

```
/*=====
=====*
```

```
| Covance Study Number   : 000000106343          |
```

```
| Program Name           : t_hst_cig_pp.sas      |
```

```
| Purpose                 : Descriptive stats of HST per cigarette - PP
|
```

```
| Input Data              : ADSL, ADXT           |
```

```
| Output Data             : T_15_02_04_60        |
```

```
| Macros Called           : m_printto, m_logchk   |
```

```
| Originally Performed by : kpothuri             |
```

```
| Date                    : 19MAY2015            |
```

```
|                          |
```

```
|=====
=====|
```

```
| Modification History    |
```

```
|-----|
```

```
| Modified by            |
```

```
| Modification Date      |
```

```
| Modification Description : |
```

```
+=====
=====*/
```

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

```
ods _all_ close;
```

```
ods listing;
```

```
%m_printto(route=YES);
```

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

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

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

```
proc datasets lib=work kill memtype=data nolist;
```

```
run;
```

```
/* Standard - leave this */
```

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

```
/* Standard - leave this */
```

```
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;
```

```
%let tflno=T_15_02_04_60;
```

```
%let title1 = Table 15.2.4.60 Descriptive Statistics of HST Parameters per Cigarette - PP Set;
```

```
*N - counts;
```

```
proc sql;
```

```
select count(distinct usubjid) into: N1THS from adam.adsl(where=(trt01pn = 4 and pprot1fl = "Y"));
select count(distinct usubjid) into: N1MCC from adam.adsl(where=(trt01pn = 5 and pprot1fl = "Y"));
select count(distinct usubjid) into: N1SAA from adam.adsl(where=(trt01pn = 3 and pprot1fl = "Y"));
```

```
select count(distinct usubjid) into: N2THS from adam.adsl(where=(trt01pn = 4 and pprot2fl = "Y"));
select count(distinct usubjid) into: N2MCC from adam.adsl(where=(trt01pn = 5 and pprot2fl = "Y"));
select count(distinct usubjid) into: N2SAA from adam.adsl(where=(trt01pn = 3 and pprot2fl = "Y"));
```

```
select count(distinct usubjid) into: N3THS from adam.adsl(where=(trt01pn = 4 and pprot3fl = "Y"));
select count(distinct usubjid) into: N3MCC from adam.adsl(where=(trt01pn = 5 and pprot3fl = "Y"));
select count(distinct usubjid) into: N3SAA from adam.adsl(where=(trt01pn = 3 and pprot3fl = "Y"));
```

```
select count(distinct usubjid) into: N4THS from adam.adsl(where=(trt01pn = 4 and pprot4fl = "Y"));
select count(distinct usubjid) into: N4MCC from adam.adsl(where=(trt01pn = 5 and pprot4fl = "Y"));
select count(distinct usubjid) into: N4SAA from adam.adsl(where=(trt01pn = 3 and pprot4fl = "Y"));
```

```
quit;
```

```
%put &N1THS &N1MCC &N1SAA;
```

```
data XT_1;
```

```
    set adam.ADXT;
```

```
    where (pprot1fl = "Y" and avisitn in (101,104)) or (pprot2fl = "Y" and avisitn = 130) or (pprot3fl = "Y" and avisitn = 160) or (pprot4fl = "Y" and avisitn = 190);
```

```
    if paramcd in
("ANPC","ATVOL","AAVGVI","AAVGDI","ATDI","AAVGQMI","AAVGQCI","ATII","AAVGII","ATDFI","ATWI",
"AAVGWI"
```

```
    "AAVGPMI","AAVGPCI","ASMINT","APTI","APFEQ");
```

```
run;
```

```
*Baseline to repeat for each period;
```

```
data XT_2;
```

```
set adam.ADXT;
```

```
if paramcd in
```

```
("ANPC","ATVOL","AAVGVI","AAVGDI","ATDI","AAVGQMI","AAVGQCI","ATII","AAVGII","ATDFI","ATWI",  
"AAVGWI"
```

```
    "AAVGPMI","AAVGPCI","ASMINT","APTI","APFEQ");
```

```
if ablfl = "Y" and pprot1fl = "Y" then do;
```

```
    avisitn = 10;
```

```
    avisit = "Baseline";
```

```
    apuper = 1;
```

```
    apuperc = "Period 1";
```

```
    output;
```

```
end;
```

```
if ablfl = "Y" and pprot2fl = "Y" then do;
```

```
    avisitn = 10;
```

```
    avisit = "Baseline";
```

```
    apuper = 2;
```

```
    apuperc = "Period 2";
```

```
    output;
```

```
end;
```

```
if ablfl = "Y" and pprot3fl = "Y" then do;
```

```
    avisitn = 10;
```

```
    avisit = "Baseline";
```

```

apuper = 3;
apuperc = "Period 3";
output;
end;

if ablfl = "Y" and pprot4fl = "Y" then do;

avisitn = 10;

avisit = "Baseline";

apuper = 4;
apuperc = "Period 4";
output;
end;

run;


data XT;

set XT_1 XT_2;

run;

proc sort data=XT;

    by trtpn param paramn apuper apuperc avisitn avisit;

run;


*BLOQ, ALOQ;

data n;

    length txt $200.;

    set XT;

    if index(avalc, "<") > 0 then do;

