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%_mprintto;
options notes nosource;
proc datasets lib=work nolist memtype=data kill; quit;
%put NOTE:
=====;
%put NOTE: Covance Study Number : 000000106326;
%put NOTE: Client Protocol ID   : ZRHM-PK-05-JP;
%put NOTE: Program Name        : t_vit.sas;
%put NOTE: Purpose              : table of vital signs;
%put NOTE: ;
%put NOTE: Input Data           : ADAM.ADVS ADAM.ADSL;
%put NOTE: Output               : t_15_2_6_13(vs);
%put NOTE: Macros Called        : _MPRINTTO;
%put NOTE: ;
%put NOTE: Programmed by        : cvn_jhardman;
%put NOTE: Creation Date        : 2014-08-07;
%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: 12Aug2014   JMH       1) Presented ENR and amended column
widths;
%put NOTE: 12Aug2014   JMH       2) Amended column headers;
%put NOTE: 24Sep2014   JR        3) Amended baseline footnote;
%put NOTE:
=====;
options notes source source2 nofullstimer validvarname=upcase missing='
';
ods _all_ close;
ods listing;

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

%let tflno=T_15_02_06_13(vs);

%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;

*****;

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* read in data ;
*****;

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

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

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

    trtseqa=1;
    trtseqa='THS 2.2 Menthol - mCC';
    output;
    trtseqa=2;
    trtseqa='mCC - THS 2.2 Menthol';
    output;
    trtseqa=3;
    trtseqa='THS 2.2 Menthol - NRT gum';
    output;
    trtseqa=4;
    trtseqa='NRT gum - THS 2.2 Menthol';
    output;
    trtseqa=5;
    trtseqa='Enrolled not randomized';
    output;
run;

data tot2;
    merge tot(in=a) dumtrts(in=b);
    by trtseqa trtseqa;
    if a or b;
    if b and not a then count=0;
    call symput('trt' || compress(put(trtseqa,best.))),
compress(count));
run;

/*Bring in appropriate data from ADVS*/
data advs;
    set adam.advs;
    where saffl = 'Y' and anl01fl='Y';
    if missing(trtseqa) then delete;
    if index(paramcd,'SU')=0 then delete;

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        if index(trtseqa,'Exposed') then delete;
        output;
        trtseqa=99;
        trtseqa='Overall Safety';
        output;
run;

data advs_orig;
    set advs;
    if avisitn=1 then ord=1; /*Screening*/
    else if avisitn=99 then ord=2; /*Admission (Day-1)*/
    else if avisitn=100 then ord=3; /*Day 0*/
    else if avisitn=101 then ord=4; /*Day 1*/
    else if avisitn=102 then ord=6; /*Day 2*/
    else if avisitn=103 then ord=8; /*Day 3*/
    else if avisitn=104 then ord=10; /*Discharge*/
    if avisitn=99 then statval=base;
    else statval=aval;
run;

data advs_chg;
    set advs(where=(avisitn in(100 101 102 103 104))); /*Only keep days
after baseline*/
    if avisitn=100 then ord=3.5; /*Change from baseline to Day 0*/
    else if avisitn=101 then ord=5; /*Change from Baeline to Day 1*/
    else if avisitn=102 then ord=7; /*Change from Baeline to Day 2*/
    else if avisitn=103 then ord=9; /*Change from Baeline to Day 3*/
    else if avisitn=104 then ord=11; /*Change from Baeline to
Discharge*/
    statval=chg;
run;

data advs_all;
    set advs_orig advs_chg;
run;

proc sort data=advs_all;
    by trtseqa trtseqa;
run;

data all;
    merge advs_all(in=a) dumtrts(in=b);
    by trtseqa trtseqa;
    if a or b;
    if b and not a then statval='';
run;

proc sort data=all;
    by trtseqa trtseqa paramn ord param avalu avisit;
run;

proc univariate data=all noprint;
    var statval;
    by trtseqa trtseqa paramn ord param avalu avisit;

