

```

%_mprintto;
options notes nosource;
proc datasets lib=work nolist memtype=data kill; quit;
%put NOTE:
=====;
%put NOTE: Covance Study Number : 000000106324;
%put NOTE: Client Protocol ID   : ZRHR-REXC-03-EU;
%put NOTE: Program Name        : t_spiro.sas;
%put NOTE: Purpose              : table of spirometry;
%put NOTE: ;
%put NOTE: Input Data           : ADAM.ADXP ADAM.ADSL;
%put NOTE: Output               : t_15_2_6_18(xp);
%put NOTE: Macros Called        : _MPRINTTO;
%put NOTE: ;
%put NOTE: Programmed by        : cvn_jriley;
%put NOTE: Creation Date        : 2014-07-24;
%put NOTE: SAS Version          : 9.3;
%put NOTE: ;
%put NOTE: == Latest Run
=====;
%put NOTE: Run by                : &sysuserid;
%put NOTE: Date/Time             :
%sysfunc(putn(%sysfunc(date()),e8601da.))T%sysfunc(putn(%sysfunc(time()),
e86011z.));
%put NOTE: ;
%put NOTE: == Modification History
=====;
%put NOTE: Date      Initials  No. Reason;
%put NOTE: 04Aug2014  JR        1) Amended log un-initialised;
%put NOTE: 04Aug2014  JR        2) Corrected parameter sorting;
%put NOTE: 04Aug2014  JR        3) Removed unnecessary code;
%put NOTE: 04Aug2014  JR        4) Added user war-ning;
%put NOTE: 04Aug2014  JR        5) Added baseline update;
%put NOTE: 04Aug2014  JR        6) Flagged derived variable;
%put NOTE: 04Aug2014  JR        7) Amended footnote;
%put NOTE: 04Aug2014  JR        8) Amended label printing in output;
%put NOTE: 04Aug2014  JR        9) Amended units;
%put NOTE: 04Aug2014  JR        10) Amended rounding;
%put NOTE: 16Sep2014  JMH       11) Updated clinical significance and
proc report ;
%put NOTE: 18Sep2014  JR        12) Amended baseline footnote;
%put NOTE: 19Sep2014  KB        13) Amended stats for percent predicted
FEV & FVC;
%put NOTE: 03Oct2014  JR        14) Stripped variables;
%put NOTE: 07Oct2014  JR        15) Amended negative issue;
%put NOTE: ;
%put NOTE:
=====;
options notes source source2 nofullstimer validvarname=upcase missing='
';
ods _all_ close;
ods listing;

*=====;

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* START OF PROGRAM CODE ;
*=====;

%let tflno=T_15_02_06_18(xp);

%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",""));
run;

*****;
* read in data ;
*****;

/*Use ADSL to get N numbers for column headers*/
data adsl;
    set adam.adsl;
    where saffl = 'Y';
    if missing(trt01an) then delete;
    if index(trt01a,'Exposed') then delete;
    output;
    trt01an=99;
    trt01a='Overall Safety';
    output;
run;

proc freq data=adsl noprint;
    table trt01an*trt01a/ out =tot(drop=percent);
run;

data dumtrts; /*Use this to output any columns for which N=0*/
    attrib trt01a length =$40.
                                trt01an length=8.;
    trt01an=1;
    trt01a='THS 2.2';
    output;
    trt01an=2;
    trt01a='CC';
    output;
    trt01an=3;
    trt01a='SA';
    output;
    trt01an=97;
    trt01a='Enrolled not randomized';
    output;
run;

data dumtrts2; /*Use this to output any columns for which N=0*/
    attrib trta length =$40.
