

```

%_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_adv7.sas;
%put NOTE: Purpose              : table of adverse events by organ class
and preferred term and severity;
%put NOTE: ;
%put NOTE: Input Data           : ADAM.ADAE;
%put NOTE: Output               : t_15_2_6_7(ae);
%put NOTE: Macros Called        : _MPRINTTO;
%put NOTE: ;
%put NOTE: Programmed by        : cvn_jhardman;
%put NOTE: Creation Date        : 2014-07-25;
%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: 16Sep2014   JMH       1) Updated to deal with missing
severities;
%put NOTE:
=====;
options notes source source2 nofullstimer validvarname=upcase missing='
';
ods _all_ close;
ods listing;

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

/* Standard - just change the number to match the listing you're working
on. Also change the letters in the*/
/* bracket, eg ccb = current cigarette brands. Make sure to do this at
the top of the code too. */

      %let tflno=T_15_02_06_07(ae);

/* Standard - leave this */
%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str(/));

/* Standard - leave this */
data _null_;

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    tmp("&TFL_Part";
    if tmp not in ("dev" "qc") then call symput("TFL_Part", "prod");
    call symput('TFLpath', compress("&_SASPROGRAMFILE", ""));
run;

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

data adsl;
  set adam.adsl;
  where saffl = 'Y';
  attrib headtext1 length =$200.
           headorder1 length=8.;

  if missing(trt01a) or trt01a='Screen failure' then delete;
  if index(trt01a,'Enroll') then do;
    trt01an=98;
    trt01a='Exposed not randomized';
  end;
  headorder1=trt01an;
  headtext1=trt01a;
  output;
  trt01an=99;
  headorder1=99;
  trt01a='Overall Safety';
  headtext1='Overall Safety';
  output;
run;

data dumtrts; /*Use this to output any columns for which N=0*/
  attrib headtext1 length =$200.
           headorder1 length=8.;

  headorder1=1;
  headtext1='THS 2.2';
  output;
  headorder1=2;
  headtext1='CC';
  output;
  headorder1=3;
  headtext1='SA';
  output;
  headorder1=98;
  headtext1='Exposed not randomized';
  output;
run;

proc freq data=adsl noprint;
  table headorder1*headtext1/ out =tot(drop=percent);
run;

data tot2;
  merge tot(in=a) dumtrts(in=b);

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        by headorder1 headtext1;
        if b and not a then count=0;
        call symput('trt' || compress(put(headorder1,best.)),
compress(count));
run;

```

```

/*Now bring in AE data*/
data ae(drop=aebodsys1 aeecod1);
    set adam.adae(rename =(aebodsys=aebodsys1 aeecod=aeecod1));
    where saffl='Y' and anyae1='Y' and anl01fl='Y';
    attrib headtext1 length =$200.
                headorder1 length=8.
                aebodsys length=$200.
                aeecod length=$200.;

    aebodsys=aebodsys1;
    aeecod=aeecod1;
/* 1) Start JMH 16Sep2014 */
    IF MISSING(AESEV) THEN DO;
        AESEVN=3;
        AESEV='SEVERE';
    END;
/* 1) End JMH 16Sep2014 */
    if missing(trta) or trta='Screen failure' then delete;
    if missing(aebodsys) then aebodsys='Missing';
    if index(trta,'Enroll') then do;
        trtan=98;
        trta='Exposed not randomized';
    end;
    headorder1=trtan;
    headtext1=trta;
    output;
    headorder1=99;
    headtext1='Overall Safety';
    output;
run;

```

```

proc sort data=ae;
    by headorder1 headtext1;
run;

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data adverse02;
    set ae;
run;

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proc sort data=adsl; by usubjid; run; /*This will be used later for
number of subjects treated*/

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proc sort data=adverse02; by headorder1 headtext1; run;
* Create an additional observation with missing VOL value for each table
section;
* This is used to ensure that all table rows are output, even for rows
with no adverse events;

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```

