

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

```
| Covance Study Number   : 000000106343          |
| Program Name           : t_icam1_pp.sas         |
| Purpose                : Program to table T_15_02_04_30_01      |
| Input Data             : ADAM.ADSL, ADAM.adlb      |
|                        |                          |
| Output Data            : T_15_02_04_30_01         |
| Macros Called          :                          |
| Originally Performed by :Sree Bikki              |
| Date                   : 12MAY2015                |
|                        |                          |
```

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

```
| Modification History          |
|-----|
| Modified by                   :                    |
| Modification Date             :                    |
|                               |
| Modification Description      :                    |
```

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

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

```
run;
```

```
%m_printto;
```

```
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;
```

```
%let tfIno=T_15_02_04_30_01;
```

```
/* 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;
```

```
data adlb_1;
```

```
set adam.adlb;
```

```
where (pprot1fl = "Y" and 101<=avisitn <= 106) or (pprot2fl = "Y" and avisitn = 130) or (pprot3fl = "Y"  
and avisitn = 160) or (pprot4fl = "Y" and avisitn in (190, 191));
```

```
if paramcd in ("ICAM1")and anl01fl = "Y";
```

```
run;
```

```
data adlb_2;
```

```
set adam.adlb;
```

```
if paramcd in ("ICAM1") and anl01fl = "Y";
```

```
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 adlb;
```

```
set adlb_1 adlb_2;
```

```
run;
```

```
proc sort data=adlb;
```

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

```
run;
```

```
/*GEOMEAN AN CI*/
```

```
data adlb_log;
```

```
set adlb;
```

```
if aval ne . then logaval = log(aval);
```

```
run;
```

```
proc sort data=adlb_log;
```

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

```
run;
```

```
proc means data=adlb_log noprint;
```

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

```
output out=aval_log mean = mean std = std lclm = lclm uclm = uclm;
```

```
var logaval;
```

```
run;
```

```
data aval_log1;
```

```
set aval_log;
```

```
length geocv CIGM $50.;
```

```
    gmean1=exp(mean);
```

```
    glci=exp(lclm);
```

```
    guci=exp(uclm);
```

```
    gmean=left(compress(put(round(gmean1,0.1), 8.1)));
```

```
    gcv=compress(put(0.01*ceil((sqrt(exp(std*std)-1)*100)/0.01),8.2));
```

```
        if not missing(gcv) then geocv=left(trim(gmean)) || ' (' || left(trim(gcv))|| ')';
```

```
    else geocv=left(trim(gmean));
```

```
        if not missing(glci) and not missing(guci) then cigm = strip(strip(put(0.1*floor(glci/0.1),8.1)) || ' , '
|| strip(put(0.1*ceil(guci/0.1),8.1)));
```

```
else if glci ne . and guci = . then cigm = strip(put(0.1*floor(glci/0.1), 8.1))|| ", NA";
```

```
else if glci = . and guci ne . then cigm = "NA, " || strip(put(0.1*ceil(guci/0.1),8.1));
```

```
else if glci = . and guci = . then cigm = "NA, NA";
```

```
run;
```

```
/*for figure dataset t_15_02_04_30_01_F*/
```

```
data figure;
```

```
set aval_log1;
```

```
drop std _type__freq_ apuper apuperc;
```

```
logf=1;
```

```
mean = gmean1;
```

```
lclm = glci;
```

```
uclm = guci;
```

```
if apuper in (2,3,4) and avisitn=10 then delete;
```

```
keep avisit avisitn paramcd param paramn trtp trtpn mean lclm uclm logf;
```

```
run;
```

```
/*end for figure dataset t_15_02_04_30_01_F*/
```

```
proc sort data=aval_log1 ;
```

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

```
run;
```

```
proc transpose data=aval_log1 out=aval_log1_t prefix= trt_;
```

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

```
var geocv cigm;
```

```
id trtpn;
```

```
run;
```

```
/*Q25 Q75 MEdian*/
```

