

/*-----

Covance Study ID : COV-000000106343

Program Name : t_vs_bwvc_pp.sas

Purpose : Table 15.2.4.33.1(Descriptive Statistics of Body weight (kg) and waist circumference (cm) - PP Set;

Author : cvn_pshe

Date of Creation : 22APR2015

Input Data : ADAM.ADSL, ADAM.ADVS

Output Data :

Macros Called :

Modification History

Modified by :

Modification Date :

Modification Description:

-----*/

proc datasets lib=work kill memtype=data nolist;

run;

%m_printto;

options notes nosource;

options mprint symbolgen;

```
options replace;
```

```
options notes source source2 nofullstimer validvarname=upcase missing=' ';
```

```
ods _all_ close;
```

```
ods listing;
```

```
*=====;
```

```
* START OF PROGRAM CODE ;
```

```
*=====;
```

```
%let tflno=T_15_02_04_33_01;
```

```
%let TFL_Part=%scan(&_amp;_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;
```

```
*****,
```

```
* read in data ;
```

```
*****,
```

```
/*Use ADSL to get N values for column headers*/
```

```

%macro trt(period= );

%global N&period.THS;

%global N&period.MCC;

%global N&period.SAA;

proc sql;

select count(distinct usubjid) into: N&period.THS from adam.adsl(where=(trt01an = 4 and
pprot&period.fl = "Y"));

select count(distinct usubjid) into: N&period.MCC from adam.adsl(where=(trt01an = 5 and
pprot&period.fl = "Y"));

select count(distinct usubjid) into: N&period.SAA from adam.adsl(where=(trt01an = 3 and
pprot&period.fl = "Y"));

quit;

%mend;

/*Bring in sbp and dbp raw value data from ADVS*/;

%macro rawval (period=, avisit=, parmcd=,parm=, num=);

%trt(period=&period.);

data advs_bp&period.;

    set adam.advs(where=(anl01fl='Y' and pprot&period.fl='Y' and paramcd in ("&parmcd") and
&avisit));

run;

data advs_bp&period. ;

    set advs_bp&period. ;

    if ablfl = 'Y' then do; avisit='Baseline'; avisitn=98; end;

```

```

        if avisit='Screening' and ablfl =" then delete;

        else if avisit='Day -2' and ablfl =" then delete;

        else if avisit='Day -1' and ablfl =" then delete;

        else if avisit='Day 0' and ablfl =" then delete;

run;


proc sort data=advs_bp&period. ;

    by trtan trta avisitn avisit;

run;


proc means data=advs_bp&period. noprint;

    where ablfl ='Y' or avisitn in (106 130 160 191);

    var aval;

    by trtan trta avisitn avisit;

    output out=bpstat&period. n=n1 mean=mean1 std=sd1 median=median1 min=min1 max=max1
    q1=q1 q3=q3 lclm =lci1 uclm=uci1;

run;


data bpstat&period._&parmcd ;

    set bpstat&period. (rename=(mean1=mean lci1=lclm uci1=uclm)) ;

        paramcd="&parmcd";

    keep  paramcd trta trtan avisit avisitn mean lclm uclm;

run;


data bpstat&period.;

    set bpstat&period.;

```

attrib meansd minmax n median missc quart length=\$20.;

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

if &num=2 then do;

*for <missing, n(%)>;

if trtan=3 then do;

if &&N&period.SAA.=n1

then missc="";

else

missc=strip(put((&&N&period.SAA.- n1), 8.)) || ' (' || strip(put(((&&N&period.SAA.-
n1)*100)/&&N&period.SAA, 8.1)) || " ");

end;

else if trtan=4 then do;

if &&N&period.THS.=n1

then missc="";

else

missc=strip(put((&&N&period.THS.- n1), 8.)) || ' (' || strip(put(((&&N&period.THS.-
n1)*100)/&&N&period.THS., 8.1)) || " ");