```

```

    txtn = 3;

    txt = "BLOQ, n(%)";

    output;

    end;

    if index(avalc, ">") > 0 then do;

    txtn = 4;

    txt = "ALOQ, n(%)";

    output;

    end;

run;

proc sort data=n out=n1 nodupkey dupout=dup;

    by usubjid param paramn avisitn txtn;

run;

proc freq data=n1 noprint;

    tables param*paramn*apuper*apuperc*avisitn*avisit*txtn*txt*trtpn/out=n_freq;

run;

data n_freq;

length countx $50.;

    set n_freq;

    countx = strip(put(count, best.));

run;

proc sort data=n_freq;

    by param paramn apuper apuperc avisitn avisit txtn txt;

run;

proc transpose data=n_freq out=n_freq_t prefix=trt_;

```

```
by param paramn apuper apuperc avisitn avisit txtn txt;  
var countx;  
id trtpn;
```

```
run;
```

```
data n_freq_t;
```

```
set n_freq_t;
```

```
where paramn ne .;
```

```
run;
```

```
*value stats;
```

```
proc sort data=XT;
```

```
by trtpn param paramn apuper apuperc avisitn avisit;
```

```
run;
```

```
proc means data=XT(where=(aval ne .)) noprint;
```

```
var aval;
```

```
by trtpn param paramn apuper apuperc avisitn avisit;
```

```
output out=aval n=n mean = mean std = std median = median min = min max = max q1 = q1 q3  
= q3 lclm = lclm uclm = uclm;
```

```
run;
```

```
*figure;
```

```
data tflds.T_15_02_04_60_F;
```

```
length trt $8;
```

```
set aval;
```

```
keep trtpn trt param paramn apuper apuperc avisitn avisit mean lclm uclm;
```

```

    if trtpn=3 then trt="SA";

    if trtpn=4 then trt="THSm2.2";

    if trtpn=5 then trt="mCC";

run;

data aval1;

    set aval;

    array a[9] mean std median min max Q1 Q3 LCLM UCLM;

    do i=1 to 9;

        if n<4 then a[i]=.;

    end;

    if lclm ne . then lclmx = 0.01*floor(100*lclm);

    if uclm ne . then uclmx = 0.01*ceil(100*uclm);

length median1 Q2575 Minmax Meansd CIAM n1 $50.;

    if not missing(median) then median1 = left(compress(put(round(median,0.01),15.2)));

    if not missing(mean) and not missing(std) then meansd = strip(put(round(mean, 0.01), 15.2)) || "
(" || strip(put(0.001*ceil(std/0.001),8.3)) || ")";

    if not missing(min) and not missing(max) then minmax = left(compress(put(round(min, 0.1),
15.1))) || ', ' || left(compress(put(round(max, 0.1), 15.1)));

    if not missing(q1) and not missing(q3) then q2575 = strip(put(round(q1, 0.01), 15.2)) || ",
" || strip(put(round(q3, 0.01), 15.2));

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

