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/*=====
*Covance Study ID      : 000000106343
*Program Name          : t_nnal_sex.sas
*Purpose               : Descriptive Statistics of Total NNAL Urinary Concentration Adjusted for
                        Creatinine (pg/mg creat) in 24-hour Urine Collection by Sex - PP Set
                        Table 15.2.4.5.1.1
*Input Data            : adam.adsl, ADAM.adbx
*Output Data           : tflds.T_15_02_04_05_01_01
*Macros Called         : %m_printto, %m_logchk, %trt, %mmeans, %mfinp, %outrtf
*Programmed by        : L.Ma
*Creation Date         : 2015-05-15
*== Modification History =====
*Date      Initials   No. Reason;
*=====*/

options notes nosource;
proc datasets lib=work nolist memtype=data kill; quit;
options notes source source2 nofullstimer validvarname=upcase missing=' ';
ods _all_ close;
ods listing;

%m_printto;

/*Macro to get N values from adam.adsl for column headers for each period per mock*/
%macro trt(pfl=);
%global trt1 trt2 trt3 trt4 trt5 trt6;
data adsl;
  set adam.adsl(where=&pfl.);
  if trt01pn=4 and sexc='Male' then trt=1;
  else if trt01pn=4 and sexc='Female' then trt=2;
  else if trt01pn=5 and sexc='Male' then trt=3;
  else if trt01pn=5 and sexc='Female' then trt=4;
  else if trt01pn=3 and sexc='Male' then trt=5;
  else if trt01pn=3 and sexc='Female' then trt=6;
run;

proc freq data=adsl noprint;
  table trt/ out =tot(drop=percent rename=(count=total));
run;

data tot2;
  set tot;
  call symput('trt' || compress(put(trt,best.)), compress(put(total,best.)));
run;
%mend trt;

/*macro for general mean stats(n mean std median min max Q25 Q75 lclm uclm)for each period per mock;*/
%macro mmeans(pfl=, prd=, class=, var=, out=);

%trt(pfl=&pfl.);

/*Bring in data from ADBX for Total NNAL in 24-hour Urine Collection - PP Set for each period per Mock*/
data adbx1;
  set adam.adbx;
  where anl02fl='Y' AND PARCAT1 = 'BIOMARKERS' AND PARAMCD in ('UNNALCRE') AND LBSPEC = 'URINE'
  AND &prd.;
  if trtpn=4 and sexc='Male' then trt=1;
  else if trtpn=4 and sexc='Female' then trt=2;
  else if trtpn=5 and sexc='Male' then trt=3;
  else if trtpn=5 and sexc='Female' then trt=4;
  else if trtpn=3 and sexc='Male' then trt=5;
  else if trtpn=3 and sexc='Female' then trt=6;
run;

data adbx;
  set adbx1;
  %if &out.=out_p1 or &out.=out_p4 %then %do;
    if ablf1='Y' then avisit='Baseline';
  %end;

  if avisit='Day 0' then delete;
  if ablf1='Y' then do; avisit='Baseline'; avisitn=100; end;

run;

/*get general mean stats;*/
proc means data=adbx noprint nway;

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var &var.;
class &class. trt;
output out=results02 n=n1 mean=mean1 std=std1 median=median1 min=min1 max=max1 q1=q1 q3=q3 lclm=lci1 uclm=uci1;
run;

data results03;
set results02;
attrib meansd length=$20.
minmax length=$20.
n length=$20.
miss length=$20.
median length=$20.
quart aci length=$20.;