end;

else if trtan=5 then do;

if

&&N&period.MCC.=n1 then missc="";

else

missc=strip(put((&&N&period.MCC.-n1), 8.)) || ' (' || strip(put(((&&N&period.MCC.-
n1)*100)/&&N&period.MCC., 8.1)) || " ");

end;

```
IF NOT MISSING(MEDIAN1) THEN MEDIAN =  
LEFT(COMPRESS(PUT(ROUND(MEDIAN1,0.1),10.1)));
```

```
IF NOT MISSING(MEAN1) AND NOT MISSING(SD1) THEN meansd =  
LEFT(COMPRESS(PUT(ROUND(MEAN1,0.1),10.1))) || " (" || STRIP(PUT(0.01*CEIL(SD1/0.01),10.2)) || ")";
```

```
IF NOT MISSING(MIN1) AND NOT MISSING(MAX1) THEN minmax = strip(put(min1, 10.)) || "  
" || strip(put(max1, 10.));
```

```
IF NOT MISSING(Q1) AND NOT MISSING(Q3) THEN QUART =  
LEFT(COMPRESS(PUT(ROUND(Q1,0.1),10.1))) || ' ' || LEFT(COMPRESS(PUT(ROUND(Q3,0.1),10.1)));;
```

```
IF NOT MISSING(LCI1) AND NOT MISSING(UCI1) THEN ACI = STRIP(PUT(0.1*FLOOR(LCI1/0.1),10.1)) || '  
' || STRIP(PUT(0.1*CEIL(UCI1/0.1),10.1));
```

```
end;
```

```
else if &num=1 then do;
```

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

```
*for <missing, n(%)>;
```

```
if trtan=3 then do;
```

```
if &&N&period.SAA.=n1
```

```
then missc="";
```

```
else
```

```
missc=strip(put((&&N&period.SAA.- n1), 8.)) || ' (' || strip(put(((&&N&period.SAA.-  
n1)*100)/&&N&period.SAA, 8.1)) || ")";
```

```
end;
```

```
else if trtan=4 then do;
```

```
if &&N&period.THS.=n1
```

```
then missc="";
```

```
else
```

```
missc=strip(put((&&N&period.THS.- n1), 8.)) || ' (' || strip(put(((&&N&period.THS.-  
n1)*100)/&&N&period.THS., 8.1)) || ")";
```

```
end;
```

```

else if trtan=5 then do;

if
&&N&period.MCC.=n1 then missc="";

else
missc=strip(put((&&N&period.MCC.-n1), 8.)) || ' (' || strip(put(((&&N&period.MCC.-
n1)*100)/&&N&period.MCC., 8.1)) || "%");

end;

IF NOT MISSING(MEDIAN1) THEN MEDIAN =
LEFT(COMPRESS(PUT(ROUND(MEDIAN1,0.01),10.2)));

IF NOT MISSING(MEAN1) AND NOT MISSING(SD1) THEN meansd =
LEFT(COMPRESS(PUT(ROUND(MEAN1,0.01),10.2))) || "
(" || STRIP(PUT(0.001*CEIL(SD1/0.001),10.3)) || "%)";

IF NOT MISSING(MIN1) AND NOT MISSING(MAX1) THEN minmax = strip(put(min1, 10.1)) || ",
" || strip(put(max1, 10.1));

IF NOT MISSING(Q1) AND NOT MISSING(Q3) THEN QUART =
LEFT(COMPRESS(PUT(ROUND(Q1,0.01),10.2))) || ', ' || LEFT(COMPRESS(PUT(ROUND(Q3,0.01),10.2))));

IF NOT MISSING(LCI1) AND NOT MISSING(UCI1) THEN ACI = STRIP(PUT(0.01*FLOOR(LCI1/0.01),10.2))
|| ', ' || STRIP(PUT(0.01*CEIL(UCI1/0.01),10.2));

end; drop n1 mean1 sd1 median1 min1 max1 q1 q3 lci1 uci1 _type__freq_;

run;

proc sort data=bpstat&period.;

by trtan trta avisitn avisit;

run;

proc transpose data=bpstat&period. out=t_bpstat&period.;

by trtan trta avisitn avisit;

var n missc meansd minmax median quart aci;

run;