data adverse03;
  set adverse02;
  by headorder1 headtext1;
  output;
  aebodsys='Any Adverse events';
  output;
  if first.headorder1 then do;
    subjid = .;
    aebodsys='not needed';
  output;
  end;
run;
/*Number of AE's within severities*/ /*Only keep the highest severity AE
for each subject*/
proc sort data=adverse03 out=adverse03sevs(keep=headorder1 headtext1
subjidn aebodsys aesevn aesev);
  by headorder1 headtext1 subjidn aebodsys descending aesevn;
run;

proc sort data=adverse03sevs nodupkey out=sevs9;
  by headorder1 headtext1 subjidn aebodsys;
run;

proc sort data=adverse03;
  by headorder1 headtext1 subjidn aebodsys aesevn aesev;
run;

data adverse03all;
  merge adverse03 sevs9(in=a);
  by headorder1 headtext1 subjidn aebodsys aesevn aesev;
  if a;
run;

/*Only keep most severe AE within each preferred term */
proc sort data=adverse03 out=adverse03sevspref(keep=headorder1 headtext1
subjidn aebodsys aedecod aesevn aesev);
  by headorder1 headtext1 subjidn aebodsys aedecod descending aesevn;
run;

proc sort data=adverse03sevspref nodupkey out=sevs9pref;
  by headorder1 headtext1 subjidn aebodsys aedecod;
run;

proc sort data=adverse03;
  by headorder1 headtext1 subjidn aebodsys aedecod aesevn aesev;
run;

data adverse03allpref;
  merge adverse03 sevs9pref(in=a);
  by headorder1 headtext1 subjidn aebodsys aedecod aesevn aesev;
  if a;
run;

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```

/*All data except All Adverse Events*/
proc freq data=adverse03(where=(aebodsys ne 'Any Adverse events'))
noprint;
    tables headorder1*headtext1*aebodsys*aedecod*aesevn*aesev /
out=totsev(rename=(count=tot) drop=percent);
run;

/*Only for All Adverse Events*/
proc freq data=adverse03(where=(aebodsys eq 'Any Adverse events'))
noprint;
    tables headorder1*headtext1*aebodsys*aesevn*aesev /
out=ALLtotsev(rename=(count=tot) drop=percent);
run;

/**** getting number of subjects studied within relationships****/

    /*All data except All Adverse Events*/
proc sort data=adverse03allpref(where=(aebodsys ne 'Any Adverse
events')) out=nae3_sev nodupkey;
    by headorder1 headtext1 aebodsys aedecod aesev subjdn;
run;

proc freq data=nae3_sev(where=(aebodsys ne 'Any Adverse events'))
noprint;
    tables headorder1*headtext1*aebodsys*aedecod*aesevn*aesev /
out=ntotsev(rename=(count=ntot) drop=percent);
run;

/*Only for All Adverse Events*/
proc sort data=adverse03all(where=(aebodsys eq 'Any Adverse
events')) out=allnae3_sev nodupkey;
    by headorder1 headtext1 aebodsys aesev subjdn;
run;

proc freq data=allnae3_sev(where=(aebodsys eq 'Any Adverse events'))
noprint;
    tables headorder1*headtext1*aebodsys*aesevn*aesev /
out=ALLntotsev(rename=(count=ntot) drop=percent);
run;

data sevcounts1;
    merge totsev ntotsev;
    by headorder1 headtext1 aebodsys aedecod aesevn aesev;
run;

data sevcounts1all;
    merge alltotsev allntotsev;
    by headorder1 headtext1 aebodsys aesevn aesev;
run;

data sevcounts;

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        set sevcounts1 sevcounts1all;
        if aesevn=1 then sort3=2;
        else if aesevn=2 then sort3=3;
        else if aesevn=3 then sort3=4;
        else if missing(aesevn) then sort3=1.5;

        sev=aesev;

        if aebodsys='Any Adverse events' then sort2=1;
        else sort2=2;
        drop aesev aesevn;
run;

/** Number of Ae's overall **/
proc freq data=adverse03 noprint;
    tables headorder1*headtext1*aebodsys / out=ovall(rename=(count=tot)
drop=percent);
run;

/** getting number of subjects studied ***/
proc sort data=adverse03 out=nae3 nodupkey;
    by headorder1 headtext1 aebodsys subjidn;
run;

proc freq data=nae3 noprint;
    tables headorder1*headtext1*aebodsys / out=novall(rename=(count=ntot)
drop=percent);
run;

data otot;
    merge ovall novall;
    by headorder1 headtext1 aebodsys;
run;

/** number of subjects and aes in overall **/
data overall;
    set otot;
        if aebodsys='Any Adverse events' then sort2=1;
        else sort2=2;