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

*for <missing, n(%)>;
if trt=1 then do;
if &trt1.=n1 then miss="";
else miss=strip(put((&trt1.-n1), 8.)) || ' (' || strip(put(((&trt1.-n1)*100)/&trt1., 8.1)) || "%";
end;
else if trt=2 then do;
if &trt2.=n1 then miss="";
else miss=strip(put((&trt2.-n1), 8.)) || ' (' || strip(put(((&trt2.-n1)*100)/&trt2., 8.1)) || "%";
end;
else if trt=3 then do;
if &trt3.=n1 then miss="";
else miss=strip(put((&trt3.-n1), 8.)) || ' (' || strip(put(((&trt3.-n1)*100)/&trt3., 8.1)) || "%";
end;
else if trt=4 then do;
if &trt4.=n1 then miss="";
else miss=strip(put((&trt4.-n1), 8.)) || ' (' || strip(put(((&trt4.-n1)*100)/&trt4., 8.1)) || "%";
end;
else if trt=5 then do;
if &trt5.=n1 then miss="";
else miss=strip(put((&trt5.-n1), 8.)) || ' (' || strip(put(((&trt5.-n1)*100)/&trt5., 8.1)) || "%";
end;
else if trt=6 then do;
if &trt6.=n1 then miss="";
else miss=strip(put((&trt6.-n1), 8.)) || ' (' || strip(put(((&trt6.-n1)*100)/&trt6., 8.1)) || "%";
end;

if not missing(median1) then median = left(compress(put(round(median1,0.01),8.2)));
if not missing(mean1) and not missing(std1) then meansd = left(compress(put(round(mean1,0.01),8.2)) || ' (' || left(compress(p
ut(0.001*ceil(std1/0.001),8.3)) || ')');
if not missing(min1) and not missing(max1) then minmax = left(compress(put(min1,8.1)) || ', ' || left(compress(put(max1,8.1))
);
if not missing(lci1) and not missing(uci1) then aci = strip(put(0.01*floor(lci1/0.01),8.2)) || ', ' || strip(put(0.01*ceil(uci1/
0.01),8.2));
if not missing(q1) and not missing(q3) then quart = strip(strip(put(round(q1, 0.01),8.2)) || ', ' || strip(put(round(q3, 0.01),8.2
)));
drop n1 mean1 std1 median1 min1 max1 q1 q3 uci1 lci1 ;
run;

proc transpose data=results03 out=&out prefix=r name=varname;
by &class.;
var n miss meansd median minmax aci quart;
id trt;
run;

data &out.;
set &out.;
length stat $200;
if upcase(varname)='N' then do; statord=1; stat='n'; end;
if upcase(varname)='MISS' then do; statord=2; stat='Missing, n (%)'; end;
if upcase(varname)='MEDIAN' then do; statord=7; stat='Median'; end;
if upcase(varname)='QUART' then do; statord=8; stat='Q25, Q75'; end;
if upcase(varname)='MINMAX' then do; statord=9; stat='Min, Max'; end;
if upcase(varname)='MEANSD' then do; statord=10; stat='Mean (SD)'; end;
if upcase(varname)='ACI' then do; statord=11; stat='95% CI of Mean'; end;run;
%mend mmeans;

%mmeans(pf1=(PPROT1FL='Y'), prd=(PPROT1FL='Y' and avisit in ('Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4' 'Day 5')), class=PARAMCD PARAM
avisitn avisit, var=aval, out=out_p1);
%mmeans(pf1=(PPROT4FL='Y'), prd=(PPROT4FL='Y' and (ablfl='Y' or avisit ='Day 90')), class=PARAMCD PARAM avisitn avisit, var=aval, ou
t=out_p4);

%mmeans(pf1=(PPROT1FL='Y'), prd=(PPROT1FL='Y' and ABLFL ne "Y" and avisit in ('Day 1' 'Day 2' 'Day 3' 'Day 4' 'Day 5')), class=PARAM

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CD PARAM avisitn avisit, var=pchg, out=out_c1);
%mmeans(pfl=(PPROT4FL='Y'), prd=(PPROT4FL='Y' and ABLFL ne "Y" and avisit in ('Day 90' )), class=PARAMCD PARAM avisitn avisit, var=p
chg, out=out_c4);