```

```

data sa&period. ths&period. mcc&period.;

length stat rawval $50;

set t_bpstat&period. (drop=trtan rename=(_name_=stat col1=rawval)) ;

        if trta='SA' then output sa&period.;

        else if trta='THSm2.2' then output ths&period.;

        else if trta='mCC' then output mcc&period.;

run;


proc sort data=sa&period. (rename=(rawval=saval)) ;

    by avisitn avisit stat;

run;

proc sort data=ths&period. (rename=(rawval=thsva));

    by avisitn avisit stat;

run;

proc sort data=mcc&period. (rename=(rawval=mccval));

    by avisitn avisit stat;

run;


data stat_&parm._&period.;

merge sa&period. (drop=trta ) ths&period. (drop=trta) mcc&period.;

        by avisitn avisit stat;

        if stat='N' then do; stat='n'; sort=1; end;

        else if stat='MISSC'      then do; stat='Missing, n(%)'; sort=2; end;

else if stat='MEANS'D then do; stat='Mean (SD)'; sort=2.2; end;

```



```

else if stat='ACI' then do; stat='95% CI'; sort=3; end;

else if stat='MEDIAN' then do; stat='Median'; sort=4; end;

else if stat='QUART' then do; stat='Q25, Q75'; sort=5; end;

else if stat='MINMAX' then do; stat='Min, Max'; sort=6; end;

order=&num;

period=&period;

run;

%mend rawval;

%rawval (period=1, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4'
'Day 5' 'Day 6/Discharge Confinement')), parmcd=WEIGHT,parm=sbp, num=1);

%rawval (period=2, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 30')),
parmcd=WEIGHT,parm=sbp, num=1);

%rawval (period=3, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 60')),
parmcd=WEIGHT,parm=sbp, num=1);

%rawval (period=4, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 91/Discharge
Ambulatory' )), parmcd=WEIGHT,parm=sbp, num=1);

%rawval (period=1, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4'
'Day 5' 'Day 6/Discharge Confinement')),parmcd=WSTCIR,parm=dbp, num=2);

%rawval (period=2, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 30')),
parmcd=WSTCIR,parm=dbp, num=2);

%rawval (period=3, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 60')),
parmcd=WSTCIR,parm=dbp, num=2);

%rawval (period=4, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 91/Discharge
Ambulatory' )), parmcd=WSTCIR,parm=dbp, num=2);

data stat_bp ;;

set stat_sbp_1 stat_sbp_2 stat_sbp_3 stat_sbp_4 /*stat_dbp_1 stat_dbp_2 stat_dbp_3*/ stat_dbp_4;