```



```
        if not missing(lclm) and not missing(uclm) then ciam = strip(put(lclmx, 15.2))||",  
        "||strip(put(uclmx, 15.2));
```

```
        else if lclm = . and uclm ne . then ciam = "NA, "||strip(put(uclmx, 15.2));
```

```
        else if lclm ne . and uclm = . then ciam = strip(put(lclmx, 15.2))||", NA";
```

```
        else if lclm = . and uclm = . then ciam = "NA, NA";
```

```
run;
```

```
proc sort data=aval1;
```

```
    by param paramn apuper apuperc avisitn avisit;
```

```
run;
```

```
proc transpose data=aval1 out=aval_t prefix= trt_;
```

```
    by param paramn apuper apuperc avisitn avisit;
```

```
    var n1 median1 q2575 minmax meansd ciam;
```

```
    id trtpn;
```

```
run;
```

```
data aval_t;
```

```
length txt $200.;
```

```
    set aval_t;
```

```
    if upcase(_name_) = "N1" then do;
```

```
        txtn = 1;
```

```
        txt = "n";
```

```
    end;
```

```
    else if upcase(_name_) = "MEDIAN1" then do;
```

```
        txtn = 9;
```

```

    txt = "Median";

    end;

    else if upcase(_name_) = "Q2575" then do;

    txtn = 10;

    txt = "Q25, Q75";

    end;

    else if upcase(_name_) = "MINMAX" then do;

    txtn = 11;

    txt = "Min, Max";

    end;

    else if upcase(_name_) = "MEANSD" then do;

    txtn = 7;

    txt = "Mean (SD)";

    end;

    else if upcase(_name_) = "CIAM" then do;

    txtn = 8;

    txt = "95% CI of Mean";

    end;

run;


data aval_f;

    set aval_t n_freq_t;

run;

proc sort data=aval_f;

    by param paramn apuper apuperc avisitn avisit txtn txt;

```

```
run;
```

```
/* change stats;
```

```
proc sort data=XT;
```

```
by trtpn param paramn apuper apuperc avisitn avisit;
```

```
run;
```

```
proc means data=XT(where=(pchg ne . and ablfl ne "Y")) noprint;
```

```
var pchg;
```

```
by trtpn param paramn apuper apuperc avisitn avisit ;
```

```
output out=chg n =n mean = mean std = std median = median min = min max = max q1 = q1 q3 =  
q3 lclm = lclm uclm = uclm;
```

```
run;
```

```
data chg1;
```

```
set chg;
```

```
array a[9] mean std median min max Q1 Q3 LCLM UCLM;
```

```
do i=1 to 9;
```

```
if n<4 then a[i]=.;
```

```
end;
```

```
if lclm ne . then lclmx = 0.01*floor(100*lclm);
```

```
if uclm ne . then uclmx = 0.01*ceil(100*uclm);
```

```
length median1 Q2575 Minmax Meansd CIAM n1 $50.;
```

```

        if not missing(median) then median1 = left(compress(put(round(median,0.01),15.2)));

        if not missing(mean) and not missing(std) then meansd = strip(put(round(mean, 0.01), 15.2)) || "
(" || strip(put(0.001*ceil(std/0.001),8.3)) || ")";;

        if not missing(min) and not missing(max) then minmax = left(compress(put(round(min, 0.1),
15.1))) || ', ' || left(compress(put(round(max, 0.1), 15.1)));

        if not missing(q1) and not missing(q3) then q2575 = strip(put(round(q1, 0.01), 15.2)) || ",
" || strip(put(round(q3, 0.01), 15.2));

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

        if not missing(lclm) and not missing(uclm) then ciam = strip(put(lclmx, 15.2)) || ",
" || strip(put(uclmx, 15.2));

        else if lclm = . and uclm ne . then ciam = "NA, " || strip(put(uclmx, 15.2));

        else if lclm ne . and uclm = . then ciam = strip(put(lclmx, 15.2)) || ", NA";

        else if lclm = . and uclm = . then ciam = "NA, NA";

run;

proc sort data=chg1;

    by param paramn apuper apuperc avisitn avisit ;

run;

proc transpose data=chg1 out=chg_t prefix= chg_;

    by param paramn apuper apuperc avisitn avisit ;

    var n1 median1 q2575 minmax meansd ciam;

    id trtpn;

run;

data chg_t;