/*macro for Geometric Mean per mock;*/
%macro mmeans(prd=, class=, var=, out=);
/*Bring in data from ADBX for Total NNAL in 24-hour Urine Collection - PP Set for each period per Mock*/
data adbx1;
set adam.adbx;
where anl02fl='Y' AND PARCAT1 = 'BIOMARKERS' AND PARAMCD in ('UNNALCRE') AND LBSPEC = 'URINE'
AND &prd.;
if trtpn=4 and sexc='Male' then trt=1;
else if trtpn=4 and sexc='Female' then trt=2;
else if trtpn=5 and sexc='Male' then trt=3;
else if trtpn=5 and sexc='Female' then trt=4;
else if trtpn=3 and sexc='Male' then trt=5;
else if trtpn=3 and sexc='Female' then trt=6;
run;

data adbx;
set adbx1;
if ablfl='Y' then avisit='Baseline';
if avisit='Day 0' then delete;
if ablfl='Y' then do; avisit='Baseline'; avisitn=100; end;

logaval=log(aval);
run;

proc means data=adbx noprint nway;
var &var.;
class &class. trt;
output out=results02 mean=mean std=std1 lclm=lci1 uclm=uci1;
run;

data results03;
set results02;
length ci $20;
gmean1=exp(mean);
gmean=left(compress(put(round(gmean1,0.01), 8.2))), 8.2));
gcv=compress(put(0.001*ceil((sqrt(exp(std1*std1)-1)*100)/0.001),8.3));
glci=exp(lci1);
guci=exp(uci1);
if not missing(gcv) then gmeancv=left(trim(gmean) || ' (' || left(trim(gcv))||')');
else gmeancv=left(trim(gmean));
if not missing(glci) and not missing(guci) then ci = strip(strip(put(0.01*floor(glci/0.01),8.2)) || ', ' || strip(put(0.01*ceil(guc
i/0.01),11.2))));
run;

proc transpose data=results03 out=&out. prefix=r name=varname;
by &class;
var gmeancv ci;
id trt;
run;

data &out.;
set &out.;
length stat $200;
if upcase(varname)='GMEANCV' then do; statord=5; stat='Geometric Mean (CV%)'; end;
if upcase(varname)='CI' then do; statord=6; stat='95% CI of Geometric Mean'; end;
run;

%mend mmeans;

%mmeans(prd=(PPROT1FL='Y' and avisit in ('Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4' 'Day 5')), class=PARAMCD PARAM avisitn avisit, var=
logaval, out=out_g1);
%mmeans(prd=(PPROT4FL='Y' and (ablfl='Y' or avisit = 'Day 90')), class=PARAMCD PARAM avisitn avisit, var=logaval, out=out_g4);

*check data for BLOQ/ALOQ ;
*per Jh email at Wed 7/1/2015 9:34 AM ---- we only need to present BLOQ as a line item if there are BLOQ values for a given paramete
r/timepoint;
proc freq data=adam.adbx(where=(anl02fl='Y' AND PARCAT1 = 'BIOMARKERS' AND PARAMCD in ('UNNALCRE') AND LBSPEC = 'URINE' AND AQLFL='Y
' ));
table AVALC;
run;

/*macro for BLOQ n(%) row.*/
%macro mmeans(pfl=, prd=, class=, var=, out=);
/*Bring in data from ADBX with AQLFL=Y and ANL02FL=Y for Total NNAL in 24-hour Urine Collection - PP Set by sex for each period per

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Mock*/
data adbx1;
  set adam.adbx;
  where anl02f1='Y' AND PARCAT1 = 'BIOMARKERS' AND PARAMCD in ('UNNALCRE') AND LBSPEC = 'URINE' AND AQLFL='Y'
  AND &prd.;
  if trtpn=4 and sexc='Male' then trt=1;
  else if trtpn=4 and sexc='Female' then trt=2;
  else if trtpn=5 and sexc='Male' then trt=3;
  else if trtpn=5 and sexc='Female' then trt=4;
  else if trtpn=3 and sexc='Male' then trt=5;
  else if trtpn=3 and sexc='Female' then trt=6;
run;

data adbx;
  set adbx1;
  if ablfl='Y' then avisit='Baseline';
  if avisit='Day 0' then delete;
  if ablfl='Y' then do; avisit='Baseline'; avisitn=100; end;
run;

proc means data=adbx noprint nway;
  var &var.;
  class &class. trt;
  output out=rs01 n=n1;
run;