    sort3=0;
run;

/** bodsys ordered ***/
proc freq data=adverse03 noprint;
    tables headorder1*headtext1*aebodsys / out=taebod(rename=(count=tot)
drop=percent);
run;

/** getting number of subjects studied ***/
proc sort data=adverse03 out=nae2 nodupkey;
    by headorder1 headtext1 aebodsys subjidn;
run;

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```

proc freq data=nae2 noprint;
    tables headorder1*headtext1*aebodsys / out=aebod(rename=(count=ntot)
drop=percent);
run;

data body;
    merge taebod aebod;
    by headorder1 headtext1 aebodsys;
run;

data body2;
    set body;
        if aebodsys='Any Adverse events' then do; sort2=1; sort3=0;
end;
        else do; sort2=2; sort3=0; end;
run;

/** bodysystem by prefterm **/
proc freq data=adverse03 noprint;
    tables headorder1*headtext1*aebodsys*aedecod /
out=preft(rename=(count=tot) drop=percent);
run;

/** getting number of subjects studied ***/
proc sort data=adverse03 out=npae2 nodupkey;
    by headorder1 headtext1 aebodsys aedecod subjidn;
run;

proc freq data=npae2 noprint;
    tables headorder1*headtext1*aebodsys*aedecod /
out=npref(rename=(count=ntot) drop=percent);
run;

data prefterm;
    merge preft npref;
    by headorder1 headtext1 aebodsys aedecod;
run;

data aedecod;
    set prefterm;
        if aebodsys='Any Adverse events' then do; sort2=1; sort3=0;
end;
        else do; sort2=2; sort3=1; end;
run;

data all;
    set overall body2 aedecod sevcounts;
        if aebodsys='not needed' then delete;
        if aebodsys='Any Adverse events' then sort2=1;
        else sort2=2;
run;

proc sort data=all out=all2;
    by headorder1 headtext1 sort2 aebodsys aedecod;

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run;

data format;
  merge all2(in=a) dumtrts tot;
  by headorder1 headtext1;
  if not a then do;
    sort2=1;
    sort3=0;
    aebodsys='Any Adverse events';
    flag=1;
    flagc='dum';
  end;
run;

data format2;
  set format;
  attrib text text2 text3 format=$200.;
  /* Percentage of subjects*/
  if not missing(count) then percent=put((ntot/count)*100,8.1);
  else percent='0';

  /*n value*/
  if missing(ntot) then text='0';
  else text=put(ntot,3.);

  /*% value*/
  if missing(percent) then text3='';
  else if percent=100 then text3='(100 %)';
  else if percent ge 10 then text3='(
'||compress(put(percent,8.1))||'%)';
  else if percent lt 10 then text3='(
'||compress(put(percent,8.1))||'%)';

  /*events value*/
  if missing(tot) then text2='';
  else text2=compress(put(tot,3.));

  drop percent;
run;

proc sort data=format2 nodupkey; by headorder1 headtext1 aebodsys
tot ntot sort2 sort3 aedecod sev count text text2 text3; run;

proc sort data=format2; by headorder1 headtext1 sort2 aebodsys sort3
aedecod sev; run;

proc sort data=format2 out=format3; by sort2 aebodsys sort3 aedecod
sev; run;

/*Transpose n values*/
proc transpose data=format3 out=nformat prefix=n;
  by sort2 aebodsys sort3 aedecod sev;
  var text;

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        id headorder1;
        idlabel headtext1;
run;

        /*Transpose % values*/
        proc transpose data=format3 out=pformat prefix=p;
        by sort2 aebodsys sort3 aedecod sev;
        var text3;
        id headorder1;
        idlabel headtext1;
run;

        /*Transpose events values*/
        proc transpose data=format3 out=eformat prefix=e;
        by sort2 aebodsys sort3 aedecod sev;
        var text2;
        id headorder1;
        idlabel headtext1;
run;

        data tformat;
            merge nformat eformat pformat;
            by sort2 aebodsys sort3 aedecod sev;
run;

data tsort2;
    set tformat;
        n99n=input(n99,8.);
        e99n=input(e99,8.);
run;

proc sort data=tsort2 out=allsorts;
    by sort2 sort3 descending n99n descending e99n aebodsys;
run;

/* Create a variable to sort body systems by most frequent - ODD*/
data sorting;
    set allsorts(where=(sort2=2 and sort3=0) keep=sort2 aebodsys sort3
n99n e99n);