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

```
var aval;
```

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

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

```
run;
```

```
data aval1;
```

```
set aval;
```

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

```
median1 = strip(put(round(median, 0.01), 15.1));
```

```
q2575 = strip(put(round(q1, 0.01), 15.1))||", "||strip(put(round(q3, 0.01), 15.1));
```

```
minmax = strip(put(round(min, 0.1), 15.0))||", "||strip(put(round(max, 0.1), 15.0));
```

```
n1 = strip(put(n, best.));
```

```
run;
```

```
/**missing calculation*/
```

```
data results03;
```

```
length missc $30;
```



```

set aval1;

/*period 1*/

if trtpn=3 and apuper = 1 then do;

if &n1saa.=n then

missc="";

else

missc=strip(put((&n1saa.- n), 8.)) || ' (' || strip(put(((&n1saa.-n)*100)/&n1saa., 8.1)) || ")";

end;

else if trtpn=4 and apuper = 1 then do;

if &n1ths.=n then

missc="";

else

missc=strip(put((&n1ths.- n), 8.)) || ' (' || strip(put(((&n1ths.-n)*100)/&n1ths., 8.1)) || ")";

end;

else if trtpn=5 and apuper = 1 then do;

if &n1mcc.=n

then missc="";

else

missc=strip(put((&n1mcc.-n), 8.)) || ' (' || strip(put(((&n1mcc.-n)*100)/&n1mcc., 8.1)) || ")";

end;

/*period 2*/

if trtpn=3 and apuper = 2 then do;

if &n2saa.=n then

missc="";

else

missc=strip(put((&n2saa.- n), 8.)) || ' (' || strip(put(((&n2saa.-n)*100)/&n2saa., 8.1)) || ")";

end;

```

[illegible]

```

else
missc=strip(put((&n3mcc.-n), 8.)) || ' (' || strip(put(((&n3mcc.-n)*100)/&n3mcc., 8.1)) || ")";

end;

/*period 4*/

if trtpn=3 and apuper =
4 then do;

if &n4saa.=n then

missc="";

else

missc=strip(put((&n4saa.- n), 8.)) || ' (' || strip(put(((&n4saa.-n)*100)/&n4saa., 8.1)) || ")";

end;

else if trtpn=4 and apuper =4 then do;

if &n4ths.=n then

missc="";

else

missc=strip(put((&n4ths.- n), 8.)) || ' (' || strip(put(((&n4ths.-n)*100)/&n4ths., 8.1)) || ")";

end;

else if trtpn=5 and apuper = 4 then do;

if &n4mcc.=n

then missc="";

else

missc=strip(put((&n4mcc.-n), 8.)) || ' (' || strip(put(((&n4mcc.-n)*100)/&n4mcc., 8.1)) || ")";

end;

run;

```

```
proc sort data=results03 out=aval1;

by paramn param apuper apuperc avisitn avisit ;

run;
```

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

by paramn param apuper apuperc avisitn avisit ;

var n1 median1 q2575 minmax missc;

id trtpn;

run;
```

```
data aval_t;

length txt $200.;

set aval_t aval_log1_t;

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

txtn = 1;

txt = "n";

end;

if upcase(_name_) = "MISSC" then do;

txtn = 2;

txt = "Missing, n (%)";

end;

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

txtn = 6;

txt = "Median";
```

```
end;

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

txtn = 7;

txt = "Q25, Q75";

end;

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

txtn = 8;

txt = "Min, Max";

end;

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

txtn = 4;

txt = "Geometric Mean (CV%)";

end;

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

txtn = 5;

txt = "95% CI of Geometric Mean";

end;

run;
```

```
/*      ALOQ AND BLOOQ*/
```

```
data Stat;
```

```
length txt $100.;
```

```
set adlb;

if aqlfl = 'Y' then do;

txtn = 3;

txt = "BLOQ, n (%)";

output;

end;

run;
```

```
proc sort data=stat out=stat1 nodupkey dupout=dup;

by usubjid paramn apuper apuperc avisitn txtn ;

run;
```

```
proc freq data=stat1 noprint;

