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/*=====
| Covance Study Number      : 000000106343      |
| Program Name              : t_mhbma_cc_pp.sas  |
| Purpose                   : Program to create table 15.2.4.2.1.2 |
| Input Data                : ADAM.ADSL, ADAM.ADBX |
| Output Data               : T_15_02_04_02_01_02 |
| Macros Called             : %m_printto, %param, %stats, %outrtf, %m_logchk |
| Originally Performed by   : Upender S          |
| Date                     : 18May2015           |
|=====
| Modification History
|-----
| Modified by              :
| Modification Date        :
| Modification Description :
+=====*/

%m_printto(route=YES);

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

ods results on;
ods path sashelp.tmplmst (read);

data _null_;
    tmp="%TFL_Part";
    if tmp not in ("dev" "qc") then call symput("TFL_Part", "prod");
    call symput('TFLpath', compress('&_SASPROGRAMFILE',''));
    call symput('TFLprg',reverse(scan(strip(reverse(compress('&_SASPROGRAMFILE',''))),1,"/")));
run;

data adbx;
    set adam.adbx (where=((pprot1f1 = "Y" or pprot2f1 = "Y" or pprot3f1 = "Y" or pprot4f1 = "Y") and an102f1='Y' ));
run;

data adbx1 (drop=trtpn rename=(trtpn_=trtpn));
    set adbx;
    if trtp='THSm2.2' then trtpn_=1;
    if trtp='mCC' then trtpn_=2;
    if trtp='SA' then trtpn_=trtpn;

    if trtpn_=1 then cat='1';
    if trtpn_=2 then cat='2';
    if trtpn_=3 then cat='3';
run;

proc sql exec; select count(distinct usubjid) into: N1THS_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 4 and pprot1f1 = "Y")); q
uit;
proc sql exec; select count(distinct usubjid) into: N1THS_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 4 and pprot1f1 = "Y")); q
uit;

proc sql exec; select count(distinct usubjid) into: N1MCC_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 5 and pprot1f1 = "Y"));qu
it;
proc sql exec; select count(distinct usubjid) into: N1MCC_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 5 and pprot1f1 = "Y"));qu
it;

proc sql exec; select count(distinct usubjid) into: N1SAA_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 3 and pprot1f1 = "Y"));qu
it;
proc sql exec; select count(distinct usubjid) into: N1SAA_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 3 and pprot1f1 = "Y"));qu
it;

proc sql exec; select count(distinct usubjid) into: N2THS_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 4 and pprot2f1 = "Y"));qu
it;
proc sql exec; select count(distinct usubjid) into: N2THS_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 4 and pprot2f1 = "Y"));qu
it;

proc sql exec; select count(distinct usubjid) into: N2MCC_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 5 and pprot2f1 = "Y"));q
uit;
proc sql exec; select count(distinct usubjid) into: N2MCC_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 5 and pprot2f1 = "Y"));q
uit;

proc sql exec; select count(distinct usubjid) into: N2SAA_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 3 and pprot2f1 = "Y"));qu
it;
proc sql exec; select count(distinct usubjid) into: N2SAA_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 3 and pprot2f1 = "Y"));qu
it;

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proc sql exec; select count(distinct usubjid) into: N3THS_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 4 and pprot3f1 = "Y"));quit;
proc sql exec; select count(distinct usubjid) into: N3THS_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 4 and pprot3f1 = "Y"));quit;

proc sql exec; select count(distinct usubjid) into: N3MCC_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 5 and pprot3f1 = "Y"));quit;
proc sql exec; select count(distinct usubjid) into: N3MCC_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 5 and pprot3f1 = "Y"));quit;

proc sql exec; select count(distinct usubjid) into: N3SAA_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 3 and pprot3f1 = "Y"));quit;
proc sql exec; select count(distinct usubjid) into: N3SAA_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 3 and pprot3f1 = "Y"));quit;

proc sql exec; select count(distinct usubjid) into: N4THS_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 4 and pprot4f1 = "Y"));quit;
proc sql exec; select count(distinct usubjid) into: N4THS_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 4 and pprot4f1 = "Y"));quit;

proc sql exec; select count(distinct usubjid) into: N4MCC_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 5 and pprot4f1 = "Y"));quit;
proc sql exec; select count(distinct usubjid) into: N4MCC_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 5 and pprot4f1 = "Y"));quit;

proc sql exec; select count(distinct usubjid) into: N4SAA_M from adam.adsl(where=(UCPDGR1N=2 and trt01pn = 3 and pprot4f1 = "Y"));quit;
proc sql exec; select count(distinct usubjid) into: N4SAA_F from adam.adsl(where=(UCPDGR1N=3 and trt01pn = 3 and pprot4f1 = "Y"));quit;