```

```
run;
```

```
proc sort data=stat_bp;
```

```
by order period avisitn avisit sort;
```

```
run;
```

```
data stat_bwwc_pp ;
```

```
length param $50;
```

```
set bpstat1_weight (where=(avisitn in (98)))
```

```
/* bpstat2_weight (where=(avisitn in (130)))*/
```

```
/* bpstat3_weight (where=(avisitn in (160)))*/
```

```
bpstat4_weight (where=(avisitn in (191)))
```

```
bpstat1_wstcir (where=(avisitn in (98)))
```

```
/* bpstat2_wstcir (where=(avisitn in (130)))*/
```

```
/* bpstat3_wstcir (where=(avisitn in (160)))*/
```

```
bpstat4_wstcir (where=(avisitn in (191)));
```

```
if paramcd='WEIGHT' then do; paramn = 1015; param='Weight (kg)'; end;
```

```
else if paramcd='WSTCIR' then do; paramn = 1026; param='Waist Circumference  
(cm)'; end;
```

```
logf=0;
```

```
run;
```

```
%m_chglength(inds=stat_bwwc_pp,varlist=param paramcd, lenlist= $60 $8);
```

```
proc sort data=stat_bwwc_pp out=tflds.T_15_02_04_33_01_f;
```

```

    by paramn avisitn ;

run;

/*Bring in sbp and dbp percent change data from ADVS*/

%macro pchgval (period=, avisit=, parmcd=,parm=, num=);

data advs_bp&period.;

    set adam.advs(where=(anl01fl='Y' and pprot&period.fl='Y' and parmcd in ("&parmcd") and
&avisit ));

run;

data advs_bp&period. ;

    set advs_bp&period. ;

        if ablfl ='Y' then do; avisit='Baseline'; avisitn=98; end;

        if avisit='Screening' and ablfl =" then delete;

        else if avisit='Day -2' and ablfl =" then delete;

        else if avisit='Day -1' and ablfl =" then delete;

        else if avisit='Day 0' and ablfl =" then delete;

run;

proc sort  data=advs_bp&period. ;

    by trtan trta avisitn avisit;

run;

proc means data=advs_bp&period. noprint;

    where ablfl ='Y' or avisitn in (106 130 160 191);

    var pchg;

```

```

by trtan trta avisitn avisit;

output out=pbpstat&period. n=n1 mean=mean1 std=sd1 median=median1 min=min1 max=max1
q1=q1 q3=q3 lclm =lci1 uclm=uci1;

run;

data pbpstat&period.;

set pbpstat&period.;

attrib meansd minmax n median missc quart length=$20.;

if &num=2 then do;

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

*for <missing, n(%>;

if trtan=3 then do;

if &&N&period.SAA.=n1

then missc="";

else

missc=strip(put((&&N&period.SAA.- n1), 8.)) || ' (' || strip(put(((&&N&period.SAA.-
n1)*100)/&&N&period.SAA, 8.1)) || " ");

end;

else if trtan=4 then do;

if &&N&period.THS.=n1

then missc="";

else

missc=strip(put((&&N&period.THS.- n1), 8.)) || ' (' || strip(put(((&&N&period.THS.-
n1)*100)/&&N&period.THS., 8.1)) || " ");

end;

else if trtan=5 then do;

if

&&N&period.MCC.=n1 then missc="";

```

```

else
missc=strip(put((&&N&period.MCC.-n1), 8.)) || ' (' || strip(put(((&&N&period.MCC.-
n1)*100)/&&N&period.MCC., 8.1)) || ")";

```

```

end;

```

```

IF NOT MISSING(MEDIAN1) THEN MEDIAN =
LEFT(COMPRESS(PUT(ROUND(MEDIAN1,0.1),10.1)));

```

```

IF NOT MISSING(MEAN1) AND NOT MISSING(SD1) THEN meansd =
LEFT(COMPRESS(PUT(ROUND(MEAN1,0.1),10.1))) || " (" || STRIP(PUT(0.01*CEIL(SD1/0.01),10.2)) || ")";

```

```

IF NOT MISSING(MIN1) AND NOT MISSING(MAX1) THEN minmax = strip(put(min1, 10.)) || ",
" || strip(put(max1, 10.));

```

```

IF NOT MISSING(Q1) AND NOT MISSING(Q3) THEN QUART =
LEFT(COMPRESS(PUT(ROUND(Q1,0.1),10.1))) || ', ' || LEFT(COMPRESS(PUT(ROUND(Q3,0.1),10.1)));;

```

```

IF NOT MISSING(LCI1) AND NOT MISSING(UCI1) THEN ACI = STRIP(PUT(0.1*FLOOR(LCI1/0.1),10.1)) || ',
' || STRIP(PUT(0.1*CEIL(UCI1/0.1),10.1));