*** 8-4-2015 John email: base the percentages for the BLOQ, n (%) rows in all tables on the n used
in the summary statistics rather than the N in the column header.***;
data adbx01;
  set adam.adbx;
  where anl02f1='Y' AND PARCAT1 = 'BIOMARKERS' AND PARAMCD in ('UNNALCRE') AND LBSPEC = 'URINE'
  AND &prd.;
  if trtpn=4 and sexc='Male' then trt=1;
  else if trtpn=4 and sexc='Female' then trt=2;
  else if trtpn=5 and sexc='Male' then trt=3;
  else if trtpn=5 and sexc='Female' then trt=4;
  else if trtpn=3 and sexc='Male' then trt=5;
  else if trtpn=3 and sexc='Female' then trt=6;
run;

data adbx00;
  set adbx01;
  if ablfl='Y' then avisit='Baseline';
  if avisit='Day 0' then delete;
  if ablfl='Y' then do; avisit='Baseline'; avisitn=100; end;
run;

proc means data=adbx00 noprint nway;
  var &var.;
  class &class. trt;
  output out=rs00(drop=_type_ _freq_) n=_n1;
run;

data rs02;
  merge rs01 rs00(in=a);
  by PARAMCD PARAM avisitn avisit trt;
  if a;
run;

data rs03;
  set rs02;
  attrib bloq length=$20. ;

  if n1=. then bloq="";
  else bloq=strip(put(n1, 8.)) || ' (' || strip(put((n1*100)/_n1, 8.1)) || "%)";
run;

proc transpose data=rs03 out=rs04 prefix=r name=varname;
  by PARAMCD PARAM avisitn avisit;
  var bloq ;
  id trt;
run;

data &out.;
  set rs04;
  length stat $200;
  if upcase(varname)='BLOQ' then do; statord=3; stat='BLOQ, n (%)'; end;

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*delete if BLOQ are missing for all the trt;
if r1="" and r2="" and r3="" and r4="" and r5="" and r6="" then delete;

*format missing cell to 0 per John email on 8-5-2015;
if r1="" then r1="0";
if r2="" then r2="0";
if r3="" then r3="0";
if r4="" then r4="0";
if r5="" then r5="0";
if r6="" then r6="0";
run;
%mend mmeans;

%mmeans(pfl=(PPROT1FL='Y'), prd=(PPROT1FL='Y' and avisitn in ('Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4' 'Day 5')), class=PARAMCD PARAM
avisitn avisit, var=aval, out=out_bq1);
%mmeans(pfl=(PPROT4FL='Y'), prd=(PPROT4FL='Y' and (ablfl='Y' or avisitn='Day 90')), class=PARAMCD PARAM avisitn avisit, var=aval, ou
t=out_bq4);

/*macro to set together for each period ;*/
%macro mfinp(dsn=, dsnbq=, dsng=, dsnc=, out=);
data out1;
  retain PARAMCD PARAM avisitn avisit tp stat r1 r2 r3 r4 r5 r6 statord statord1 ;
  set &dsn.(in=p) &dsnbq.(in=bq) &dsng.(in=g) &dsnc.(in=c) ;
  if p or bq or g then statord1=1;
  if c then do; statord1=2; avisitn=%nrstr("%Change from baseline to ")|| propcase(avisit); end;
  tp=avisit;

/* ***delete <missing, n(%)> if no missing n for the row;*/
  if stat="Missing, n (%)" and r1="" and r2="" and r3="" and r4="" and r5="" and r6="" then delete;

  *** 8/5/2015 email from John:
  presentation of Missing and BLOQ rows in all tables where those rows exist. If in a given row a treatment group has no
  such values (but at least 1 other treatment group does) then present 0 as applicable. ***;

  if stat="Missing, n (%)" then do;
    if r1="" then r1="0";
    if r2="" then r2="0";
    if r3="" then r3="0";
    if r4="" then r4="0";
    if r5="" then r5="0";
    if r6="" then r6="0";
  end;

  keep PARAMCD PARAM avisitn avisit statord tp stat r1 r2 r3 r4 r5 r6 statord1;
run;

proc sort data = out1 out=&out.;
  by PARAMCD PARAM avisitn statord1 statord;
run;
%mend mfinp;