```

length txt \$200.;

set chg\_t;

if upcase(\_name\_) = "N1" then do;

txtn = 1;

txt = "n";

end;

else if upcase(\_name\_) = "MEDIAN1" then do;

txtn = 9;

txt = "Median";

end;

else if upcase(\_name\_) = "Q2575" then do;

txtn = 10;

txt = "Q25, Q75";

end;

else if upcase(\_name\_) = "MINMAX" then do;

txtn = 11;

txt = "Min, Max";

end;

else if upcase(\_name\_) = "MEANSD" then do;

txtn = 7;

txt = "Mean (SD)";

end;

else if upcase(\_name\_) = "CIAM" then do;

txtn = 8;

txt = "95% CI of Mean";

```

        end;

run;

data chg_f;

    set chg_t;

run;

proc sort data=chg_f;

    by param paramn apuper apuperc avisitn avisit txtn txt;

run;

proc sort data=aval_f;

    by param paramn apuper apuperc avisitn avisit txtn txt;

run;

*combine value and % change stats;

data final;

length period $200.;

    merge aval_f chg_f(drop=_name_);

    by param paramn apuper apuperc avisitn avisit txtn txt;

    if apuper = 1 then do;

        period = "Period 1";

        THS = &N1THS;

        mcc = &N1mcc;

```

```

sa = &N1saa;

end;

else if apuper = 2 then do;

period = "Period 2";

ths = &n2ths;

mcc = &n2mcc;

sa = &n2saa;

end;

else if apuper = 3 then do;

period = "Period 3";

ths = &n3ths;

mcc = &n3mcc;

sa = &n3saa;

end;

else if apuper = 4 then do;

period = "Period 4";

ths = &n4ths;

mcc = &n4mcc;

sa = &n4saa;

end;


*percentage for ALOQ;

if txtn=4 then do;

    if trt_3 ne " " then num_3 = input(trt_3, best.);

    if trt_4 ne " " then num_4 = input(trt_4, best.);

end;

```

```

if trt_5 ne " " then num_5 = input(trt_5, best.);

if num_3 ne . then pp_3 = strip(put(round((num_3/sa)*100, 0.1), 15.1));

if num_4 ne . then pp_4 = strip(put(round((num_4/thr)*100, 0.1), 15.1));

if num_5 ne . then pp_5 = strip(put(round((num_5/mcc)*100, 0.1), 15.1));

trt_3 = strip(trt_3)||" ("||strip(pp_3)||")";

trt_4 = strip(trt_4)||" ("||strip(pp_4)||")";

trt_5 = strip(trt_5)||" ("||strip(pp_5)||")";

```

```

if chg_3 ne " " then chgnum_3 = input(chg_3, best.);

if chg_4 ne " " then chgnum_4 = input(chg_4, best.);

if chg_5 ne " " then chgnum_5 = input(chg_5, best.);

if chgnum_3 ne . then ppnum_3 = strip(put(round((chgnum_3/sa)* 100, 0.1), 15.1));

if chgnum_4 ne . then ppnum_4 = strip(put(round((chgnum_4/thr)*100, 0.1), 15.1));

if chgnum_5 ne . then ppnum_5 = strip(put(round((chgnum_5/mcc)*100, 0.1), 15.1));

chg_3 = strip(chg_3)||" ("||strip(ppnum_3)||")";

chg_4 = strip(chg_4)||" ("||strip(ppnum_4)||")";

chg_5 = strip(chg_5)||" ("||strip(ppnum_5)||")";

```

```

end;

```

```

run;

```

```

*Missing calculation;

```

```

data final_1;