%put ths1m=&N1THS_M. ths1f=&N1THS_F. ;

%macro param(paramcd=, x=);

data &paramcd._orig;
set adbx1;
where paramcd = "&paramcd.";
run;

%macro stats(colvar=);

data co_1;
set &paramcd._orig;;
where (pprot1f1 = "Y" and 101<=avisitn <= 105) or (pprot2f1 = "Y" and avisitn = 130) or (pprot3f1 = "Y" and avisitn = 160) or (
pprot4f1 = "Y" and avisitn = 190);
where also paramcd = "&paramcd." and avalc ne "" ;

if avisit in ('DAY -1' 'DAY 0') then delete;

if not missing(&colvar.) and &colvar. > 0 then ageo=log(&colvar.);

if not missing(&colvar.) then dataflg=1;
keep usubjid paramn UCPDGR1N cat avisitn avisit &colvar. aqlf1 ageo dataflg apuper apuperc;

run;

data baseline ;
set &paramcd._orig;;
where paramcd = "&paramcd." ;

if &colvar. ^=. and &colvar. > 0 then ageo=log(&colvar.);
if not missing(&colvar.) then dataflg=1;

if ablf1='Y' and pprot1f1 = "Y" then do; avisit='Baseline'; avisitn=10; apuper = 1; apuperc = "Period 1"; output; end;
if ablf1='Y' and pprot2f1 = "Y" then do; avisit='Baseline'; avisitn=10; apuper = 2; apuperc = "Period 2";output; end;
if ablf1='Y' and pprot3f1 = "Y" then do; avisit='Baseline'; avisitn=10; apuper = 3; apuperc = "Period 3"; output; end;
if ablf1='Y' and pprot4f1 = "Y" then do; avisit='Baseline'; avisitn=10; apuper = 4; apuperc = "Period 4";output; end;
keep usubjid paramn UCPDGR1N cat avisitn avisit &colvar. aqlf1 ageo apuper apuperc;

run;

proc sort data=baseline NODUPKEY;
by apuper apuperc usubjid cat UCPDGR1N avisit avisitn &colvar.;
run;

data co_1b;
set co_1 baseline;
run;

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proc sort data=co_1b; by apuper apuperc avisitn avisit cat UCPDGR1N; run;

** BLQ Counts **;

proc sort data=co_1b out=co_1bq nodupkey dupout=blqdups; by usubjid paramn cat UCPDGR1N avisitn ; run;

proc sql;
  create table co_2t as select apuper, apuperc, cat, UCPDGR1N, count(distinct usubjid) as tot from co_1bq group by apuper, apuperc
, cat, UCPDGR1N order by apuper, apuperc, cat, UCPDGR1N;
  create table co_2c as select apuper, apuperc, cat, UCPDGR1N, avisitn, avisit, 'BLQ' as _stat_ length=8, sum(AQLFL='Y') as count
from co_1bq
  group by apuper, apuperc, cat, UCPDGR1N, avisitn, avisit order by apuper, apuperc, cat, UCPDGR1N, avisitn;
  create table co_2s as select apuper, apuperc, cat, UCPDGR1N, avisit, avisitn, count(distinct usubjid) as stot from co_1bq where d
ataflg=1
  group by apuper, apuperc, cat, UCPDGR1N, avisitn, avisit order by apuper, apuperc, cat, UCPDGR1N, avisitn;
quit;

data co_2bX; /* 1) JH 23OCT2014 */
  merge co_2c(in=a) co_2t ; /* 1) JH 23OCT2014 */
  by apuper apuperc cat UCPDGR1N ;
  if a;
run;

/* 1) JH 23OCT2014 - START */
DATA CO_2B;
  MERGE CO_2BX(IN=A) CO_2S;
  BY apuper apuperc CAT UCPDGR1N AVISITN AVISIT;
  IF A;
RUN;
/* 1) JH 23OCT2014 - END */

proc sort data=co_1b ;
by apuper apuperc avisitn avisit cat UCPDGR1N &colvar.;
run;

** Normal Stats **;
proc means data=co_1b noprint;
  var &colvar.;
  by apuper apuperc avisitn avisit cat UCPDGR1N;
  output out=co_2s(drop=_freq_ _type_) n=n mean=mean std=std median=med min=min max=max p25=q25 p75=q75 lclm =c195 uclm=cu95;
run;

