

```

%_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_cigbrand.sas;
%put NOTE: Purpose              : table of current cigarette brands at
admission;
%put NOTE: ;
%put NOTE: Input Data           : ADAM.ADSL ADAM.ADFA;
%put NOTE: Output               : t_15_2_1_5(ccb);
%put NOTE: Macros Called        : _MPRINTTO;
%put NOTE: ;
%put NOTE: Programmed by        : cvn_jriley;
%put NOTE: Creation Date        : 2014-08-06;
%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: 23Sep2014   JMH       1) Amended to use BRAND rather than
FAOBJ;
%put NOTE: ;
%put NOTE:
=====;
options notes source source2 nofullstimer validvarname=upcase missing='
';
ods _all_ close;
ods listing;

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

%let tflno=T_15_02_01_05(ccb);

%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 ;
*****;

/* Current Cigarette Brand data */
proc sort data=adam.adfa(where = (saffl = 'Y' and enrfl = 'Y' and
parcat2='MENTHOL CIGARETTE BRAND' and avisit='Day -1' and paramcd in
('NYIELD' 'TYIELD')) out=/*adfa*/ADFA_X; /* 1) JMH 23Sep2014 */
    by subjidn;
run;

/* 1) start JMH 23Sep2014 */
DATA ADFA;
    SET ADFA_X(DROP=FAOBJ);
    FAOBJ=BRAND;
RUN;
/* 1) end JMH 23Sep2014 */

data adfa2;
    set adfa;
    keep usubjid subjid subjidn faobj paramcd avalc siteid;
run;

proc sort data=adfa2;
    by siteid subjidn faobj;
run;

proc transpose data=adfa2 out=adfa3(drop=_name_ _label_);
    by siteid subjidn faobj;
    var avalc;
    id paramcd;
    idlabel paramcd;
run;

proc sort data=adfa3;
    by siteid faobj;
run;

proc freq data=adfa3;
    table siteid*nyield*tyield/ noprint out=brand(drop=percent count
siteid);
    by faobj;
run;

/* Obtaining treatments */
proc sort data=adam.adsl(where = (saffl = 'Y' and enrfl = 'Y'))
out=adsl;
    by subjidn;
run;

data adsl2a;
    set adsl;
    if index(trtseqa,'Exposed') then delete;
output;
    trtseqa='Overall Safety';

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        trtseqan=99;
    output;
    keep subjidn trtseqa trtseqan siteid ;
run;

data dummytrts;
    attrib trtseqa length=$200.
           trtseqan length=8.;

    trtseqa="THS 2.2 Menthol - mCC";
    trtseqan=1;
    output;
    trtseqa="mCC - THS 2.2 Menthol";
    trtseqan=2;
    output;
    trtseqa="THS 2.2 Menthol - NRT gum";
    trtseqan=3;
    output;
    trtseqa="NRT gum - THS 2.2 Menthol";
    trtseqan=4;
    output;
    trtseqa="Enrolled not randomized";
    trtseqan=5;
    output;
    trtseqa="Overall Safety";
    trtseqan=99;
    output;

run;

proc freq data=adsl2a;
    table trtseqa*trtseqan/ noprint out=trt(drop=percent);
run;

proc sort data=trt;
    by trtseqan;
run;

data trt2a trt2b;
    merge dummytrts(in=b) trt(in=a);
    by trtseqan;
    if a and b then output trt2a;
    if not a and b then output trt2b;
run;

data trt2;
    set trt2a trt2b;

    if count=. then count=0;
    call symput('trt' || compress(put(trtseqan,best.)),
compress(count));

run;

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data _null_;
    set trt2;

    call symput('trt' || compress(put(trtseqan,best.)),
compress(count));
run;

proc transpose data=trt2 out=trt3(drop=_name_ _label_);
    var count;
    id trtseqan;
    idlabel trtseqa;
run;

data trt4;
    set trt3;
    attrib siteid length=$3.;

    siteid=compress('AGE');

    rename _1=total_1
           _2=total_2
           _3=total_3
           _4=total_4
           _5=total_97
           _99=total_overall;
run;

proc sort data=adfa out=adfa4(keep=usubjid subjid subjidn faobj trtseqa
trtseqan siteid) nodupkey;
    by subjidn;
run;

data adfa4a;
    set adfa4;
    output;
    trtseqa='Overall Safety';
    trtseqan=99;
    output;
run;

proc sort data=adfa4a;