```

```

    set final;

```

```

    output;

```



```

if txtn=1 then do;

    trt_3_=input(trt_3,best.);

    trt_4_=input(trt_4,best.);

    trt_5_=input(trt_5,best.);

    if chg_4 ne "" then chg_4_=input(chg_4,best.);

    if chg_5 ne "" then chg_5_=input(chg_5,best.);


    if trt_4_>=4 or trt_5_>=4 then do;

        if (ths-trt_4_)>0 or (mcc-trt_5_)>0 then do;

            trt_4_1=ths-trt_4_;

            trt_5_1=mcc-trt_5_;


            if trt_4_1 ne . then trt_4=strip(put(trt_4_1,8.0)) || "(" ||
strip(put(round((trt_4_1/ths)*100, 0.1),15.1)) || "%)";

            if trt_5_1 ne . then trt_5=strip(put(trt_5_1,8.0)) || "(" ||
strip(put(round((trt_5_1/mcc)*100, 0.1),15.1)) || "%)";


            txtn=2;

            txt = "Missing, n(%)";


            call missing(trt_3, chg_4, chg_5);

        end;

    end;

    if trt_3_>=4 then do;

        if avisitn=10 and (sa-trt_3_)>0 then do;

```

```

        trt_3_1=sa-trt_3_;

        if trt_3_1 ne . then trt_3=strip(put(trt_3_1,8.0)) || " (" ||
strip(put(round((trt_3_1/sa)*100, 0.1),15.1)) || ")";

    end;

end;

if chg_4_>=4 or chg_5_>=4 then do;

    if avisitn ^= 10 and ((ths-chg_4_)>0 or (mcc-chg_5_)>0) then do;

        if chg_4_ ^= . then chg_4_1=ths-chg_4_;

        if chg_5_ ^= . then chg_5_1=mcc-chg_5_;

        if chg_4_1 ne . then chg_4=strip(put(chg_4_1,8.0)) || " (" ||
strip(put(round((chg_4_1/ths)*100, 0.1),15.1)) || ")";

        if chg_5_1 ne . then chg_5=strip(put(chg_5_1,8.0)) || " (" ||
strip(put(round((chg_5_1/mcc)*100, 0.1),15.1)) || ")";

    end;

end;

output;

end;

run;

```

\*small N - BLOQ;

```
data bloq_small (keep=apuper paramn avisitn b_3 b_4 b_5);
```

```

    set aval_f;

    if txtn=1;

    b_3=input(trt_3,best.);

    b_4=input(trt_4,best.);

    b_5=input(trt_5,best.);

run;

```

\*percentage for BLOQ;

```
proc sort data=bloq_small; by paramn apuper avisitn; run;
```

```
proc sort data=final_1; by paramn apuper avisitn; run;
```

```
data final_1a;
```

```
    merge final_1 bloq_small;
```

```
    by paramn apuper avisitn;
```

```
    if txtn=3 then do;
```

```
        if trt_3 ne " " then num_3 = input(trt_3, best.);
```

```
        if trt_4 ne " " then num_4 = input(trt_4, best.);
```

```
        if trt_5 ne " " then num_5 = input(trt_5, best.);
```

```
        if num_3 ne . then pp_3 = strip(put(round((num_3/b_3)*100, 0.1), 15.1));
```

```
        if num_4 ne . then pp_4 = strip(put(round((num_4/b_4)*100, 0.1), 15.1));
```

```
        if num_5 ne . then pp_5 = strip(put(round((num_5/b_5)*100, 0.1), 15.1));
```

```
        trt_3 = strip(trt_3)||" ("||strip(pp_3)||")";
```

```
        trt_4 = strip(trt_4)||" ("||strip(pp_4)||")";
```

```
        trt_5 = strip(trt_5)||" ("||strip(pp_5)||")";
```

```
    end;
```

```
run;
```

```
data final_2;
```

```
length chg_3 $50;
```

```
    set final_1a;
```

```

if avisitn ^= 10 then do;
    if missing(chg_4) then do;
        if txtn=1 then chg_4="0";
    end;
    if missing(chg_5) then do;
        if txtn=1 then chg_5="0";
    end;
end;