                                trtan length=8.;

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        trtan=1;
        trta='THS 2.2';
        output;
        trtan=2;
        trta='CC';
        output;
        trtan=3;
        trta='SA';
        output;
        trtan=97;
        trta='Enrolled not randomized';
        output;
run;

data tot2a;
    merge tot(in=a) dumtrts(in=b);
    by trt01an trt01a;
    if a or b;
    if b and not a then count=0;
    call symput('trt' || compress(put(trt01an,best.)),
compress(count));
run;

data tot2;
    set tot2a;
    trta=trt01a;
    trtan=trt01an;
run;

/*Bring in appropriate data from ADXP*/
data adxp1;
    set adam.adxp(where=((paramcd in ('DFEVFVC' 'INTP' 'FEVMEAS'
'FVCMEAS' 'FEVPCT' 'FVCPCT'
'WFEVMEAS' 'WFVCMEAS' 'WFVCPCT' 'WFEVPCT' 'WFEVFVC' 'WINTP') or
(paramcd='FEVFVC'
and xpstat ne 'NOT DONE')) and saffl = 'Y' and anl01fl='Y'));
    IF ABLFL='Y' THEN DO; AVISIT='Baseline'; AVISITN=100; END;
    IF AVISIT NE 'Baseline' AND AVISITN LT 101 THEN DELETE; /* 5) JR
04Aug2014 */
    if missing(trtan) then delete;
    if index(trta,'Exposed') then delete;
    output;
    trtan=99;
    trta='Overall Safety';
    output;
run;

/*data adxp1a;*/ /* 3) JR 04Aug2014 */
/*    set adxp1;*/
/**/
/*    if index(parcat1,'without') then param=strip(param)||'
'||strip(lowercase(parcat1))||' ';*/
/*run;*/

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/*INTP only*/
proc sort data=ADXP1/*A*/ out=adxp;
    by trtan trta avisitn avisit usubjid avalc paramn param xpclsig;
run;

proc freq data=adxp(where=(paramcd in ('INTP' 'WINTP') and anl01fl='Y'))
    noprint;
    table trtan*trta*avisitn*avisit*aval*avalc*paramn*param*xpclsig /
    out =intp1(drop=percent);
run;

data intp2;
    merge intp1(in=a) dumtrts2(in=b) tot2(rename=(count=total));
    by trtan trta;
    if a or b;
    if b and not a then do;
        count = 0;
        avisitn=1;
        avisit='Screening';
        avalc='Normal';
    end;
    if total ne 0 then do;
        percent=count/total*100;
    end;
run;

proc sort data=intp2 nodupkey out=trtvis(keep=trtan trta avisitn avisit
    avalc paramn param);
    by trtan trta avisitn avisit param;
run;

data dumrows;
    set trtvis;

    attrib xpclsig length=$3.;
    avalc='Normal';
    xpclsig = '';
    output;
    avalc='Abnormal';
    xpclsig = 'NCS';
    output;
    avalc='Abnormal';
    xpclsig = 'CS';
    output;
run;

proc sort data=dumrows;
    by trtan trta avisitn avisit param avalc xpclsig;
run;

proc sort data=intp2;
    by trtan trta avisitn avisit param avalc xpclsig;
run;

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data intp3;
    merge intp2(in=a) dumrows(in=b);
    by trtan trta avisitn avisit param avalc xpclsig;
    if a or b;
    if a then data=1;
    if b then dummy=1;

    attrib statval length=$20.
        count1 length=$3.;
    if b and not a then do;
        count=0;
        percent=0;
    end;

        attrib paramc length = $100.
            visit length = $100.