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

run;
```

```
data stat_freq;

length countx $50.;

set stat_freq;

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

run;
```

```
proc sort data=stat_freq;

by paramn param apuper apuperc avisitn avisit txtn txt;

run;
```

```
proc transpose data=stat_freq out=stat_freq_t prefix=trt_;
```

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

```
var countx;
```

```
id trtpn;
```

```
run;
```

```
data dummy;
```

```
length trt_3 trt_4 trt_5 $50;
```

```
set stat_freq_t(keep= paramn param apuper apuperc avisitn avisit txtn txt);
```

```
trt_4 = "";
```

```
trt_3 = "";
```

```
trt_5 = "";
```

```
run;
```

```
data stat_freq_t1;
```

```
update dummy stat_freq_t;
```

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

```
run;
```

```
data stat_freq_t2;
```

```
set stat_freq_t1(drop=_name_);
```

```
where paramn ne .;
```

```
run;
```

```
/**code to change denominators for BLOQ records*/  
  
data test;  
  
set aval1;  
  
keep paramn param apuper apuperc avisitn avisit trtpn n ;  
  
run;
```

```
proc sort data=test;  
  
by paramn param apuper apuperc avisitn avisit trtpn ;  
  
run;
```

```
data testa(rename= (n=r3_n)) testb(rename= (n=r4_n)) testc(rename= (n=r5_n));  
  
set test;  
  
if trtpn =3 then output testa;  
  
if trtpn = 4 then output testb;  
  
if trtpn=5 then output testc;  
  
run;
```

```
data test1;
```



```
merge stat_freq_t2(in=a) testa(in=b drop=trtpn) testb(in=c drop=trtpn) testc(in=d drop=trtpn);
```

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

```
if a ;
```

```
run;
```

```
/** end of code to change denominators for BLOQ records*/
```

```
data aval_f;
```

```
set aval_t test1;
```

```
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;

if txtn in (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/r3_n)*100, 0.1), 15.1));

if num_4 ne . then pp_4 = strip(put(round((num_4/r4_n)*100, 0.1), 15.1));

if num_5 ne . then pp_5 = strip(put(round((num_5/r5_n)*100, 0.1), 15.1));

if not missing(trt_3) and not missing(pp_3) then trt_3 = strip(trt_3)||" ("||strip(pp_3)||")";

if not missing(trt_4) and not missing(pp_4) then trt_4 = strip(trt_4)||" ("||strip(pp_4)||")";

if not missing(trt_5) and not missing(pp_5) then trt_5 = strip(trt_5)||" ("||strip(pp_5)||")";

end;

drop num_3 num_4 num_5 pp_3 pp_4 pp_5;

run;

```

```
proc sort data=aval_f;  
by paramn param apuper apuperc avisitn avisit txtn txt;  
run;
```

```
proc sort data=adlb;  
by trtpn paramn param apuper apuperc avisitn avisit ;  
run;
```

```
proc means data=adlb(where=(pchg ne . and ablfl ne "Y")) noprint;  
var pchg;  
by trtpn paramn param 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;  
length geocv CIGM $50.;  
set chg;  
if lclm ne . then lclmx = 0.01*floor(100*lclm);  
if uclm ne . then uclmx = 0.01*ceil(100*uclm);  
length median1 Q2575 Minmax n1 $50.;  
median1 = strip(put(round(median, 0.01), 15.1));  
q2575 = strip(put(round(q1, 0.01), 15.1)) || ", " || strip(put(round(q3, 0.01), 15.1));
```

```
minmax = strip(put(round(min, 0.1), 15.0)) || ", " || strip(put(round(max, 0.1), 15.0));
```