    by sort2 sort3 descending n99n descending e99n aebodsys;
    if first.aebodsys then odd+1;
    keep sort2 aebodsys odd;
run;

/*Merge this back onto data so that ODD (the ordering variable for body
systems) is merged onto all preferred terms*/
proc sort data=allsorts; by sort2 aebodsys; run;
proc sort data=sorting; by sort2 aebodsys; run;

data sorting2;
    merge sorting allsorts;
    by sort2 aebodsys;
run;

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proc sort data=sorting2;
by sort2 odd sort3 descending n99n descending e99n aedecod;
run;

/*Now create a variable to sort preferred terms within each body system
by most frequent - ODD2*/
data sorting3;
set sorting2(where=(sort2=2 and sort3=1) keep=sort2 aebodsys odd
sort3 aedecod n99n e99n);
by sort2 odd sort3 descending n99n descending e99n aedecod;
if first.aedecod then odd2+1;
keep sort2 aebodsys odd sort3 aedecod odd2;
run;

/*Merge this back onto data so that ODD2 can be used to order the
preferred terms within body systems*/
proc sort data=sorting2; by sort2 odd aebodsys sort3 aedecod; run;
proc sort data=sorting3; by sort2 odd aebodsys sort3 aedecod; run;

data sorting4;
merge sorting2 sorting3;
by sort2 odd aebodsys sort3 aedecod;
run;

proc sort data=sorting4 out=final;
by sort2 odd sort3 odd2;
run;

/*Get a list of aedecods to merge on blank severity rows*/
proc sort data=final(where=(sort3 ne 0)) nodupkey out=terms(keep=aebodsys
sort2 aedecod odd odd2);
by aebodsys aedecod;
run;

data terms2;
set terms;
sort3=2;
output;
sort3=3;
output;
sort3=4;
output;
run;

proc sort data=final;
by sort2 aebodsys sort3 aedecod;
run;

proc sort data=terms2;
by sort2 aebodsys sort3 aedecod;
run;

data final2;

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        merge final(in=a) terms2(in=b);
        by sort2 aebodsys sort3 aeDecod;
        if a or b;
run;

proc sort data=final2;
    by sort2 odd aebodsys odd2 aeDecod;
run;

data final3;
    set final2;
    attrib column format=$200. label='AE text formatted'
            column1 format=$200. label='AE text'    ;

attrib wrap length = $200;
wrap = aeDecod;

if sort2=2 and sort3=1 then do;
i=21; *this is the max length allowed on a single line - change as
needed;
if length(wrap)>i then do;
    nwraps = int(length(wrap)/i); *calculate how many lines the text will
wrap over;
    do while(nwraps > 0);
        fin=0;
        j = i*nwraps; *calculate starting point - loop will cycle backwards
from this point looking for a space;
        k=j;
        do while(fin=0 and j gt 1);
            if j = k and substr(wrap,j,1)=' ' then wrap =
substr(wrap,1,j-1) || "|n |S={foreground=white} . |S={} " ||
substr(wrap,j+1);

            if substr(wrap,j,1)=' ' and j ne k then do;
                wrap=substr(wrap,1,j-1) || "|n |S={foreground=white} . |S={} " ||
substr(wrap,j+1);
                fin=1;
            end;
            else j=j-1; *no space found - move back one character;
        end;
        nwraps=nwraps-1; *once this wrap is handled, move up a line until all
are handled (when nwraps = 0);
    end;
end;
end;

if sort2=1 then do;
    if sort3=0 then column1='Adverse events';
    else if sort3=1.5 then column1="Missing";
    else if sort3=2 then column1="Mild";
    else if sort3=3 then column1="Moderate";
    else if sort3=4 then column1="Severe";
end;

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        else if sort2=2 then do;
            if sort3=0 then column1=left(trim(aebodsys));
            else if sort3=1 then column1=trim(aedecod);
            else if sort3=2 then column1="Mild";
            else if sort3=3 then column1="Moderate";
            else if sort3=4 then column1="Severe";
        end;

        if sort2=1 then do;
            if sort3=0 then column='Adverse events';
            else if sort3=1.5 then column="|S={foreground=white} .
|S={} Missing";
            else if sort3=2 then column="|S={foreground=white} .
|S={} Mild";
            else if sort3=3 then column="|S={foreground=white} .