            stat length = $100.;

    paramc=strip(param);

    if avisitn=1 then do; ord=1; visit=avisit; end;
    else if avisitn=100 then do; ord=5; visit=avisit; end;
    else if avisitn=106 then do; ord=7; visit=avisit; end;
    else put "WA" "RNING: Unexpected value for avisitn: "
avisitn=;

    if avalc='Normal' then do;
        stat='Normal - n (%)';
        statord=1;
    end;
    else if avalc='Abnormal' and xpclsig='NCS' then do;
/*
        stat='Abnormal non-clinically relevant - n (%)';*/
        STAT='Abnormal non-clinically significant - n (%)'; /*
11) JMH 16Sep2014 */
        statord=2;
    end;
    else if avalc='Abnormal' and xpclsig='CS' then do;
/*
        stat='Abnormal clinically relevant - n (%)';*/
        STAT='Abnormal clinically significant - n (%)'; /* 11)
JMH 16Sep2014 */
        statord=3;
    end;
    ELSE PUT "WAR" "NING unexpected avalc/xpclsig" avalc=
xpclsig=; /* 4) JR 04Aug2014 */

    if count=0 then statval = strip(put(count,best.)) ;

    if count lt 10 then count1=' ' || compress(put(count,best.));
    else count1=strip(put(count,best.));

    count1=trim(count1);

    if count=0 then do;
        statval = ' 0 ' ;

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        end;
        else do;
            if percent=100 then statval = strip(put(count,best.)) ||
' (100 %)' ;
            else if percent lt 10 then statval = count1 || ' ' || '(
' ||left(strip(put(round(percent,0.1),5.1))) || '%)';
            else if percent ge 10 then statval = count1 || ' ' || '(
' ||left(strip(put(round(percent,0.1),5.1))) || '%)';
        end;

run;

proc sort data=intp3;
    by paramn paramc ord avisitn visit statord stat;
run;

proc transpose data=intp3 out=intp4(where=(stat ne 'DUMMY')) prefix=t;
    by paramn paramc ord avisitn visit statord stat;
    var statval;
    id trtan;
    idlabel trta;
run;

data intp5;
    set intp4;

        if t1='' then t1='0';
        if t2='' then t2='0';
        if t3='' then t3='0';
        if t97='' then t97='0';
        if t99='' then t99='0';

run;

    /*End of INTP, will set on with rest of data later*/

/*Everything except INTP*/
data adxp_orig;
    set adxp(where=(paramcd not in ('INTP' 'WINTP' 'FEVPRED' 'FVCPRED'
'WFEVPRED' 'WFVCPRED')));
    if avisitn=1 then ord=1;
    else if avisitn=100 then ord=5;
    else if avisitn=106 then ord=7;
    else put "WA" "RNING: Unexpected value for avisitn: " avisitn=;
    statval=aval;

run;

data adxp_chg;
    set adxp(where=(avisitn in(106)and paramcd not in ('INTP' 'WINTP'
'FEVPRED' 'FVCPRED' 'WFEVPRED' 'WFVCPRED'))); /*Only keep days after
baseline*/
    if avisitn=106 then ord=7; /*Change from Baseline to Discharge
confinement*/

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else put "WA" "RNING: Unexpected value for avisitn: " avisitn=;
statval=chg;
run;

/*Transpose for raw values*/
proc sort data=adxp_orig;
  by trtan trta paramn ord param avalu avisitn avisit;
run;

proc univariate data=adxp_orig noprint;
  var statval;
  by trtan trta paramn ord param avalu avisitn avisit;
  output out=results01_orig n=nlo mean=meanlo std=stdlo median=medlo
min=minlo max=maxlo;
run;

/*Transpose for change from baseline values*/
proc sort data=adxp_chg;
  by trtan trta paramn ord param avalu avisitn avisit;
run;

proc univariate data=adxp_chg noprint;
  var statval;
  by trtan trta paramn ord param avalu avisitn avisit;
  output out=results01_chg n=nlc mean=meanlc std=stdlc median=medlc
min=minlc max=maxlc;
run;

data results01;
  merge results01_orig results01_chg;
  by trtan trta paramn ord param avalu avisitn avisit;
run;

data results02;
  set results01;
  attrib meansdo length=$100.
              minmaxo length=$100.
              no length=$100.
              mediano length=$100.;

  /* START 10) JR 04Aug2014 */
  IF PARAMN IN (14 17 5 8 ) THEN DO; /* 13) KB 19Sep2014 */
    no = left(compress(put(nlo,8.)));
    if not missing(medlo) then mediano =
left(compress(put(medlo,8.1)));
    if not missing(meanlo) and not missing(stdlo) then
meansdo = left(compress(put(meanlo,8.1))) || ' (' ||
compress(put(0.01*ceil(stdlo/0.01),8.2)) || ')';
    if not missing(minlo) and not missing(maxlo) then
minmaxo = left(compress(put(minlo,8.))) || ', ' ||
left(compress(put(maxlo,8.)));

    attrib meansdc length=$100.
              minmaxc length=$100.
              nc length=$100.