%mfinp(dsn=out_p1, dsnbq=out_bq1, dsng=out_g1, dsnc=out_c1, out=finalp1);
%mfinp(dsn=out_p4, dsnbq=out_bq4, dsng=out_g4, dsnc=out_c4, out=finalp4);

/*create final dataset per mock;*/
data final;
  set finalp1(in=p1) finalp4(in=p4) ;
  if p1 then period="1";
  if p4 then period="4";

  array rr{6} r1 r2 r3 r4 r5 r6;
  do i=1 to 6;
    if rr{i}="0(0.0)" then rr{i}='';
  end;
run;

*****;
*create new page for each timepoint for report ;
*****;
proc sql;
  create table page as
  select distinct period, avisitn, statord1, tp
  from final
  order by period, avisitn, statord1, tp;
quit;

data page1;

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set page;
by period avisitn statord1 tp;
if _n_ = 0 then page = 0;
page + 1;
run;

proc sql;
create table final_page as
select distinct a.*, b.page
from final as a
left join page1 as b
on a.avisitn=b.avisitn and a.tp = b.tp and a.period=b.period and a.statord1=b.statord1
order by period, page, avisitn, avisit, statord1, statord;
quit;

data final_page(rename=(r1=THSm_m r2=THSm_f r3=mCC_m r4=mCC_f r5=SA_m r6=SA_f));
set final_page end=last;
by period page avisitn statord1 statord;
if last then call symputx("page", page);
run;

/*output report data; */
%let tflno=T_15_02_04_05_01_01;
data tfls.&tflno(keep=PARAMCD PARAM avisitn avisit tp stat statord THSm_m mCC_m SA_m THSm_f mCC_f SA_f period page);
set final_page;
run;

*****;
*create output report ;
*****;

/*get N for each period for column header*/
proc sql;

select count(distinct usubjid) into: N1THS1 from adam.adsl(where=(trt01pn = 4 and pprot1fl = "Y" and sexc='Male'));
select count(distinct usubjid) into: N1THS2 from adam.adsl(where=(trt01pn = 4 and pprot1fl = "Y" and sexc='Female'));
select count(distinct usubjid) into: N1MCC1 from adam.adsl(where=(trt01pn = 5 and pprot1fl = "Y" and sexc='Male'));
select count(distinct usubjid) into: N1MCC2 from adam.adsl(where=(trt01pn = 5 and pprot1fl = "Y" and sexc='Female'));
select count(distinct usubjid) into: N1SAA1 from adam.adsl(where=(trt01pn = 3 and pprot1fl = "Y" and sexc='Male'));
select count(distinct usubjid) into: N1SAA2 from adam.adsl(where=(trt01pn = 3 and pprot1fl = "Y" and sexc='Female'));

select count(distinct usubjid) into: N4THS1 from adam.adsl(where=(trt01pn = 4 and pprot4fl = "Y" and sexc='Male'));
select count(distinct usubjid) into: N4THS2 from adam.adsl(where=(trt01pn = 4 and pprot4fl = "Y" and sexc='Female'));
select count(distinct usubjid) into: N4MCC1 from adam.adsl(where=(trt01pn = 5 and pprot4fl = "Y" and sexc='Male'));
select count(distinct usubjid) into: N4MCC2 from adam.adsl(where=(trt01pn = 5 and pprot4fl = "Y" and sexc='Female'));
select count(distinct usubjid) into: N4SAA1 from adam.adsl(where=(trt01pn = 3 and pprot4fl = "Y" and sexc='Male'));
select count(distinct usubjid) into: N4SAA2 from adam.adsl(where=(trt01pn = 3 and pprot4fl = "Y" and sexc='Female'));

quit;

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;