```
n1 = strip(put(n, best.));
```

```
geocv = " ";
```

```
cigm = " ";
```

```
run;
```

```
/**missing calculation*/
```

```
data results04;
```

```
length missc $30;
```

```
set chg1;
```

```
/*period 1*/
```

```
if trtpn=3 and apuper = 1 then do;
```

```
if &n1saa.=n then
```

```
missc="";
```

```
else
```

```
missc=strip(put((&n1saa.- n), 8.)) || ' (' || strip(put(((&n1saa.-n)*100)/&n1saa., 8.1)) || ")";
```

```
end;
```

```
else if trtpn=4 and apuper = 1 then do;
```

```
if &n1ths.=n then
```

```
missc="";
```

```
else
```

```
missc=strip(put((&n1ths.- n), 8.)) || ' (' || strip(put(((&n1ths.-n)*100)/&n1ths., 8.1)) || ")";
```

```
end;
```

```
else if trtpn=5 and apuper = 1 then do;
```

```

if &n1mcc.=n
then missc="";

else
missc=strip(put((&n1mcc.-n), 8.)) || ' (' || strip(put(((&n1mcc.-n)*100)/&n1mcc., 8.1)) || ")";

end;

```

/\*period 2\*/

```

if trtpn=3 and apuper = 2 then do;

if &n2saa.=n then

missc="";

else
missc=strip(put((&n2saa.- n), 8.)) || ' (' || strip(put(((&n2saa.-n)*100)/&n2saa., 8.1)) || ")";

end;

```

```

else if trtpn=4 and apuper = 2 then do;

if &n2ths.=n then

missc="";

else
missc=strip(put((&n2ths.- n), 8.)) || ' (' || strip(put(((&n2ths.-n)*100)/&n2ths., 8.1)) || ")";

end;

```

```

else if trtpn=5 and apuper = 2 then do;

if &n2mcc.=n

then missc="";

else
missc=strip(put((&n2mcc.-n), 8.)) || ' (' || strip(put(((&n2mcc.-n)*100)/&n2mcc., 8.1)) || ")";

end;

```

/\* period 3\*/

```

if trtpn=3 and apuper = 3 then do;

```

```

if &n3saa.=n then
missc="";

else
missc=strip(put((&n3saa.-n), 8.)) || ' (' || strip(put(((&n3saa.-n)*100)/&n3saa., 8.1)) || ")";
end;

else if trtpn=4 and apuper =3 then do;

if &n3ths.=n then
missc="";

else
missc=strip(put((&n3ths.- n), 8.)) || ' (' || strip(put(((&n3ths.-n)*100)/&n3ths., 8.1)) || ")";
end;

else if trtpn=5 and apuper = 3 then do;

if &n3mcc.=n
then missc="";

else
missc=strip(put((&n3mcc.-n), 8.)) || ' (' || strip(put(((&n3mcc.-n)*100)/&n3mcc., 8.1)) || ")";
end;

/*period 4*/

if trtpn=3 and apuper =
4 then do;

if &n4saa.=n then
missc="";

else
missc=strip(put((&n4saa.- n), 8.)) || ' (' || strip(put(((&n4saa.-n)*100)/&n4saa., 8.1)) || ")";
end;

else if trtpn=4 and apuper =4 then do;

```

```

                                if &n4ths.=n then
missc="";

                                else
missc=strip(put((&n4ths.- n), 8.)) || ' (' || strip(put(((&n4ths.-n)*100)/&n4ths., 8.1)) || ")";

                                end;

                                else if trtpn=5 and apuper = 4 then do;

                                if &n4mcc.=n
then missc="";

                                else
missc=strip(put((&n4mcc.-n), 8.)) || ' (' || strip(put(((&n4mcc.-n)*100)/&n4mcc., 8.1)) || ")";

end;

run;

```

```

proc sort data=results04 out=chg1;

by paramn param apuper apuperc avisitn avisit ;

run;

```

```

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

by paramn param apuper apuperc avisitn avisit ;

var n1 median1 q2575 minmax geocv cigm missc;