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                                medianc length=$100.;

                                nc          = left(compress(put(nlc,8.)));
                                if not missing(medlc) then medianc =
left(compress(put(medlc,8.1)));
                                if not missing(meanlc) and not missing(stdlc) then
meansdc = left(compress(put(meanlc,8.1))) || ' (' ||
compress(put(0.01*ceil(stdlc/0.01),8.2)) || ')';
                                if not missing(minlc) and not missing(maxlc) then
minmaxc = left(compress(put(minlc,8.))) || ', ' ||
left(compress(put(maxlc,8.)));
                                END;
                                ELSE IF PARAMN NOT IN (14 17 5 8) THEN DO; /* 13) KB 19Sep2014 */
                                NO          = LEFT(COMPRESS(PUT(N10,8.)));
                                IF NOT MISSING(MED10) THEN MEDIANO =
LEFT(COMPRESS(PUT(MED10,8.3)));
                                IF NOT MISSING(MEAN10) AND NOT MISSING(STD10) THEN
MEANSDO = LEFT(COMPRESS(PUT(MEAN10,8.3))) || ' (' ||
COMPRESS(PUT(0.0001*CEIL(STD10/0.0001),8.4)) || ')';
                                IF NOT MISSING(MIN10) AND NOT MISSING(MAX10) THEN
MINMAXO = LEFT(COMPRESS(PUT(MIN10,8.2))) || ', ' ||
LEFT(COMPRESS(PUT(MAX10,8.2)));

                                ATTRIB MEANSDC LENGTH=$100.
                                                MINMAXC LENGTH=$100.
                                                NC          LENGTH=$100.
                                                MEDIANC  LENGTH=$100.;

                                NC          = LEFT(COMPRESS(PUT(N1C,8.)));
                                IF NOT MISSING(MED1C) THEN MEDIANC =
LEFT(COMPRESS(PUT(MED1C,8.3)));
                                IF NOT MISSING(MEAN1C) AND NOT MISSING(STD1C) THEN
MEANSDC = LEFT(COMPRESS(PUT(MEAN1C,8.3))) || ' (' ||
COMPRESS(PUT(0.0001*CEIL(STD1C/0.0001),8.4)) || ')';
                                IF NOT MISSING(MIN1C) AND NOT MISSING(MAX1C) THEN
MINMAXC = LEFT(COMPRESS(PUT(MIN1C,8.2))) || ', ' ||
LEFT(COMPRESS(PUT(MAX1C,8.2)));
                                END;
                                /* END 10) JR 04Aug2014 */
                                drop nlo meanlo stdlo medlo minlo maxlo nlc meanlc stdlc
medlc minlc maxlc;

                                if /*index(meansdo,'-0.0')*/MEANSDO='-0.0' then
meansdo=tranwrd(meansdo,'-0.0','0.0'); /* 15) JR 07Oct2014 */
                                if /*index(meansdc,'-0.0')*/MEANSDC='-0.0' then
meansdc=tranwrd(meansdc,'-0.0','0.0'); /* 15) JR 07Oct2014 */
run;

data results03; /*Create text as required in output*/
set results02;
attrib paramc length = $100.