%macro outrtf(blankn=130, halfblnk=N);
%let title1 = %str (Table 15.2.4.5.1.1 Descriptive Statistics of Total NNAL Urinary Concentration Adjusted for Creatinine (pg/mg cre
at) in 24-hour Urine Collection by Sex - PP Set);

%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,""));
call symput('TFLprg',reverse(scan(strip(reverse(compress(&_SASPROGRAMFILE,"")),1,"/"))));
run;

%if &halfblnk=N %then %let halfblnk=;
%else %if &halfblnk=Y %then %let halfblnk=-;

ods path stdlib.t106343 (read) ;
ods results off;
ods rtf toc_data file="/cvn/projects/prj/data/000000106343/TFL/&TFL_Part./Tables/&tflno..rtf" style=t106343 startpage=yes headery=14
40 footery=1440 ;
ods noproctitle;

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%do i=1 %to &page;
  title ;
  footnote;
  %let wd=0;
  ods proclabel = ' ';

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

  if _n_ =1 then
  do;
    call symput('title2', "Product Use Time Period: Period " || Period );
    *create trt1/trt2/trt3 N for each period for column header;
    if period="1" then do;
      call symput('trt1', strip(put(&N1THS1., best.)));
      call symput('trt2', strip(put(&N1THS2., best.)));
      call symput('trt3', strip(put(&N1MCC1., best.)));
      call symput('trt4', strip(put(&N1MCC2., best.)));
      call symput('trt5', strip(put(&N1SAA1., best.)));
      call symput('trt6', strip(put(&N1SAA2., best.)));
    end;

    else if period="4" then do;
      call symput('trt1', strip(put(&N4THS1., best.)));
      call symput('trt2', strip(put(&N4THS2., best.)));
      call symput('trt3', strip(put(&N4MCC1., best.)));
      call symput('trt4', strip(put(&N4MCC2., best.)));
      call symput('trt5', strip(put(&N4SAA1., best.)));
      call symput('trt6', strip(put(&N4SAA2., best.)));
    end;
  end;

  /* 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.)));
end;
drop _firtitl _upcas len;
run;

ods listing close;

proc report data = comp headline headskip nowd split = '$' %if &i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;
column tp stat ("THSm2.2&linebot" THSm_m THSm_f )
        ("mCC&linebot" mCC_m mCC_f)
        ("SA&linebot" SA_m SA_f);
define tp          /"Timepoint" order order=internal style={just=left cellwidth=0.9cm} style(header)={just=left} ;
define stat        /"Statistic" display style={just=left cellwidth=1.9cm} style(header)={just=left} ;
define THSm_m      /"Males$(N=&trt1)" display style={just=c cellwidth=1.2cm} style(header)={just=center} ;
define mCC_m       /"Males$(N=&trt3)" display style={just=c cellwidth=1.2cm} style(header)={just=center} ;
define SA_m        /"Males$(N=&trt5)" display style={just=c cellwidth=1.2cm} style(header)={just=center};
define THSm_f      /"Females$(N=&trt2)" display style={JUST=c cellwidth=1.15cm} style(header)={just=center};
define mCC_f       /"Females$(N=&trt4)" display style={just=c cellwidth=1.15cm} style(header)={just=center};
define SA_f        /"Females$(N=&trt6)" display style={just=c cellwidth=1.15cm} style(header)={just=center};

compute after tp;
  line " ";
endcomp;

compute before _page_ / style={just=left protectspecialchars=off};
  line "\b\fs24\s24&_FSRTITL." ; * \b = bold, \fs24 is font size 12pt, \sa24 is space after 12pt;
  line " ";
  line "\b\fs24\s24&title2." ;
  line "&linebot";
endcomp;

%let line3=%NRBQUOTE(Note: 'Missing' percentages are based on the number of subjects indicated in the column header (N), while '
BLOQ' percentages are based on the number of subjects being summarized (n).);
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 m
CC / THS 2.2 Menthol arms or the last assessment prior to 10AM on Day 1 in the SA arm.';
  line "&line3.";

```

```
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=36, halfblnk=N);
ods listing;

%m_logchk;

/***** END OF FILE t_nnal_sex.sas *****/
```