****combining BLQ stats with rest of the stats ****;
proc sort data=CO_2B ; by apuper apuperc avisitn avisit cat UCPDGR1N; run;

data co_2s_biq;
merge co_2s (in=a) CO_2B (in=b drop=_stat_ tot stot rename=(count=biq));
by apuper apuperc avisitn avisit cat UCPDGR1N;
run;

data co_2s_1;
set co_2s_biq;
if apuper = 1 then do;
  period = "Period 1";
  if cat= '1' and UCPDGR1N=2 then BigN= &N1THS_M;
  if cat= '1' and UCPDGR1N=3 then BigN= &N1THS_F;
  if cat= '2' and UCPDGR1N=2 then BigN = &N1MCC_M;
  if cat= '2' and UCPDGR1N=3 then BigN = &N1MCC_F;
  if cat= '3' and UCPDGR1N=2 then BigN = &N1SAA_M;
  if cat= '3' and UCPDGR1N=3 then BigN = &N1SAA_F;
end;
else if apuper = 2 then do;
  period = "Period 2";
  if cat= '1' and UCPDGR1N=2 then BigN= &N2THS_M;
  if cat= '1' and UCPDGR1N=3 then BigN= &N2THS_F;
  if cat= '2' and UCPDGR1N=2 then BigN = &N2MCC_M;
  if cat= '2' and UCPDGR1N=3 then BigN = &N2MCC_F;
  if cat= '3' and UCPDGR1N=2 then BigN = &N2SAA_M;
  if cat= '3' and UCPDGR1N=3 then BigN = &N2SAA_F;
end;
else if apuper = 3 then do;
  period = "Period 3";
  if cat= '1' and UCPDGR1N=2 then BigN= &N3THS_M;
  if cat= '1' and UCPDGR1N=3 then BigN= &N3THS_F;
  if cat= '2' and UCPDGR1N=2 then BigN = &N3MCC_M;
  if cat= '2' and UCPDGR1N=3 then BigN = &N3MCC_F;

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if cat= '3' and UCPDGR1N=2 then BigN = &N3SAA_M;
if cat= '3' and UCPDGR1N=3 then BigN = &N3SAA_F;
end;
else if apuper = 4 then do;
period = "Period 4";
if cat= '1' and UCPDGR1N=2 then BigN= &N4THS_M;
if cat= '1' and UCPDGR1N=3 then BigN= &N4THS_F;
if cat= '2' and UCPDGR1N=2 then BigN = &N4MCC_M;
if cat= '2' and UCPDGR1N=3 then BigN = &N4MCC_F;
if cat= '3' and UCPDGR1N=2 then BigN = &N4SAA_M;
if cat= '3' and UCPDGR1N=3 then BigN = &N4SAA_F;
end;

msgng=BigN-n;
if .<msgng^=0 then msgng_prct=(msgng/BigN)*100;
if .<blq^=0 then blq_prct=(blq/N)*100;
run;

data co_2s_c;
length N mean_sd min_max median q25_q75 c195_cu95 msg_pct blq_pct $50.;
set co_2s_1(rename=(n=n_orig));

if c195 ne . then c195 = 0.01*floor(100*c195);
if cu95 ne . then cu95 = 0.01*ceil(100*cu95);

if n_orig ^=. then N = compress(put(n_orig,best.));
if .<msgng^=0 then msg_pct=compress(put(msgng, best.))||' ('||compress(put(msgng_prct, 5.1))||')';
if .<blq^=0 then blq_pct=compress(put(blq, best.))||' ('||compress(put(blq_prct, 5.1))||')';

if mean ^=. and std ^=. then mean_sd =strip(put(mean,12.2))||' ('||strip(put(std,12.3))||')';
if min ^=. and max ^=. then min_max = strip(put(min,12.1))||', '||strip(put(max,12.1));
if med ^=. then median = strip(put(med,12.2));
if q25^=. and Q75^=. then q25_q75= strip(put(q25,12.2))||', '||strip(put(q75,12.2));
if c195^=. and cu95^=. then c195_cu95= strip(put(c195,12.2))||', '||strip(put(cu95,12.2));
run;

proc transpose data=co_2s_c out=co_2s_ct (rename=(name=_stat_ col1=&colvar.));
by apuper apuperc avisitn avisit cat UCPDGR1N;
var N msg_pct blq_pct mean_sd median min_max q25_q75 c195_cu95;
run;

data co_2s_ct (rename=(stat=_stat_));
length stat $10.;
set co_2s_ct;
stat=_stat_;
drop _stat_;
run;