visit length = $100.;

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        IF PARAM='Ratio between FEV1/FVC (Derived)' THEN PARAM='Calculated
ratio between FEV1/FVC`{super 1}'; /* 9) JR 04Aug2014 */
        paramc=strip(param)||' ('||strip(avalu)||')';

        if ord=1 then visit=avisit;
        else if ord=5 then visit=avisit;
        else if ord=7 then visit=avisit;
        else put "WA" "RNING: Unexpected value for ord: " ord=;
run;

proc sort data=results03;
    by paramn paramc ord visit avisitn;
run;

proc transpose data=results03 out=results04_orig1 prefix=o name=varname;
    by paramn paramc ord visit avisitn;
    var no meansdo mediano minmaxo;
    id trtan;
    idlabel trta;
run;

data results04_orig;
    set results04_orig1;
    varname=tranwrd(varname,'O','C');
run;

proc transpose data=results03 out=results04_chg prefix=c name=varname;
    by paramn paramc ord visit avisitn;
    var nc meansdc medianc minmaxc;
    id trtan;
    idlabel trta;
run;

proc sort data=results04_orig;
    by paramn paramc ord avisitn visit varname;
run;

proc sort data=results04_chg;
    by paramn paramc ord avisitn visit varname;
run;

data results04;
    merge results04_orig results04_chg;
    by paramn paramc ord avisitn visit varname;
run;

data results05;
    set results04;
    attrib stat length = $100.;
    if varname='NC' then do; statord=1; stat='n'; end;
    else if varname='MEANSDC' then do; statord=2; stat='Mean (SD)';
end;
    else if varname='MEDIANC' then do; statord=3; stat='Median'; end;
    else if varname='MINMAXC' then do; statord=4; stat='Min, Max'; end;

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        drop varname;
run;

data results06;
    set results05;
    if stat='n' and statord=1 then do;
        if missing(o1) then o1='0';
        if missing(o2) then o2='0';
        if missing(o3) then o3='0';
        if missing(o97) then o97='0';
        if missing(o99) then o99='0';
    end;

run;
    /*Now combine the stats with the classification results*/
data allresults;
    set results06 intp5;

    if paramn=10 then paramn=21;
    else if paramn=19 then paramn=22;

    /* IF PARAMC='Ratio between FEV1/FVC (Derived) (RATIO)' THEN
PARAMC='Calculated ratio between FEV1/FVC`{super 1}`';*/ /* 6) JR
04Aug2014 */ /* 9) JR 04Aug2014 */

    /*Remove data before baseline*/
/*
    if avisitn < 100 then delete;*/
    if avisit = 'Day 0' then avisit = 'Baseline';
/*for interpretation values*/
    if paramn in(21 22) then do;
        o1=t1;
        o2=t2;
        o3=t3;
        o97=t97;
        o99=t99;
    end;

    visit=tranwrd(visit,'/', '/ ');
    DROP T1 T2 T3 T97 T99; /* 11) JMH 16Sep2014 */
run;

data labels;
    set allresults;
    attrib          o1 o2 o3 o97 o99 label = "Raw value"
                   c1 c2 c3 c97 c99 label = "Change";

    /*if paramc = 'Best measured FEV1 value (with bronchodilator) (L)' then
paramn = 3;*/ /* 2) JR 04Aug2014 */
    /*if paramc = 'Best measured FEV1 value (L)' then paramn = 4; */
    /*if paramc = 'Best measured FVC value (with bronchodilator) (L)' then
paramn = 5;*/
    /*if paramc = 'Best measured FVC value (L)' then paramn = 6; */

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/*if paramc = 'Calculated ratio between FEV1/FVC (with bronchodilator)
(RATIO)' then paramn = 7;*/
/*if paramc = 'Calculated ratio between FEV1/FVC (RATIO)' then paramn =
8;*/
/*if paramc = 'Ratio between FEV1/FVC (Derived) (RATIO)' then paramn =
9;*/
/*if paramc = 'Percent of predicted FVC value (with bronchodilator) (%)'
then paramn = 12;*/
/*if paramc = 'Percent of predicted FEV1 value (%)' then paramn = 11; */
/*if paramc = 'Percent of predicted FEV1 value (with bronchodilator) (%)'
then paramn = 10;*/
/*if paramc = 'Percent of predicted FVC value (%)' then paramn = 13; */
/* sTART 14) JR 03Oct2014 */