|S={} Moderate";
            else if sort3=4 then column="|S={foreground=white} .
|S={} Severe";
        end;
        else if sort2=2 then do;
            if sort3=0 then column=left(trim(aebodsys));
            else if sort3=1 then column="|S={foreground=white} .
|S={} "||trim(wrap);
            else if sort3=2 then column="|S={foreground=white} .
|S={} Mild";
            else if sort3=3 then column="|S={foreground=white} .
|S={} Moderate";
            else if sort3=4 then column="|S={foreground=white} .
|S={} Severe";
        end;

        if sort2=1 and not missing(aedecod) then delete;
run;

proc sort data=final3(where=(sort3=0)) out=blanks;
    by sort2 sort3;
run;

data blanks1;
    set blanks;
    if (n1=0 or missing(n1)) and (e1=0 or missing(e1)) then
del1=1;
    if (n2=0 or missing(n2)) and (e2=0 or missing(e2)) then
del2=1;
    if (n3=0 or missing(n3)) and (e3=0 or missing(e3)) then
del3=1;
    if (n98=0 or missing(n98)) and (e98=0 or missing(e98)) then
del98=1;
    if (n99=0 or missing(n99)) and (e99=0 or missing(e99)) then
del98=1;
    keep sort2 sort3 aebodsys del: odd odd2;
run;

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proc sort data=final3; by sort2 odd aebodsys; run;
proc sort data=blanks1; by sort2 odd aebodsys; run;

data final3a;
    merge final3 blanks1;
    by sort2 odd aebodsys;
run;

proc sort data=final3a(where=(sort3=1)) out=pblanks;
    by sort2 sort3;
run;

data pblanks1;
    set pblanks;
    if (n1=0 or missing(n1)) and (e1=0 or missing(e1)) then
pdell1=1;
    if (n2=0 or missing(n2)) and (e2=0 or missing(e2)) then
pdell2=1;
    if (n3=0 or missing(n3)) and (e3=0 or missing(e3)) then
pdell3=1;
    if (n98=0 or missing(n98)) and (e98=0 or missing(e98)) then
pdell98=1;
    if (n99=0 or missing(n99)) and (e99=0 or missing(e99)) then
pdell99=1;
    keep sort2 sort3 aebodsys aedecod pdel: odd odd2;
run;

proc sort data=final3a; by sort2 odd odd2 aebodsys aedecod; run;
proc sort data=pblanks1; by sort2 odd odd2 aebodsys aedecod; run;

data final3b;
    merge final3a pblanks1;
    by sort2 odd odd2 aebodsys aedecod;
run;

proc sort data=final3b;
    by sort2 odd aebodsys odd2 sort3 ;
run;

data labels;
    set final3b;
    attrib n1 label = "n"
           n2 label = "n"
           n3 label = "n"
           n98 label = "n"
           n99 label = "n"
           p1 label = '(%)'
           p2 label = '(%)'
           p3 label = '(%)'
           p98 label = '(%)'
           p99 label = '(%)'
           e1 label = "Events"
           e2 label = "Events"
           e3 label = "Events"

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        e98 label = "Events"
        e99 label = "Events";

        if sort3=0 then do;
            del1=.;
            del2=.;
            del3=.;
            del98=.;
        end;
        if sort3=1 then do;
            pdel1=.;
            pdel2=.;
            pdel3=.;
            pdel98=.;
        end;

run;

data final4;
    set labels;

    array a [5] n1 n2 n3 n98 n99;
    array b [5] e1 e2 e3 e98 e99;
        array c [5] del1 del2 del3 del98 del99;
        array d [5] pdel1 pdel2 pdel3 pdel98 pdel99;

    do i=1 to 5;
        if c[i] ne 1 and d[i] ne 1 then do;
            if missing(a[i]) then a[i] ='0';
        end;
        if length(left(strip(b[i])))=2 then b[i]=
'|S={foreground=white}.|S={}' || left(strip(b[i]));
        if length(left(strip(b[i])))=1 then b[i]=
'|S={foreground=white} .|S={}' || left(strip(b[i]));
    end;

        flag=1;

run;

proc sql noprint;
    create table table.T_15_02_06_07 as
        select column, column1, aebodsys, aedecod, n1, p1, e1, n2, p2, e2,
n3, p3, e3, n98, p98, e98, n99, p99, e99
        from final4
        order by sort2, odd, aebodsys, odd2, sort3;
quit;

data paging;
    set final4;
    by sort2 odd aebodsys odd2 sort3;
    if first.odd2 and ln gt 8 then ln=1;
    else ln+1;

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    if ln=1 then page+1;
    call symput("page",compress(put(page,best.)));

        retain sort4;
        if first.aebodsys then sort4+1;
run;

/* Standard - leave this */
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;
/* Standard - macro for paging */
%macro outrtf(blankn=70, halfblnk=N);

