strip(put(CVperc, 8.1)) ||")"/;
```

```
%end;
```

```
geoci=strip(put(floor(lowercl*100)/100, 8.2))||", "||strip(put(ceil(uppercl*100)/100, 8.2));
```

```
keep trtcd geomean geoci difference;
```

```
run;
```

```
data pval&outnum.;
```

```
set pval&outnum.;
```

```
if _n_=1;
```

```
trtcd=4;
```

```
keep trtcd ProbtDiff;
```

```
format ProbtDiff PVALUE6.3;
```

```
run;
```

```
proc sort data=LSMeanDiffCL&outnum.;
```

```
by trtcd;
```

```
run;
```

```
data LSMeanDiffCL&outnum.;
```

```
merge LSMeanDiffCL&outnum. pval&outnum.;
```

```
by trtcd;
```

```
run;
```

```
data LSMeanDiffCL&outnum.;
```

```
set LSMeanDiffCL&outnum.;
```

```
%if &method = 1 %then %do;
```

```
if (difference < 100) then ProbtDiff=ProbtDiff/2;
```

```
else ProbtDiff=1-ProbtDiff/2;
```

```
%end;
```

```
%if &method = 2 %then %do;
```

```

if (difference < 0) then ProbtDiff=ProbtDiff/2;

else ProbtDiff=1-ProbtDiff/2;

%end;

run;


data mrep_&outnum.;

set lsmeans_&outnum. LSMeanDiffCL&outnum.;

run;


proc sort data=mrep_&outnum.;

by trtcd;

run;


proc sort data=xlab_&outnum.;

by trtcd;

run;


data xlab_&outnum.;

merge xlab_&outnum.(in=a) mrep_&outnum.;

by trtcd;

run;


data xlab_&outnum.;

set xlab_&outnum.;

if geoci ne "";

```

```
run;
```

```
proc transpose data = xlab_&outnum. out=xlab_1_&outnum.;
```

```
id trtcd;
```

```
var n1 geomean geoci ProbtDiff;
```

```
run;
```

```
data rep_&outnum.;
```

```
length _name__1_2 ord1 $100;
```

```
set xlab_1_&outnum.;
```

```
ord1="&outnum";
```

```
ordnum=input(ord1, best.);
```

```
if upcase(_name_)="N1" then do; _name_="n"; sord=0; end;
```

```
%if &method = 1 %then %do;
```

```
if upcase(_name_)="GEOMEAN" then do; _name_="Geometric LS Mean (CV%)"; sord=1; end;
```

```
if upcase(_name_)="GEOCI" then do; _name_="95% CI"; sord=2; end; /* NL 14Dec2015 */
```

```
if upcase(_name_)="CI1" then do; _name_="95% CI of Mean"; sord=4; end;
```

```
%end;
```

```
%if &method = 2 %then %do;
```

```
if upcase(_name_)="GEOMEAN" then do; _name_="LS Mean"; sord=1; end;
```

```
if upcase(_name_)="GEOCI" then do; _name_="95% CI"; sord=2; end;
```

```
if upcase(_name_)="CI1" then do; _name_="95% CI"; sord=4; end;
```

```
%end;
```

```
if upcase(_name_)="MEAN1" then do; _name_="Mean (SD)"; sord=3; end;
```

```
if upcase(_name_)="MEDIAN1" then do; _name_="Median"; sord=5; end;  
if upcase(_name_)="Q1Q3" then do; _name_="Q25, Q75"; sord=6; end;  
if upcase(_name_)="MIN1" then do; _name_="Min, Max"; sord=7; end;  
if upcase(_name_)="PROBTDIFF" then do; _name_="p-value (one-sided)"; sord=9; end;  
run;
```