        O1 = STRIP(O1);
        O2 = STRIP(O2);
        O3 = STRIP(O3);
        O97 = STRIP(O97);
        O99 = STRIP(O99);
        C1 = STRIP(C1);
        C2 = STRIP(C2);
        C3 = STRIP(C3);
        C97 = STRIP(C97);
        C99 = STRIP(C99);

/* END 14) JR 03Oct2014 */

if index(stat,'ormal') then fl=1;
else fl=2;

run;

proc sort data=labels;
    by paramn avisitn ord statord;
run;

proc sql noprint;
    create table table.t_15_02_06_18 as
    select paramc, visit, stat, o1, o2, o3, o97, o99, c1, c2, c3, c97,
c99
    from labels
    order by paramn, avisitn, statord;
quit;

proc sort data=labels;
    by paramn avisitn statord;
run;

data paging;
    set labels;
    by paramn avisitn ord statord;
    if first.paramn /*or first.fl*/ or ln>11 or (paramn in(21 22) and
ln>5) then ln=1;
    else ln+1;
    if ln=1 then page+1;

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flag=1;

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

options number nodate orientation=landscape 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.tl06324 (read) ;
ods results off;
ods rtf toc_data
file="/cvn/projects/prj/data/000000106324/TFL/&TFL_Part./&tflno..rtf"
style=tl06324 startpage=yes headery=1440 footery=1440 ;
ods noproctitle;

%do i=1 %to &page;
%let subpage=2;

%do j=1 %to &subpage;

title ;
footnote;
%let wd=0;
%let supfl=0;
%let maxpage=%eval(&page*&subpage);

%let npage=%eval(&subpage*&i+&j-&subpage);

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

CALL SYMPUT('PARAMN',PARAMN); /* 11) JMH 16Sep2014 */

/* Amend title as needed */
_firtitl="Table 15.2.6.18 Summary of Spirometry Measurements
- Safety Population";
_upcas=(length("Path: &TFLpath.")-
length(compress("Path:&TFLpath.",'ABCDEFGHIJKLMNOPQRSTUVWXYZ')))/2;
len=&blankn.-length("(Page &npage of &maxpage)");
if eof then do;
IF INDEX(PARAMC,"super") THEN CALL SYMPUT('SUPFL',"1"); /* 6)
JR 04Aug2014 */
call symput('_FSRTITL', trim(left(_firtitl)));
call symput('_blankn', compress(put(len,best.)));

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        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;
/* Update with your variables as needed */
proc report data = comp headline headskip missing nowd split = '$' %if
&i=1 and &j=1 %then %do; contents=' ' %end; %else %do; contents=' '
%end;;;
        column flag page paramn PARAMC avisitn /*paramc*/ ord visit statord
stat %if &j=1 %then %do; ("THS 2.2 $(N=&trt1) &linebot" o1 c1) ("CC
$(N=&trt2) &linebot" o2 c2) ("SA $(N=&trt3) &linebot" o3 c3) %end;
/* 8) JR 04Aug2014 */

        %else %if &j=2 %then %do; ("Enrolled Not$Randomized$(N=&trt97)
&linebot" o97 c97) ( "Overall$Safety$(N=&trt99) &linebot" o99 c99) %end;;

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        define flag          / order order=internal noprint;
        define page          / order order = internal noprint;
        define paramn        / order order = internal noprint;
define avisitn      / order order=internal noprint;
        define ord           / order order = internal noprint;
        define statord       / order order = internal noprint;
        define paramc        / group style={just=l cellwidth=2.5cm}
style(header)={just=c} 'Parameter (units)';
        define visit         / group style={just=l cellwidth=1.3cm}
style(header)={just=c} 'Study Day';
        %IF &PARAMN LT 21 %THEN %DO; /* 11) JMH 16Sep2014 */
        define stat          / display style={just=l
cellwidth=/*1.7*/1.9cm} style(header)={just=c}'Statistic'; /* 11) JMH
16Sep2014 */
        %if &j=1 %then %do;
        define o1            / display style={just=c cellwidth=1.5cm}
style(header)={just=c};
        define c1            / display style={just=c cellwidth=1.5cm}
style(header)={just=c};
        define o2            / display style={just=c cellwidth=1.5cm}
style(header)={just=c};