%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/* contents*/
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;

title ;
footnote;
%let wd=0;
ods proclabel = ' ';

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

    /* Amend title as needed */
    _firtitl="Table 15.2.6.7 Summary of Adverse Events by System
Organ Class, Preferred Term and Severity -";
    _upcas=(length("Path: &TFLpath.")-
length(compress("Path:&TFLpath.",'ABCDEFGHIJKLMNOPQRSTUVWXYZ')))/2;
    len=&blankn.-length("(Page &i of &page)");
    if eof then do;
        call symput('_FSRTITL', trim(left(_firtitl)));
        call symput('_blankn', compress(put(len,best.)));
    end;
    drop _firtitl _upcas len;
run;

```

```
ods listing close;
```

```
* 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 headsip missing nowd split = '$' %if
&i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;
column flag page sort2 odd sort4 odd2 sort3 ("System Organ Class" column)
("THS 2.2 $(N=&trt1) &linebot" n1 p1 e1) ("CC$(N=&trt2) &linebot" n2 p2
e2)
```

```
        ("SA $(N=&trt3) &linebot" n3 p3 e3) ("Exposed
Not$Randomized$(N=&trt98) &linebot" n98 p98 e98)
```

```
        ("Overall$Safety$(N=&trt99) &linebot" n99 p99 e99); ;
define flag          / order order = internal noprint;
define page          / order order = internal noprint;
define sort2         / order order=internal noprint;
define odd           / order order=internal noprint;
define sort4         / order order=internal noprint;
define sort3         / order order=internal noprint;
define odd2          / order order=internal noprint;

        define column      / group style={just=left cellwidth=3.4cm}
style(header)={just=center} "Preferred Term";
        define n1          / display style={just=d cellwidth=0.5cm}
style(header)={just=right} ;
        define p1          / display style={just=d cellwidth=1.2cm}
style(header)={just=center} ;
        define e1          / display
style={JUST=left cellwidth=1.2cm} style(header)={just=l} ;
        define n2          / display style={just=d cellwidth=0.5cm}
style(header)={just=right} ;
        define p2          / display style={just=d cellwidth=1.2cm}
style(header)={just=center} ;
        define e2          / display style={just=left
cellwidth=1.2cm } style(header)={just=l} ;
        define n3          / display style={just=d cellwidth=0.5cm}
style(header)={just=right} ;
        define p3          / display style={just=d cellwidth=1.2cm}
style(header)={just=center} ;
        define e3          / display
style={just=left cellwidth=1.2cm} style(header)={just=l} ;
        define n98         / display style={just=d cellwidth=0.5cm}
style(header)={just=right} ;
        define p98         / display style={just=c cellwidth=1.2cm}
style(header)={just=center} ;
```



```

        define e98                                / display style={just=left
cellwidth=1.2cm} style(header)={just=1} ;
        define n99                                / display style={just=d cellwidth=0.5cm}
style(header)={just=right} ;
        define p99                                / display style={just=d cellwidth=1.2cm}
style(header)={just=center} ;
        define e99                                / display style={JUST=left
cellwidth=1.2cm} style(header)={just=1} ;

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

        break after page / page;

        compute after sort4;
            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 "\b\fs24\sa24Safety Population";
            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: Exposed Not Randomized refers to all subjects
exposed to THS 2.2 but not randomized. Overall Safety refers to all
subjects exposed to THS 2.2.';
            line 'Note: Percentages are based on the number of subjects
indicated in the column header (N).';
            line ' ';
            line 'Appendix 15.3.6.1.1';
            line "Path: &TFLpath." &_blankn.*"\~\~" "(Page &i of &page)";
;
            line "Program Run: &sysdate &sysuserid Program Status:
&status";
        endcomp;
run;
%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_07.lst" new;
run;

proc contents data = table.T_15_02_06_07 varnum;
run;
ods listing close;

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