```

```

end;

```

```

else if &num=1 then do;

```

```

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

```

```

*for <missing, n(%)>;

```

```

if trtan=3 then do;

```

```

if &&N&period.SAA.=n1

```

```

then missc="";

```

```

else

```

```

missc=strip(put((&&N&period.SAA.- n1), 8.)) || ' (' || strip(put(((&&N&period.SAA.-
n1)*100)/&&N&period.SAA, 8.1)) || ")";

```

```

end;

```

```

else if trtan=4 then do;

```

```

if &&N&period.THS.=n1

```

```

then missc="";

```

```

else
missc=strip(put((&N&period.THS.- n1), 8.)) || ' (' || strip(put((((&N&period.THS.-
n1)*100)/&N&period.THS., 8.1)) || "));

```

```

end;

```

```

else if trtan=5 then do;

```

```

if

```

```

&N&period.MCC.=n1 then missc="";

```

```

else

```

```

missc=strip(put((&N&period.MCC.-n1), 8.)) || ' (' || strip(put((((&N&period.MCC.-
n1)*100)/&N&period.MCC., 8.1)) || "));

```

```

end;

```

```

IF NOT MISSING(MEDIAN1) THEN MEDIAN =
LEFT(COMPRESS(PUT(ROUND(MEDIAN1,0.01),10.2)));

```

```

IF NOT MISSING(MEAN1) AND NOT MISSING(SD1) THEN meansd =
LEFT(COMPRESS(PUT(ROUND(MEAN1,0.01),10.2))) || "
(" || STRIP(PUT(0.001*CEIL(SD1/0.001),10.3)) || "));

```

```

IF NOT MISSING(MIN1) AND NOT MISSING(MAX1) THEN minmax = strip(put(min1, 10.1)) || ",
" || strip(put(max1, 10.1));

```

```

IF NOT MISSING(Q1) AND NOT MISSING(Q3) THEN QUART =
LEFT(COMPRESS(PUT(ROUND(Q1,0.01),10.2))) || ', ' || LEFT(COMPRESS(PUT(ROUND(Q3,0.01),10.2))));

```

```

IF NOT MISSING(LCI1) AND NOT MISSING(UCI1) THEN ACI = STRIP(PUT(0.01*FLOOR(LCI1/0.01),10.2))
|| ', ' || STRIP(PUT(0.01*CEIL(UCI1/0.01),10.2));

```

```

end;

```

```

drop n1 mean1 sd1 median1 min1 max1 q1 q3 lci1 uci1 _type_ _freq_;

```

```

run;

```

```

proc sort data=pbpstat&period.;

```

```

by trtan trta avisitn avisit;

```

```

run;

```

```

proc transpose data=pbpstat&period. out=t_pbpstat&period.;

  by trtan trta avisitn avisit;

      var n missc meansd minmax median quart aci;

run;

data psa&period. pths&period. pmcc&period.;

  length stat pchg $50;

  set t_pbpstat&period. (drop=trtan rename=( _name_ =stat col1=pchg)) ;

      if trta='SA' then output psa&period.;

      else if trta='THSm2.2' then output pths&period.;

      else if trta='mCC' then output pmcc&period.;

run;

proc sort data=psa&period. (rename=(pchg=sapchg));

  by avisitn avisit stat;

run;

proc sort data=pths&period. (rename=(pchg=thspchg));

  by avisitn avisit stat;

run;

proc sort data=pmcc&period. (rename=(pchg=mccpchg));

  by avisitn avisit stat;

run;

data stat_&parm._&period.;