        define c2            / display style={just=c cellwidth=1.5cm}
style(header)={just=c};
        define o3            / display style={just=c cellwidth=1.5cm}
style(header)={just=c};

```

```

        define c3          / display style={just=c cellwidth=1.5cm}
style(header)={just=c};
    %end;
    %else %if &j=2 %then %do;
        define o97        / display style={just=c cellwidth=1.5cm}
style(header)={just=c};
        define c97        / display style={just=c cellwidth=1.5cm}
style(header)={just=c};
        define o99        / display style={just=c cellwidth=1.5cm}
style(header)={just=c};
        define c99        / display style={just=c cellwidth=1.5cm}
style(header)={just=c};
    %end;
/* 11) START JMH 16Sep2014 */
    %END;
    %ELSE %DO;
        DEFINE STAT      / DISPLAY STYLE={JUST=L CELLWIDTH=2.5CM}
STYLE(HEADER)={JUST=C}'Statistic';
        %IF &J=1 %THEN %DO;
            DEFINE O1      / DISPLAY STYLE={JUST=C CELLWIDTH=1.5CM}
STYLE(HEADER)={JUST=C};
            DEFINE C1      / DISPLAY STYLE={JUST=C CELLWIDTH=1CM}
STYLE(HEADER)={JUST=C};
            DEFINE O2      / DISPLAY STYLE={JUST=C CELLWIDTH=1.5CM}
STYLE(HEADER)={JUST=C};
            DEFINE C2      / DISPLAY STYLE={JUST=C CELLWIDTH=1CM}
STYLE(HEADER)={JUST=C};
            DEFINE O3      / DISPLAY STYLE={JUST=C CELLWIDTH=1.5CM}
STYLE(HEADER)={JUST=C};
            DEFINE C3      / DISPLAY STYLE={JUST=C CELLWIDTH=1CM}
STYLE(HEADER)={JUST=C};
        %END;
        %ELSE %IF &J=2 %THEN %DO;
            DEFINE O97      / DISPLAY STYLE={JUST=C CELLWIDTH=1.5CM}
STYLE(HEADER)={JUST=C};
            DEFINE C97      / DISPLAY STYLE={JUST=C CELLWIDTH=1CM}
STYLE(HEADER)={JUST=C};
            DEFINE O99      / DISPLAY STYLE={JUST=C CELLWIDTH=1.5CM}
STYLE(HEADER)={JUST=C};
            DEFINE C99      / DISPLAY STYLE={JUST=C CELLWIDTH=1CM}
STYLE(HEADER)={JUST=C};
        %END;
    %END;
/* 11) END JMH 16Sep2014 */

```

```

break before flag / page %if &i=1 %then %do;
contents("&_fsrtitl" %end; %else %do; contents='' %end;;

```

```

break after page / page;

```

```

compute after ord;
    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 "&linebot";
endcomp;

compute after _page_ / style={just=left protectspecialchars=off
pretext="&linetop."};
  line "Note: CC = Conventional cigarettes; SA = Smoking
abstinence; THS = Tobacco Heating System.";
/*      line 'Note: Enrolled not randomized refers to all subjects
enrolled but not randomized. Overall Safety refers to enrolled subjects
exposed to THS 2.2.'; */
  line 'Note: Enrolled Not Randomized refers to all subjects
enrolled but not randomized. Overall Safety refers to enrolled subjects
exposed to THS 2.2.'; /* 7) JR 04Aug2014 */
  line 'Note: Percentages are based on the number of subjects
indicated in the column header (N).';
  line 'Note: Change is change from baseline, where baseline is
the last assessment prior to first product use in CC/THS 2.2 arms on Day
1 or last assessment prior to 06:29 AM in SA arm on Day 1.'; /* 12) JR
18Sep2014 */
/*      line 'Note: Change is change from baseline, where baseline is
defined as the last assessment prior to 06:29 AM on Day 1.';*/
  %IF &SUPFL=1 %THEN %DO; /* 6) JR 04Aug2014 */
  LINE "Note: 1: Ratio is dervied in analysis datasets.";
  %END;
  line ' ';
  line 'Appendix 15.3.6.8';
  line "Path: &TFLpath." &_blankn.*"\~\~" "(Page &npage of
&maxpage)"; ;
  line "Program Run: &sysdate   &sysuserid   Program Status:
&status";
endcomp;

run;
%end;
%end;
ods rtf close;
ods results on;
ods path sashelp.tmplmst (read);

%mend ;

%outrtf(blankn=70, halfblnk=N);

ods listing;
proc printto print = "&table./T_15_02_06_18.lst" new;
run;

```

```
proc contents data = table.T_15_02_06_18 varnum;  
run;  
ods listing close;
```

```
proc printto ; run;  
*=====;  
* END OF PROGRAM CODE ;  
*=====;
```