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_) = "MISSC" then do;  
  
        txtn = 2;  
  
        txt = "Missing, n (%)";  
  
        end;  
  
        else if upcase(_name_) = "MEDIAN1" then do;  
  
            txtn = 6;  
  
            txt = "Median";  
  
            end;  
  
            else if upcase(_name_) = "Q2575" then do;  
  
                txtn = 7;  
  
                txt = "Q25, Q75";  
  
                end;  
  
                else if upcase(_name_) = "MINMAX" then do;  
  
                    txtn = 8;  
  
                    txt = "Min, Max";  
  
                    end;  
  
                    else if upcase(_name_) = "GEOCV" then do;  
  
                        txtn = 4;  
  
                        txt = "Geometric Mean (CV%)";  
  
                        end;
```



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

```
txtn = 5;
```

```
txt = "95% CI of Geometric Mean";
```

```
end;
```

```
run;
```

```
data chg_f;
```

```
set chg_t ;
```

```
run;
```

```
proc sort data=chg_f;
```

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

```
run;
```

```
proc sort data=aval_f;
```

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

```
run;
```

```
data final;
```

```
length period $200.;
```

```
merge aval_f chg_f(drop=_name_);
```

```
by paramn param 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;

if trt_3 = " " and trt_4 = " " and trt_5 = " " and chg_3 = " " and chg_4 = " " and chg_5 = " " then delete;
```

```
if txtn in (2,3) then do;
if trt_3 = " " then trt_3 = "0";
if trt_4 = " " then trt_4 = "0";
if trt_5 = " " then trt_5 = "0";
end;
if txtn in (2,3) and avisitn ne 10 then do;
if chg_3 = " " then chg_3 = "0";
if chg_4 = " " then chg_4 = "0";
if chg_5 = " " then chg_5 = "0";
end;
run;
```

```
data page1;
set final;
by paramn apuper avisitn;
if period = "Period 1" and avisitn = 10 then page = 1;
if period = "Period 1" and avisitn = 106 then page = 2;
if period = "Period 2" and avisitn = 10 then page = 3;
if period = "Period 2" and avisitn = 130 then page = 4;
if period = "Period 3" and avisitn = 10 then page = 5;
if period = "Period 3" and avisitn = 160 then page = 6;
if period = "Period 4" and avisitn = 10 then page = 7;
if period = "Period 4" and avisitn = 190 then page = 8;
```

```
run;
```

```
proc sql;
```

```
create table final_page as
```

```
select distinct a.*, b.page
```

```
from final 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.&tflno(keep=txt txtn avisitn avisit paramn param trt_3 trt_4 trt_5 chg_3 chg_4 chg_5);
```

```
set final_page;
```

```
run;
```

```
data tflds.t_15_02_04_30_01_F;
```

```
set figure;
```

```
run;
```

```
%put &page;
```

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

```
options number nodate orientation=landscape /* papersize=&P_PGSIZE*/ 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, halfblk=N);
```

```
%if &halfblk=N %then %let halfblk=;
```

```
%else %if &halfblk=Y %then %let halfblk=~;
```

```
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;

%let wd=0;

ods proclabel = ' ';


data comp;

    set final_page end=eof;

        where page=&i;


/* Amend title as needed */

        _firtitl="Table 15.2.4.30.1 Descriptive Statistics of sICAM (ng/mL)- 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('period', strip(apuperc));

            call symput('param', strip(param));

            call symput('N3', strip(put(sa, best.)));

            call symput('N4', strip(put(thb, 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 paramn 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 paramn / 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=1.9cm}
style(header)={just=left} ;
```

```
define txt /"Statistic" display style={just=left cellwidth=1.9cm}
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={just=left protectspecialchars=off};

```

```

    line "\b\fs24\sa24&_FSRTITL." ; * \b = bold, \fs24 is font size 12pt, \sa24 is space after 12pt;

```

```

    line " ";

```

```

    line "Parameter (units):&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: '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).";
```

```
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 15.3.3.2';
```

```
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, halfblank=N);
```

```
ods listing;
```

```
%m_logchk2;
```