```

```

merge psa&period. (drop=trta) pths&period. (drop=trta) pmcc&period.;

    by avisitn avisit stat;

    if stat='N' then do; stat='n'; sort=1; end;

    else if stat='MISSC'      then do; stat='Missing, n(%)'; sort=2; end;

else if stat='MEANSD' then do; stat='Mean (SD)'; sort=2.2; end;

    else if stat='ACI' then do; stat='95% CI'; sort=3; end;

    else if stat='MEDIAN' then do; stat='Median'; sort=4; end;

    else if stat='QUART' then do; stat='Q25, Q75'; sort=5; end;

    else if stat='MINMAX' then do; stat='Min, Max'; sort=6; end;

    order=&num;

    period=&period;

run;

%mend;

%pchgval (period=1, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4'
'Day 5' 'Day 6/Discharge Confinement')), parmcd=WEIGHT, parm=sbppchg, num=1);

%pchgval (period=2, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 30')), parmcd=WEIGHT,
parm=sbppchg, num=1);

%pchgval (period=3, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 60')), parmcd=WEIGHT,
parm=sbppchg, num=1);

%pchgval (period=4, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 91/Discharge
Ambulatory' )),parmcd=WEIGHT, parm=sbppchg, num=1);

%pchgval (period=1, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4'
'Day 5' 'Day 6/Discharge Confinement')), parmcd=WSTCIR, parm=dbppchg, num=2);

%pchgval (period=2, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 30')), parmcd=WSTCIR,
parm=dbppchg, num=2);

%pchgval (period=3, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 60')), parmcd=WSTCIR,
parm=dbppchg, num=2);

```



```
%pchgval (period=4, avisit=%str(avisit in ('Screening' 'Day -2' 'Day -1' 'Day 0' 'Day 91/Discharge  
Ambulatory' )), parmcd=WSTCIR, parm=dbppchg, num=2);
```

```
data stat_bppchg ;
```

```
    set stat_sbppchg_1 stat_sbppchg_2 stat_sbppchg_3 stat_sbppchg_4 /*stat_dbppchg_1  
stat_dbppchg_2 stat_dbppchg_3*/ stat_dbppchg_4;
```

```
run;
```

```
proc sort data=stat_bppchg nodupkey;
```

```
    by order period avisitn avisit sort;
```

```
run;
```

```
data stat;
```

```
    merge stat_bp (drop=stat trta) stat_bppchg;
```

```
        by order period avisitn avisit sort;
```

```
        length param $100 ths mcc sa $8;
```

```
if period =1 then do; ths="&N1THS"; mcc="&N1MCC"; sa="&N1SAA"; end;
```

```
if period =2 then do; ths="&N2THS"; mcc="&N2MCC"; sa="&N2SAA"; end;
```

```
if period =3 then do; ths="&N3THS"; mcc="&N3MCC"; sa="&N3SAA"; end;
```

```
if period =4 then do; ths="&N4THS"; mcc="&N4MCC"; sa="&N4SAA"; end;
```

```
    if sapchg='0' then sapchg="";
```

```
        if thspchg='0' then thspchg="";
```

```
        if mccpchg='0' then mccpchg="";
```

```

/*          if avisitn=98 then avisit='Baseline';*/

if order=1 then param='Body weight (kg)';

else if order=2 then param='Waist circumference (cm)';

    if sort=. then delete;

        if stat='Missing, n(%)' and avisit='Baseline' then do;

            if saval="" then saval='0';

                if mccval="" then mccval='0';

                    if thsval="" then thsval='0';

                        sapchg="";

                        mccpchg="";

                        thspchg="";

                    end;

                else if stat='Missing, n(%)' and avisit ^= 'Baseline' then do;

                    if saval="" then saval='0';

                        if mccval="" then mccval='0';

                            if thsval="" then thsval='0';

                                if sapchg="" then sapchg='0';

                                    if mccpchg="" then mccpchg='0';

                                        if thspchg="" then thspchg='0';

                                    end;

                                end;

                            if avisit='Baseline' and saval='0' and mccval='0' and thsval='0' then delete;

                                if avisit^='Baseline' and saval='0' and mccval='0' and thsval='0' and sapchg='0'
and mccpchg='0' and thspchg='0' then delete;