** Geometric Stas **;
proc means data=co_1b noprint mean std lclm uclm;
where &colvar ne .;
var ageo;
by apuper apuperc avisitn avisit cat UCPDGR1N;
output out=co_2gs mean=gmean std=gstd lclm=glclm uclm=guc1m;
run;

data co_2gs_x (drop=gmean glclm guclm rename=(gmean_x=gmean glclm_x=glclm guclm_x=guc1m ));
set co_2gs;
if gmean ne . then gmean_x=exp(gmean);
if glclm ne . then glclm_x=exp(glclm);
if guclm ne . then guclm_x=exp(guc1m);
run;

data co_2gs_c;
set co_2gs_x;

if glclm ne . then glclm = 0.01*floor(100*glclm);
if guclm ne . then guclm = 0.01*ceil(100*guc1m);

if gstd ^=. then CV=sqrt(exp(gstd*gstd)-1)*100;
if gmean ^=. and CV ^=. then gmean_cv =strip(put(gmean,12.2))||' ('||strip(put(cv,12.3))||')';
if glclm^=. and guclm^=. then glcm_guc1m= strip(put(glclm,12.2))||', '||strip(put(guc1m,15.2));
if glclm=. and guclm=. then glcm_guc1m= 'NA' ||', '||'NA';
run;

proc transpose data=co_2gs_c out=co_2gs_ct( rename=(name=_stat_ col1=&colvar.));
by apuper apuperc avisitn avisit cat UCPDGR1N;
var gmean_cv glcm_guc1m;

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run;

data co_3;
  set co_2s_ct co_2gs_ct;
run;

proc sort data=co_3 out=co_4; by apuper apuperc avisitn avisit _stat_; run;

proc transpose data=co_4 out=transpose_&colvar. prefix=&colvar.;
  by apuper apuperc avisitn avisit _stat_;
  id cat UCPDGR1N;
  var &colvar.;
run;
%mend stats;

%stats(colvar=aval);
%stats(colvar=pchg);

data taval;
  set transpose_aval;
  rename
    aval12 = trt_4_F
    aval13 = trt_4_M
    aval22 =   trt_5_F
    aval23 = trt_5_M
    aval32 =   trt_3_F
    aval33 = trt_3_M
    ;
  utxt='aval';
  uord=1;
run;

data tpchg;
  set transpose_pchg;
  rename
    pchg12 = trt_4_F
    pchg13 = trt_4_M
    pchg22 =   trt_5_F
    pchg23 = trt_5_M
    pchg32 =   trt_3_F
    pchg33 = trt_3_M
    ;
  utxt='pchg';
  uord=2;
run;

data &paramcd;
  set taval (in=a drop=_name_)
    tpchg(in=b drop=_name_);
run;

data &paramcd._final;
  length label $100.;
  set &paramcd.;
  if upcase(_stat_) = "N" then do; order = 1; label="n";end;
  if upcase(_stat_)='MSG_PCT' then do; order=1.5; label='Missing, n (%)'; end;
  if upcase(_stat_)='BLQ_PCT' then do; order=1.75; label='BLQ, n (%)'; end;

  if upcase(_stat_) = "GMEAN_CV" then do; order = 2; label="Geometric Mean (CV%)";end;
  if upcase(_stat_) = "GLCM_GUCLM" then do; order = 3; label="95% CI of Geometric Mean";end;
  if upcase(_stat_) = "MEDIAN" then do; order = 4; label="Median";end;
  if upcase(_stat_) = "Q25_Q75" then do; order = 5; label="Q25, Q75";end;
  if upcase(_stat_) = "MIN_MAX" then do; order = 6; label="Min, Max";end;
  if upcase(_stat_) = "MEAN_SD" then do; order = 7; label="Mean (SD)";end;
  if upcase(_stat_) = "CL95_CU95" then do; order = 8; label="95% CI of Mean";end;

run;

proc sort data=&paramcd._final;
  by apuper apuperc avisitn avisit uord order;
run;

%mend param;

%param(paramcd=UMHBMCRE);

proc sort data = adbx out=param (keep=paramcd param paramn avalu) nodupkey;
  by paramcd;