```

```

if txtn=2 then do;
    if trt_3="0 (0.0)" then trt_3="0";
    if trt_4="0 (0.0)" then trt_4="0";
    if trt_5="0 (0.0)" then trt_5="0";

    if chg_3="0 (0.0)" then chg_3="0";
    if chg_4="0 (0.0)" then chg_4="0";
    if chg_5="0 (0.0)" then chg_5="0";
end;

```

```

array a[6] trt_3_ trt_4_ trt_5_ chg_3_ chg_4_ chg_5_;

```

```

array b[6] trt_3 trt_4 trt_5 chg_3 chg_4 chg_5;

```

```

do i=1 to 6;
    if txtn=1 and 0<a[i]<4 then do;
        b[i]="NC";
    end;
end;

```

```
        end;

run;

proc sql;

    create table page as

    select distinct apuper, apuperc, paramn, avisitn

    from final_2

    order by paramn, apuper, avisitn;

quit;
```

```
data page1;

    set page;

    by paramn 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_2 as a

    left join page1 as b

    on a.paramn = b.paramn and a.avisitn = b.avisitn and a.apuper = b.apuper

    order by paramn,apuper,avisitn,txtn;

quit;
```

```

data final_page;

    set final_page end=last;

    by paramn apuper avisitn txtn;

    if last then call symputx("page", page);

run;

```

```

data tflds.&tfldno.(keep=apuper apuperc txt txtn avisitn avisit param paramn trt_3 trt_4 trt_5 chg_3
chg_4 chg_5);

    set final_page;

run;

%put &page;

```

```

/* 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, halfbink=N);

```

```

%if &halfbink=N %then %let halfbink=;

```

```

%else %if &halfbink=Y %then %let halfbink=\~;

```

```

ods path stdlib.t106343 (read) ;

ods results off;

ods rtf toc_data file="/cvn/projects/prj/data/000000106343/TFL/dev/Tables/&tflno..rtf" style=t106343
startpage=yes headery=1440 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('N3', strip(put(sa, best.)));

        call symput('N4', strip(put(ths, best.)));

        call symput('N5', strip(put(mcc, best.)));

    end;

    drop _firtitl _upcas len;

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;

/* 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 param apuper avisitn avisit txtn txt ("THSm2.2$(N=&N4)&linebot" trt_4 chg_4 )
("mCC$(N=&N5)&linebot" trt_5 chg_5)

        ("SA$(N=&N3)&linebot" trt_3 chg_3)

;

```



```

define param          / order order = internal noprint;

define page          / order order = internal noprint;

define avisitn      / order order = internal noprint;

define apuper        / order order = internal noprint;


define txtn / order order = internal noprint;

define avisit        /"Timepoint" order order=internal style={just=left cellwidth=1.0cm}
style(header)={just=left} ;

define txt           /"Statistic" display style={just=left cellwidth=2.1cm}
style(header)={just=left} ;

define trt_3         /"Value" display style={JUST=c cellwidth=1.2cm}
style(header)={just=center} ;

define trt_4         /"Value" display style={just=c cellwidth=1.2cm}
style(header)={just=center} ;

define trt_5         /"Value" display style={just=c cellwidth=1.2cm}
style(header)={just=center};

define chg_3         /"% Change(*)" display style={JUST=c cellwidth=1.2cm}
style(header)={just=center};

define chg_4         /"% Change(*)" display style={just=c cellwidth=1.2cm}
style(header)={just=center};

define chg_5         /"% Change(*)" display style={just=c cellwidth=1.2cm}
style(header)={just=center};


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 "Parameter: &param";
```

```
LINE "Product Use Time Period: &period";
```

```
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 mCC / THS 2.2 Menthol arms or the last assessment prior to  
10AM on Day 1 in the SA arm.';
```

```
line ";
```

```
line 'Appendix 15.3.7.1';
```

```
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(blankn=36, halfblank=N);
```

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

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

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

```
%m_logchk;
```