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        output out=results01 n=n1 mean=mean1 std=std1 median=med1 min=min1
max=max1;
        run;

data results02;
    set results01;
    attrib meansd length=$20.
            minmax length=$20.
            n        length=$20.
            median   length=$20.;

    n = left(compress(put(n1,8.)));
        if n1 ge 4 then do;
            if not missing(med1) then median =
left(compress(put(round(med1,0.1),8.1)));
            if not missing(mean1) and not missing(std1) then meansd =
left(compress(put(round(mean1,0.1),8.1))) || ' ('
||compress(put(0.01*ceil(std1/0.01),8.2)) || ')';
            if not missing(min1) and not missing(max1) then minmax =
left(compress(put(round(min1,1),8.))) || ', ' ||
left(compress(put(round(max1,1),8.)));
        end;
        else if n1 gt 0 and n1 lt 4 then do;
            median='NC';
            meansd='NC';
            minmax='NC';
        end;
        else if n1=0 then do;
            median='';
            meansd='';
            minmax='';
        end;

    drop n1 mean1 std1 med1 min1 max1;

    if index(meansd,'-0.0') then meansd=tranwrd(meansd,'-0.0','0.0');
run;

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

    if avalu='BREATHS/MIN' then avalu=lowcase(tranwrd(avalu,'/', '$n'));
        if avalu='BEATS/MIN' then avalu=lowcase(avalu);

    if paramn=1 then paramc=strip(param)||' ('||strip(avalu)|| ')';
    else if paramn=2 then paramc=strip(param)||' ('||strip(avalu)||')';
    else if paramn=3 then paramc=strip(param)||' ('||strip(avalu)||')';
    else if paramn=4 then paramc=strip(param)||' ('||strip(avalu)||
')';

    if ord=1 then visit=avisit;
    else if ord=2 then visit=avisit;

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else if ord=3 then visit=avisit;
else if ord=3.5 then visit='Change from Day -1 on Day 0';
else if ord=4 then visit=avisit;
else if ord=5 then visit='Change from Day -1 on Day 1';
else if ord=6 then visit=avisit;
else if ord=7 then visit='Change from Day -1 on Day 2';
else if ord=8 then visit=avisit;
else if ord=9 then visit='Change from Day -1 on Day 3';
else if ord=10 then visit=avisit;
else if ord=11 then visit='Change from Day -1 on Day 4/Discharge';

if missing(ord) and missing(paramn) then do;
    ord=1;
    visit='Screening';
    paramn=1;
    paramc='Supine Systolic Blood Pressure (mmHg)';
end;
run;

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

proc transpose data=results03 out=results04 prefix=t name=varname;
    by paramn paramc ord visit;
    var n meansd median minmax;
    id trtseqan;
    idlabel trtseqa;
run;

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

    drop varname;
run;

data results06;
    set results05;
    if stat='n' then do;
        if missing(t1) then t1='0';
        if missing(t2) then t2='0';
        if missing(t3) then t3='0';
        if missing(t4) then t4='0';
        if missing(t5) then t5='0';
        if missing(t99) then t99='0';
    end;
run;

data labels;

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set results06;
attrib t1 label = "THS 2.2 Menthol$- mCC$(N=&trt1)"
      t2 label = "mCC -$THS 2.2 Menthol$(N=&trt2)"
/*      t3 label = "THS 2.2 Menthol$- NRT gum$(N=&trt3)"*/
/*      t4 label = "NRT gum -$THS 2.2 Menthol$(N=&trt4)"*/
      T3 LABEL = "THS 2.2 Menthol -$NRT gum$(N=&trt3)" /* 2) JMH
12Aug2014 */
      T4 LABEL = "NRT gum$- THS 2.2 Menthol$(N=&trt4)" /* 2) JMH
12Aug2014 */
      t5 label = "Enrolled Not$Randomized$(N=&trt5)"
      t99 label = "Overall$Safety$(N=&trt99)";