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run;

data final;
  length paramcd $8.;
  set UMHBMCRE_final;
  paramcd = "UMHBMCRE";
run;

proc sort data=final;
  by paramcd apuper apuperc avisitn avisit uord order;
run;

data final1;
  merge final(in=a) param(in=b);
  by paramcd;
  if a;
run;

****set pchg to missing for paramcd = 46;
data final2;
  set final1;
  if apuper in (2 3) then delete;
  if upcase(avisit) = "BASELINE" and utxt='pchg' then delete ;
  if utxt='pchg' and order in (2 3) then delete;
run;

data final3;
  set final2;
  rename label = txt
         order = txtn;
run;

proc sort data= final3;
  by paramn param apuper apuperc avisitn uord txtn;
run;

data final3a;
  set final3;
  if upcase(_stat_)= 'MSG_PCT' and cmiss(trt_3_M, trt_3_F, trt_4_M, trt_4_F, trt_5_F, trt_5_M)=6 then delete;
  if upcase(_stat_) = 'BLQ_PCT' and cmiss(trt_3_M, trt_3_F, trt_4_M, trt_4_F, trt_5_F, trt_5_M)=6 then delete;
  if upcase(_stat_) = 'BLQ_PCT' and uord=2 then delete;

  if uord=2 then do;
    avisit='%Change from baseline to '||strip(avisit);
  end;

  if upcase(_stat_) = 'BLQ_PCT' then do;

    array ms {6} trt_3_M trt_3_F trt_4_M trt_4_F trt_5_F trt_5_M;
    do i = 1 to 6;
      if ms{i} = '' then ms{i} = '0';
    end;

  end;

  if upcase(_stat_) = 'MSG_PCT' then do;

    array mb {6} trt_3_M trt_3_F trt_4_M trt_4_F trt_5_F trt_5_M;
    do i = 1 to 6;
      if mb{i} = '' then mb{i} = '0';
    end;

  end;
run;

data tflds.t_15_02_04_02_01_02;
  set final3a (drop=paramcd _stat_);
run;
proc sort data=final3a; by paramn param apuper apuperc avisitn uord txtn ;

data final_dp;
  length period $200.;
  set final3a;
  by paramn param apuper apuperc avisitn uord txtn ;
  if apuper = 1 then do;
    period = "Period 1";
    THS_M = &N1THS_M;
    THS_F = &N1THS_F;

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mcc_M = &N1MCC_M;
mcc_F = &N1MCC_F;
sa_M = &N1SAA_M;
sa_F = &N1SAA_F;
end;
else if apuper = 2 then do;
period = "Period 2";
THS_M = &N2THS_M;
THS_F = &N2THS_F;
mcc_M = &N2MCC_M;
mcc_F = &N2MCC_F;
sa_M = &N2SAA_M;
sa_F = &N2SAA_F;
end;
else if apuper = 3 then do;
period = "Period 3";
THS_M = &N3THS_M;
THS_F = &N3THS_F;
mcc_M = &N3MCC_M;
mcc_F = &N3MCC_F;
sa_M = &N3SAA_M;
sa_F = &N3SAA_F;
end;
else if apuper = 4 then do;
period = "Period 4";
THS_M = &N4THS_M;
THS_F = &N4THS_F;
mcc_M = &N4MCC_M;
mcc_F = &N4MCC_F;
sa_M = &N4SAA_M;
sa_F = &N4SAA_F;
end;
if uord=2 then do;
avisitn=avisitn+0.5;
end;
run;

proc sort data=final_dp; by paramn param apuper apuperc avisitn uord txtn ;

proc sql;
create table page as
select distinct apuper, apuperc, avisitn
from final_dp
order by apuper, avisitn;
quit;

data page1;
set page;
by apuper avisitn;
if _n_ = 0 then page = 0;
page+ 1;
run;

proc sql;
create table final_page as
select distinct a.*, b.page
from final_dp as a
left join page1 as b
on a.avisitn = b.avisitn and a.apuper = b.apuper
order by apuper,avisitn, uord, txtn;
quit;

data final_page;
set final_page end=last;
by apuper avisitn uord txtn;
if last then call symputx("page", page);
run;

%let tfl = %str(T_15_02_04_02_01_02);
%let title1 = %str(Table 15.2.4.2.1.2 Descriptive Statistics of MHBMA Urinary Concentration Adjusted for Creatinine (pg/mg creat) in
24-hour Urine Collection by Cigarette Consumption - PP Set);
%let tflno=&tfl.;

/* Standard - leave this */
options number nodate orientation=landscape 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;