```

```
run;
```

```
* output dataset*;
```

```
proc sql noprint;
```

```
    create table tflds.&tflno as
```

```
    select param as parameter, avisit as timepoint, stat, thsval, thspchg, mccval, mccpchg, saval,  
sapchg
```

```
    from stat
```

```
    order by param, order, period, avisitn, sort;
```

```
quit;
```

```
data paging;
```

```
    set stat;
```

```
    by order period avisitn sort ;
```

```
    if first.avisitn then ln=1; /*Amend to look presentable, and avoid page overflows*/
```

```
    else ln+1;
```

```
    if ln=1 then page+1;
```

```
    call symput("page",compress(put(page,best.)));
```

```
run;
```

```
data paging;
```

```
    set paging;
```

```
        by page;
```

```
            if first.page then param=param;
```

```
            else param=";
```

```
run;
```

```
options number nodate orientation=landscape papersize=Letter /*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;
```

```
%macro outrtf(blankn=, halfblnk=);
```

```
%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/* contents*/
```

```
file="/cvn/projects/prj/data/000000106343/TFL/&TFL_Part./Tables/&tflno..rtf" style=t106343
```

```
startpage=yes headery=1440 footery=1440 ;
```

```
ods noproctitle;
```

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

```
title ;
```

```
footnote;
```

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

```
data comp;
```

```
set paging end=eof;
```

where page=&i;

/* Amend title as needed */

_firtitl="Table 15.2.4.33.1 Descriptive Statistics of Body weight (kg) and waist circumference (cm) - PP Set";

_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('perid', strip(put(period, best8.)));

call symput('N3', strip(sa));

call symput('N4', strip(th));

call symput('N5', strip(mcc));

end;

drop _firtitl _upcas len;

run;

ods proclabel = ' ';

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 headline headskip nowd split = '#' %if &i=1 %then %do; contents=' ' %end;
%else %do; contents="" %end;;

        column order page avisitn param avisit stat

                ("THSm2.2#(N=&N4)&linebot" thsval thspchg) ("mCC#(N=&N5)&linebot" mccval
mccpchg) ("SA#(N=&N3)&linebot" saval sapchg);


        define order      / order order = internal noprint;

define page      / order order = internal noprint;

define avisitn    / order order=internal noprint;


define param      / "Parameter (units)" style={just=left cellwidth=3.2cm} style(header)={just=left} ;

                define avisit      / group "Timepoint" style={just=left cellwidth=2.7cm}
style(header)={just=left} ;

define stat      / display "Statistic" style={just=left cellwidth=2.2cm} style(header)={just=left} ;

define thsval      / display "Raw value" style={just=c cellwidth=2.2cm} ;

define thspchg      / display "% Change(*)" style={just=c cellwidth=2.2cm} ;

define mccval      / display "Raw value" style={just=c cellwidth=2.2cm} ;

define mccpchg      / display "% Change(*)" style={just=c cellwidth=2.2cm} ;

define saval      / display "Raw value" style={just=c cellwidth=2.2cm} ;

define sapchg      / display "% Change(*)" style={just=c cellwidth=2.2cm} ;


        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 " ";

            line "Product Use Time Period: Period &perid.";

        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: Percentages are based on the number of subjects indicated in the column header (N).";

        line 'Note: * % change from baseline, where baseline is defined as the last assessment
prior to first randomized product use in mCC / THS 2.2 Menthol arms or the ';

            line 'last assessment prior to 10 AM on Day 1 in the SA arm.';

        line ' ';

    line "Appendix 15.3.6.12";

        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 ;
```

```
%outtrtf(blankn=36, halfblnk=N);
```

```
ods listing close;
```

```
proc printto ; run;
```

```
%m_logchk;
```

```
*=====;
```

```
* END OF PROGRAM CODE ;
```

```
*=====;
```