```
data rep;  
  
set rep rep_&outnum.;  
  
run;
```

```
%mend;
```

```
%macro mainloop(where1=, outn=, where=);
```

```
proc sort data=adam.adsl out=trt;  
  
by usubjid;  
  
where PPROT1FL="Y";  
  
run;
```

```
data trt;  
  
set trt;  
  
if TRT01A="THSm2.2" then trtcd=1;  
  
else if TRT01A="mCC" then trtcd=2;  
  
else if TRT01A="SA" then trtcd=3;
```

run;

/*

"- ADXT.PARAMCD in (AAVGDI , AAVGII , AAVGPCI , AAVGPMI , AAVGQCI, AAVGQMI, AAVGVI, AAVGWI, ANPC, APFEQ, APTI, ASMINT, ATDFI , ATDI, ATII , ATVOL, ATWI)

- AVISITN > 100

- PPROTxFL eq ""Y"" depending on study day within period"

*/

data indata1;

length group \$4;

set adam.ADXT;

group="A";

paramn=paramn+100;

if avisitn<=106 then used="The where clause used on the dataset adam.ADXT: PPROT1FL=Y and ANL02FL=Y";

else if avisitn=130 then used="The where clause used on the dataset adam.ADXT: PPROT2FL=Y and ANL02FL=Y";

else if avisitn=160 then used="The where clause used on the dataset adam.ADXT: PPROT3FL=Y and ANL02FL=Y";

else if avisitn>=190 then used="The where clause used on the dataset adam.ADXT: PPROT4FL=Y and ANL02FL=Y";

if PARAMCD in ("AAVGDI", "AAVGII", "AAVGPCI", "AAVGPMI", "AAVGQCI", "AAVGQMI", "AAVGVI", "AAVGWI", "ANPC",

"APFEQ", "APTI", "ASMINT", "ATDFI" , "ATDI", "ATII", "ATVOL", "ATWI") and avisitn >=100 and ANL02FL="Y";


```
drop DTYPE;
```

```
run;
```

```
data anldata1;
```

```
set indata1;
```

```
/* NL 14Dec2015: method=1 is geomean, method=2 is arithmetic mean) */
```

```
method=1;
```

```
if aval>0 then logaval=log(aval);
```

```
if base>0 then logbase=log(base);
```

```
run;
```

```
proc sort data=anldata1 out=fmt(keep=paramn param) nodupkey;
```

```
by paramn param;
```

```
run;
```

```
proc sort data=anldata1 out=check(keep=method paramcd) nodupkey;
```

```
by method paramcd;
```

```
run;
```

```
proc sort data=anldata1 out=basesub(keep=usubjid paramn) nodupkey;
```

```
by usubjid paramn;
```

```
where avisitn=100;
```

```
run;
```

```
proc sort data=anldata1;  
by usubjid paramn;  
run;
```

```
data anldata1;  
merge anldata1(in=a) basesub(in=b);  
by usubjid paramn;  
if a and b;  
run;
```

```
data anldata1;  
set anldata1;  
if &where.;  
run;
```

```
proc sort data=anldata1 out=check(keep=paramn avisitn avisit method used param paramcd) nodupkey;  
by paramn avisitn avisit method;  
where &where1.;  
run;
```

```
data trt_1;  
set trt;  
run;
```

```
data anldata1;  
  
set anldata1;  
  
if TRTP="THSm2.2" then trtcd=1;  
  
else if TRTP="mCC" then trtcd=2;  
  
else if TRTP="SA" then trtcd=3;  
  
run;
```

```
data check;  
  
set check;  
  
ord=_n_;  
  
run;
```

```
%*cal_summary_pvalue(whcre=1, outnum=1, var=aval, in=anldata1, pflg=1);
```

```
data rep;  
  
run;
```

```
data _null_;  
  
set check;  
  
call execute ('%cal_summary_pvalue(whcre=%str(avisitn=| |avisitn| |' and paramn=| |paramn| | ),  
outnum=| |ord| |', method=| |method| |', used=| |used| |', var=logaval, in=anldata1,  
paramcd=| |paramcd| |', avisit=| |avisit| |');');  
  
run;
```

```
data frep;  
  