      if index(visit,'/') then visit=tranwrd(visit,'/',' ');
      if index(visit,'Day -1') then visit=tranwrd(visit,'Day -
1','Baseline');

      if visit='Screening' then delete;
      if index(visit,'from Baseline') then
visit=tranwrd(visit,'Baseline','baseline');

run;

proc sql noprint;
      create table table.t_15_02_06_13 as
      select paramc, visit, stat, t1, t2, t3, t4, T5, t99 /* 1) JMH
12Aug2014 */
      from labels
      order by paramn, ord, statord;
quit;

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

data paging;
      set labels;
      by paramn ord statord;

      flag=1;

      if (first.ord and ln ge 8) then ln=1; /*Amend to look presentable,
and avoid page overflows*/
      else ln+1;
      if ln=1 then page+1;
      call symput("page",compress(put(page,best.)));
run;

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;

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%macro outrtf(blankn=, halfblnk=);

%if &halfblnk=N %then %let halfblnk=;
%else %if &halfblnk=Y %then %let halfblnk=\~;

ods path stdlib.tl06326 (read) ;
ods results off;
ods rtf toc_data/* contents*/
file="/cvn/projects/prj/data/000000106326/TFL/&TFL_Part./&tflno..rtf"
style=tl06326 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;

        _firtitl="Table 15.2.6.13 Summary of Supine Vital Signs -
Safety Population";
        _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;

* 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;
ods listing close;
proc report data = comp missing headline headskip nowd split = '$' %if
&i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;;
    column flag page paramn paramc ord visit statord stat ("Sequence
&linebot" t1 t2 t3 t4 T5) t99; ;
        /* 1) JMH 12Aug2014 */

define flag          / order order=internal noprint;
define page          / order order = internal noprint;
define paramn        / order order = internal noprint;
define ord           / order order = internal noprint;

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        define statord      / order order = internal noprint;
        define paramc      / group style={just=left cellwidth=2.4cm}
style(header)={just=center} 'Parameter$(units)';
        define visit      / group style={just=left
cellwidth=/*2.3*/2cm} style(header)={just=center} 'Study Day'; /* 1) JMH
12Aug2014 */
        define stat      / display style={just=left
cellwidth=1.2cm} style(header)={just=center} 'Statistic';
        define t1      / display style={just=c cellwidth=1.6cm}
style(header)={just=center};
        define t2      / display style={just=c cellwidth=1.6cm}
style(header)={just=center};
        define t3      / display style={just=c cellwidth=1.6cm}
style(header)={just=center};
        define t4      / display style={just=c cellwidth=1.6cm}
style(header)={just=center};
        DEFINE T5      / DISPLAY STYLE={JUST=C CELLWIDTH=1.8CM}
STYLE(HEADER)={JUST=CENTER}; /* 1) JMH 12Aug2014 */
        define t99      / display style={just=c cellwidth=1.5cm}
style(header)={just=center};

        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: mCC = menthol Conventional cigarettes; NRT gum =
Nicotine Replacement Therapy gum; THS = Tobacco Heating System.';
        line 'Note: Enrolled Not Randomized refers to all subjects enrolled
but not randomized. Overall Safety refers to all subjects exposed to THS
2.2 Menthol or NRT gum.';
        line 'Note: Percentages are based on the number of subjects
indicated in the column header (N).';
        line "Note: Baseline is the last available time point prior
to the product test (THS 2.2 Menthol or NRT gum) at Admission (Day -1).";
/* 3) JR 24Sep2014 */

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/*'Note: Baseline will be the last available time point prior to the
product test (THS 2.2 Menthol or NRT gum) at Admission (Day -1) '*/;
    line ' ';
    line 'Appendix 15.3.6.7';
    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_13.lst" new;
run;

proc contents data = table.t_15_02_06_13 varnum;
run;
ods listing close;

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

```