/* Standard - macro for paging */
%macro outrtf(blankn=130, halfblnk=N);

%if &halfblnk=N %then %let halfblnk=;
%else %if &halfblnk=Y %then %let halfblnk=\~;

ods path stdlib.t106343 (read) ;
ods rtf toc_data file="/cvn/projects/prj/data/000000106343/TFL/&TFL_Part./Tables/&tfino..rtf" style=t106343 startpage=yes headery=14
40 footery=1440 ;
ods noproctitle;
%do i=1 %to &page;

title ;
footnote;
%let wd=0;
ods proclabel = ' ';

data comp;
    set final_page end=eof;
    where page=&i;

    /* Amend title as needed */
    _firtitl="%title1.";
    _upcas=(length("Path: &TFLpath.")-length(compress("Path:&TFLpath.", 'ABCDEFGHIJKLMNOPQRSTUVWXYZ')))/2;
    len=&blankn.-length("(page &i of &page)");
if eof then do;
    call symput('_FSRTITL', trim(left(_firtitl)));
    call symput('_blankn', compress(put(len,best.)));
    call symput('period', strip(apuperc));
    call symput('param', strip(param));
    call symput('N3M', strip(put(sa_M, best.)));
    call symput('N3F', strip(put(sa_F, best.)));
    call symput('N4M', strip(put(thS_M, best.)));
    call symput('N4F', strip(put(thS_F, best.)));
    call symput('N5M', strip(put(mcc_M, best.)));
    call symput('N5F', strip(put(mcc_F, best.)));
end;
drop _firtitl _upcas len;
run;

* 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;
/* Update with your variables as needed */
proc report data = comp headline headskip nowd split = '$' %if &i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;;
column page apuper avisitn avisitn uord txtn txt ("THSm2.2&linebot" trt_4_F trt_4_M ) ("mCC&linebot" trt_5_F trt_5_M)
("SA&linebot" trt_3_F trt_3_M);
define page / order order = internal noprint;
define avisitn / order order = internal noprint;
define apuper / order order = internal noprint;
define uord / order order = internal noprint;
define txtn / order order = internal noprint;
define avisit / "Timepoint" order order=internal style={just=left cellwidth=1.4cm} style(header)={just=left} ;
define txt / "Statistic" display style={just=left cellwidth=1.9cm} style(header)={just=left} ;
define trt_3_M / ">19 cig/day$(N=&N3M)" display style={JUST=c cellwidth=1.3cm} style(header)={just=center} ;
define trt_4_M / ">19 cig/day$(N=&N4M)" display style={just=c cellwidth=1.3cm} style(header)={just=center} ;
define trt_5_M / ">19 cig/day$(N=&N5M)" display style={just=c cellwidth=1.3cm} style(header)={just=center};
define trt_3_F / "10-19 cig/day$(N=&N3F)" display style={JUST=c cellwidth=1.3cm} style(header)={just=center} ;
define trt_4_F / "10-19 cig/day$(N=&N4F)" display style={just=c cellwidth=1.3cm} style(header)={just=center} ;
define trt_5_F / "10-19 cig/day$(N=&N5F)" display style={just=c cellwidth=1.3cm} style(header)={just=center};

compute after avisitn;
line " ";
endcomp;

compute before _page_ / style={just=left protectspecialchars=off};
line "\b\fs24\sa24&_FSRTITL." ;
line "&linebot";
endcomp;

compute after _page_ / style={just=left protectspecialchars=off pretext="&linetop."};
line 'Note: mCC = Menthol Conventional cigarettes; SA = Smoking abstinence; THSm2.2 = Tobacco Heating System 2.2 Menthol.';

```



```

LINE 'Note: * % Change from baseline, where baseline is defined as the last assessment prior to first randomized product use in mC
C / THS 2.2 Menthol arms or the last assessment prior to 10AM on Day 1 in the SA arm.';
line "Note: 'Missing' percentages are based on the number of subjects indicated in the column header (N), while 'BLOQ' percentage
s are based on the number of subjects being summarized (n).";
line '';
line 'Appendix 15.3.3.1';
line "Study ID:ZRHM-REXA-08-US          Program: &TFLprg          Status: &status" &_blankn.*"\~\~" "&sysdate" &_blankn.*"\~\~
" "(Page &i of &page)";
endcomp;
run;
%end;
ods rtf close;
ods results on;
ods path sashelp.tmplmst (read);

%mend outrtf;

%outrtf(blankn=28, halfblnk=N);
ods listing;

%m_logchk;

```