set rep;
```

```
ord=ORDNUM;
```

```
run;
```

```
data frep;
```

```
merge frep(in=a) check;
```

```
by ord;
```

```
if a;
```

```
if avisitn>.;
```

```
run;
```

```
proc sort data=trt_1 nodupkey;
```

```
by trtcd usubjid;
```

```
run;
```

```
proc freq data = trt_1 noprint;
```

```
tables trtcd/ out= denom;
```

```
run;
```

```
data _null_;
```

```
set denom end=eof;
```

```
retain total 0;
```

```
total = total+count;
```

```
if trtcd= 1 then do;
```

```
    call symput('trt1', trim(left(put(count,8))));
```

```
end;
```

```
if trtcd= 2 then do;
```

```
    call symput('trt2', trim(left(put(count,8))));
```

```
end;
```

```
if trtcd= 3 then do;
```

```
    call symput('trt3', trim(left(put(count,8))));
```

```
end;
```

```
run;
```

```
%put trt1=&trt1 trt2=&trt2 trt3=&trt3;
```

```
%macro cal_part_main();
```

```
data frep;
```

```
set frep;
```

```
avisit=propcase(avisit);
```

```
if AVISIT="Day 0" then avisit="Baseline";
```

```
%do i = 1 %to 100;
```

```
if (&i-1)*5<ordnum<=&i*5 then pagen=&i;
```

```
%end;
```

```
run;
```

```
%mend;
```

```
%cal_part_main();
```

```
data frep&outn.;
```

```
set frep;
```

```
space="";
```

```
if _name_="p-value (one-sided)" then delete;
```

```
run;
```

```
%mend;
```

```
%trtrtfg(pgmname=&loutname., pgmid=1, new=0, style=, bookmark=%lowcase(&outname.));
```

```
title1 bold j=l "&lttitle1 &title2";
```

```
*footnote1 j=l h=9pt "Study ID:ZRHM-REXA-07-JP      Program: &fprgname..sas      Status:  
&repversion./&fdate.";
```

```
/* NL 14Dec2015: method=1 is geomean, method=2 is arithmetic mean) */
```

```
%mainloop(where1=%str(method=1), outn=2, where=%str(((avisitn in (100,101,104) and APUPER=1 and  
PPROT1FL="Y") or
```

```
(avisitn=130 and APUPER=2 and PPROT2FL="Y") or (avisitn=160 and APUPER=3 and PPROT3FL="Y") or  
(avisitn in (190, 191) and PPROT4FL="Y")) ));
```

```
ods listing;
```

```
ods rtf close;
```

```
/*mainloop(flg=PPROT2FL, outn=2, where=%str(avisitn=130 and APUPER=2));
```

```
/*mainloop(flg=PPROT3FL, outn=3, where=%str(avisitn=160 and APUPER=3));
```

```
/*mainloop(flg=PPROT4FL, outn=4, where=%str(avisitn in (190, 191) and APUPER=4));
```

```
data odata.T15020443_ZRHM_REXA_08_US_V1;
```

```
set /*frep1 (in=a)*/ frep2 (in=b) /*frep3 (in=c) frep4 (in=d)*/;
```

```
*if a then group="PPROT1FL";
```

```
*if b then group="PPROT2FL";
```

```
*if c then group="PPROT3FL";
```

```
*if d then group="PPROT4FL";
```

```
run;
```

```
/*
```

```
proc sort data=anldata1 out=fmt(keep=paramn param) nodupkey;
```

```
by paramn param;
```

```
run;
```

```
*/
```

```
data fmt;  
set fmt;  
fmtname="grp";  
start=paramn;  
label="Parameter: "||strip(param);  
run;
```

```
proc format cntlin=fmt;  
run;
```

```
%global totalpage2;  
data _null_;  
set frep2 end=eof;  
  
if eof then do;  
    call symput('totalpage2', trim(left(put(pagen,8.))));  
end;
```