    by faobj;
run;

proc freq data=adfa4a;
    table siteid*trtseqa*trtseqan/ noprint out=seq(drop=percent);
    by faobj;
run;

data seq2;
    set seq;

    trtseqan2=compress('_',||put(trtseqan,best.));
    drop trtseqan;

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run;

proc transpose data=seq2 out=seq3(drop=_name_ _label_);
  by siteid faobj;
  var count;
  id trtseqan2;
  idlabel trtseqa;
run;

proc sort data=seq3;
  by faobj;
run;

proc sort data=brand;
  by faobj;
run;

data seq4;
  merge seq3 brand;
  by faobj;

  if missing(_1) then do;
    _1=0;
  end;
  if missing(_2) then do;
    _2=0;
  end;
  if missing(_3) then do;
    _3=0;
  end;
  if missing(_4) then do;
    _4=0;
  end;
  if missing(_5) then do;
    _5=0;
  end;

  overall=_1 + _2 + _3 + _4 + _5;
run;

data seq5;
  merge seq4 trt4;
  by siteid;
  attrib p1 p2 p3 p4 p5 p99 length=$8.;

  n1=left(compress((put(_1,8.))));
  n2=left(compress((put(_2,8.))));
  n3=left(compress((put(_3,8.))));
  n4=left(compress((put(_4,8.))));
  n5=left(compress((put(_5,8.))));
  n99=left(compress((put(_99,8.))));

  if missing(n1) then n1='0';
  if missing(n2) then n2='0';

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if missing(n3) then n3='0';
if missing(n4) then n4='0';
if missing(n5) then n5='0';
if missing(n99) then n99='0';

percent1=_1/total_1*100;
percent2=_2/total_2*100;
percent3=_3/total_3*100;
percent4=_4/total_4*100;
if total_97 ne 0 then do;
    percent5=_5/total_97*100;
end;
percent99=_99/total_overall*100;

if percent1=100 then p1='(100 %)';
else if percent1=0 or missing(percent1) then p1='';
else if percent1 ge 10 then p1='( ' ||
left(compress(put(percent1,8.1))) || '%)';
else if percent1 lt 10 then p1='( ' ||
left(compress(put(percent1,8.1))) || '%)';

if percent2=100 then p2='(100 %)';
else if percent2=0 or missing(percent2) then p2='';
else if percent2 ge 10 then p2='( ' ||
left(compress(put(percent2,8.1))) || '%)';
else if percent2 lt 10 then p2='( ' ||
left(compress(put(percent2,8.1))) || '%)';

if percent3=100 then p3='(100 %)';
else if percent3=0 or missing(percent3) then p3='';
else if percent3 ge 10 then p3='( ' ||
left(compress(put(percent3,8.1))) || '%)';
else if percent3 lt 10 then p3='( ' ||
left(compress(put(percent3,8.1))) || '%)';

if percent4=100 then p4='(100 %)';
else if percent4=0 or missing(percent4) then p4='';
else if percent4 ge 10 then p4='( ' ||
left(compress(put(percent4,8.1))) || '%)';
else if percent4 lt 10 then p4='( ' ||
left(compress(put(percent4,8.1))) || '%)';

if percent5=100 then p5='(100 %)';
else if percent5=0 or missing(percent5) then p5='';
else if percent5 ge 10 then p5='( ' ||
left(compress(put(percent5,8.1))) || '%)';
else if percent5 lt 10 then p5='( ' ||
left(compress(put(percent5,8.1))) || '%)';

if percent99=100 then p99='(100 %)';
else if percent99=0 or missing(percent99) then p99='';
else if percent99 ge 10 then p99='( ' ||
left(compress(put(percent99,8.1))) || '%)';

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        else if percent99 lt 10 then p99='( ' ||
left(compress(put(percent99,8.1))) || '%)';
run;

data dummy;
    attrib siteid length=$200.;

    siteid=compress('AGE');
    dummy1=.;
run;

proc sort data=seq5;
    by siteid;
run;

data seq6;
    merge dummy seq5;
    by siteid;
    faobj1=upcase(substr(faobj,1,1))||lowercase(substr(faobj,2));
    drop faobj;
    rename faobj1=faobj;
run;

proc sort data=seq6;
    by siteid descending overall faobj;
run;

proc sql noprint;

create table table.t_15_02_01_05 as
select faobj, nyield, tyield, n1, n2, n3, n4, n5, n99, p1, p2, p3, p4,
p5, P99
from seq6
order by siteid, overall desc, faobj;

quit;

data paging;
    set seq6;
    by siteid descending overall faobj;