```
run;
```

```
%put totalpage2=&totalpage2;
```


%*title(prgname1=&prgname.);

%trtrtf(pgmname=&outname., pgmid=1, new=0, style=, bookmark=%lowcase(&outname.));

/*****

title1 j=l h=9pt "Study ID: ZRHM-REXA-07-JP" j=r "Page ^{thispage} of ^{lastpage}";

title2 " ";

title3 bold j=l "&title1 &title2";

title5 "^R/RTF'\brdrb\brdrs ' ";

footnote1 "^R/RTF'\brdrb\brdrs ' ";

footnote2 j=l h=9pt "Note: mCC = Menthol conventional cigarettes; SA = Smoking abstinence; THSm2.2 = Tobacco Heating System 2.2 Menthol .";

footnote3 j=l h=9pt "Note: Adjusted geometric least squares (LS) means and confidence intervals (CIs) from an ANCOVA model conducted with baseline value, study arm, ";

footnote4 j=l h=9pt "sex and mCC consumption reported at screening as fixed effect factors. ";

footnote5 j=l h=9pt " ";

footnote6 j=l h=9pt "Program: &fprgname." j=c "Status: Draft/&fdate." j=r "&APPENDIX.";

/*****/

/* NL 14DEC2015 - Hardcoding table names */

ods rtf file= "F:\PASS\ZRH\Unblinded Data - Team 2\ZRHM-REXA-08-US\output\final\t1502044301-ZRHM-REXA-08-US-ahst-v1.0.rtf"

style=Custom BODYTITLE /*bookmark="t15020443-zrhmr-exa-08-US-ahst-v0.03"*/;

```
%let fprgname=t1502044301_ZRHM-REXA-08_US_v1_PMI; /* NL 14Dec2015 */
```

```
%let repversion=Final v1.0; /* - Draft v0.1 - NL 17Dec2015 */
```

```
%macro reppart;
```

```
  %do i = 1 %to &totalpage2;
```

```
proc report data=frep2 headskip headline spacing=4 nowd split='~' style=[outputwidth=100%]  
style(header column)=[protectspecialchars=off];
```

```
where pagen=&i;
```

```
column pagen paramn avisitn avisit sord _name__ _1 space _2 space _4;
```

```
define pagen /order order=internal noprint;
```

```
define paramn /order order=internal noprint;
```

```
define avisitn /order order=internal noprint;
```

```
define avisit /order "Time Point" flow style(column)=[cellwidth=6% just=l]; /* [cellwidth=8% just=l]; */
```

```
define sord /order order=internal noprint;
```

```
define _name_ /display "Statistic" flow style(column)=[cellwidth=10% just=l]; /* [cellwidth=8%  
just=l]; */
```

```
define _1 /display "THSm2.2" flow style(column)=[cellwidth=10% just=c];
```

```
define space /display " " flow style(column)=[cellwidth=0.5% just=c];
```

```
define _2 /display "mCC" flow style(column)=[cellwidth=10% just=c];
```

```
define space /display " " flow style(column)=[cellwidth=0.5% just=c];
```

```
define _4      /display "THSm2.2 : mCC ratio"  flow style(column)=[cellwidth=10% just=c];
```

```
/* NL 14Dec2015: change output format */
```

```
/*
```

```
COMPUTE before paramn ;
```

```
LINE @1 paramn grp.;
```

```
ENDCOMP;
```

```
*/
```

```
COMPUTE after avisitn ;
```

```
LINE @1 "";
```

```
ENDCOMP;
```

```
break after pagen/page;
```

```
compute before pagen;
```

```
line @1 "";
```

```
endcomp;
```

```
compute before _page_ /style=[fontweight=bold fontsize=3.75];
```

```
line @1 "&title1 &title2";
```

```
line @1 " ";
```

```
LINE @1 paramn grp.;
```

```
line @1 "^R/RTF^\brdrb\brdrs\brdrw30\brsp20\b ' ";
```

```
endcomp;
```

```
compute after _page_/style=[fontsize=1.75];
```

```
line @1 "Note: mCC = Menthol conventional cigarettes; THSm2.2 = Tobacco Heating System 2.2  
Menthol.";
```

```
line @1 "Note: Adjusted geometric least squares (LS) means and confidence intervals (CIs) from an  
ANCOVA model conducted with baseline value,";
```

```
line @1 "study arm, sex and mCC consumption reported at screening as fixed effect factors. ";
```

```
line @1 "&APPENDIX.";
```

```
line @1 "Study ID:ZRHM-REXA-08-US      Program: &fprgname..sas      Status: &repversion./&fdate.  
Page: &i. of &totalpage2";
```

```
endcomp;
```

```
run;
```

```
%end;
```

```
%mend;
```

```
%reppart;
```

```
ods listing;
```

```
ods rtf close;
```