    flag=1;

    if ln gt /*8*/10 then ln=1; /* 1) JMH 23Sep2014 */
    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) ;

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%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.tl06326 (read) ;
ods results off;
ods rtf toc_data
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;
    by siteid descending overall faobj ;
    where page=&i;

    /* Amend title as needed */
    _firtitl="Table 15.2.1.5 Summary of Current Cigarette Brands at
Admission - Safety Population";
    _upcas=(length(_firtitl)-
length(compress(_firtitl,'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 headline headskip missing nowd split = '#' %if
&i=1 %then %do; contents=' ' %end; %else %do; contents=' ' %end;;;
    column flag page faobj ("ISO Nicotine#Yield" nyield) ("ISO
Tar#Yield" tyield)

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        ("Sequence &linebot." ("THS 2.2 Menthol -#mCC#(N=&trt1)" n1 p1)
("mCC -#THS 2.2 Menthol#(N=&trt2)" n2 p2) ("THS 2.2 Menthol -#NRT
gum#(N=&trt3)" n3 p3)
        ("NRT gum -#THS 2.2 Menthol#(N=&trt4)" n4 p4) ("Enrolled
Not#Randomized#(N=&trt5)" n5 p5)) ("Overall#Safety#(N=&trt99)" n99 p99);
        define flag          / order order=internal noprint;
        define page          / order order = internal noprint;
        define faobj          / display style={just=left cellwidth=/*3*/3.4cm}
"Brand"; /* 1) JMH 23Sep2014 */
        define nyield         / display style={just=CENTER cellwidth=1.5cm}
"(mg) ";
        define tyield         / display style={just=CENTER cellwidth=1.5cm}
"(mg) ";
        define n1             / display style={just=d cellwidth=0.5cm}
style(header)={just=center} "";
        define p1             / display style={just=center cellwidth=1.2cm}
style(header)={just=center} "";
        define n2             / display style={just=d cellwidth=0.5cm}
style(header)={just=center} "";
        define p2             / display style={just=center cellwidth=1.2cm}
style(header)={just=center} "";
        define n3             / display style={just=d cellwidth=0.5cm}
style(header)={just=center} "";
        define p3             / display style={just=center cellwidth=1.2cm}
style(header)={just=center} "n";
        define n4             / display style={just=d cellwidth=0.5cm}
style(header)={just=center} "(%)";
        define p4             / display style={just=center cellwidth=1.2cm}
style(header)={just=center} "";
        define n5             / display style={just=d cellwidth=0.6cm}
style(header)={just=center} "";
        define p5             / display style={just=center cellwidth=1.2cm}
style(header)={just=center} "";
        define n99            / display style={just=d cellwidth=0.5cm}
style(header)={just=center} "";
        define p99            / display style={just=center cellwidth=1.2cm}
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 before page / style={just=left cellwidth=5cm
protectspecialchars=off};
        line "&linetop";
        endcomp;

        compute after page / style={just=left cellwidth=5cm
protectspecialchars=off};
        line "&linebot" ;
        endcomp;

        compute before _page_ / style={just=left protectspecialchars=off};

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        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};
        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 enrolled 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 "";
        line "Appendix 15.3.1.2";
        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_01_05.lst" new;
run;

proc contents data = table.t_15_02_01_05 varnum;
run;
ods listing close;

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

```