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%_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_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_jhardman;
%put NOTE: Creation Date        : 2014-07-28;
%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: 15Sep2014   KB        1) Amended to use BRAND instead of
FAOBJ;
%put NOTE: 15Sep2014   KB        2) Amended issue with incorrect
numbers;
%put NOTE: 15Sep2014   KB        3) Added COYIELD data;
%put NOTE: 01Oct2014   JMH       4) Amended column header as per client
comments;
%put NOTE: 03Oct2014   JR        5) Amended sorting;
%put NOTE: 20Oct2014   KB        6) Added COYIELD to compare dataset;
%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(/));

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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 ;
*****;

/* Current Cigarette Brand data */
proc sort data=adam.adfa(where = (saffl = 'Y' and enrfl = 'Y' and
parcat2='CIGARETTE BRAND' and avisit='Day -2' and paramcd in ('NYIELD'
'TYIELD' 'COYIELD')) out=adfa; /* 3) KB 15Sep2014 */
    by subjidn;
run;

data adfa2;
    set adfa;
    keep usubjid subjid subjidn /*faobj*/BRAND paramcd avalc siteid; /*
1) KB 15Sep2014 */
run;

proc sort data=adfa2;
    by siteid subjidn /*faobj*/BRAND; /* 1) KB 15Sep2014 */
run;

proc transpose data=adfa2 out=adfa3(drop=_name_ _label_);
    by siteid subjidn /*faobj*/BRAND; /* 1) KB 15Sep2014 */
    var avalc;
    id paramcd;
    idlabel paramcd;
run;

proc sort data=adfa3;
    by siteid /*faobj*/BRAND; /* 1) KB 15Sep2014 */
run;

proc freq data=adfa3;
    table siteid*nyield*tyield/ noprint out=brand(drop=percent count
siteid);
    by /*faobj*/BRAND; /* 1) KB 15Sep2014 */
run;

/* Obtaining treatments */
data adsl;
    set adam.adsl(where=(saffl='Y'));
    output;
    trt01an=99;
    trt01a='Overall Safety';
    output;
run;

proc sort data=adsl nodupkey out=adsl1;

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        by trt01an trt01a subjid;
run;

proc freq data=adsl1(where=(not missing(trt01an))) noprint;
    table trt01an*trt01a*siteid/ out =tot(drop=percent
rename=(count=total));
run;

data tot2;
    set tot;
    call symput('trt' || compress(put(trt01an,best.)),
compress(total));
    rename total=COUNT;
run;

proc transpose data=tot2 out=tot3 prefix=total;
    by siteid;
    var count;
    id trt01an;
    idlabel trt01a;
run;

proc sort data=adfa out=adfa4(keep=usubjid subjid subjidn /*faobj*/BRAND
trta trtan siteid PARAMCD AVALC) nodupkey; /* 1) KB 15Sep2014 */ /* 2)
KB 15Sep2014 */
    by subjidn PARAMCD; /* 2) KB 15Sep2014 */
run;

data adfa4a;
    set adfa4;
    output;
    trta='Overall Safety';
    trtan=99;
    output;
run;

/* 2) START KB 15Sep2014 */
PROC SORT DATA=ADFA4A;
    BY SITEID SUBJIDN BRAND TRTAN TRTA PARAMCD ;
RUN;

PROC TRANSPOSE DATA=ADFA4A OUT=ADFA4B(DROP=_NAME_ _LABEL_);
    BY SITEID SUBJIDN BRAND TRTAN TRTA;
    VAR AVALC;
    ID PARAMCD;
    IDLABEL PARAMCD;
RUN;
/* 2) END KB 15Sep2014 */

proc sort data=/*adfa4a*/ADFA4B; /* 2) KB 15Sep2014 */
    by /*faobj*/BRAND; /* 1) KB 15Sep2014 */
run;

proc freq data=/*adfa4a*/ADFA4B; /* 2) KB 15Sep2014 */

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    table siteid*trta*trtan*COYIELD*TYIELD*NYIELD/ noprint
out=seq(drop=percent); /* 2) KB 15Sep2014 */
    by /*faobj*/BRAND; /* 1) KB 15Sep2014 */
run;

data seq2;
    set seq;

    trtan2=compress('_',||put(trtan,best.));
    drop trtan;
run;

/* 2) START KB 15Sep2014 */
PROC SORT DATA=SEQ2;
    BY SITEID BRAND COYIELD TYIELD NYIELD;
RUN;
/* 2) END KB 15Sep2014 */

proc transpose data=seq2 out=seq3(drop=_name_ _label_);
    by siteid /*faobj*/BRAND COYIELD TYIELD NYIELD; /* 1) KB 15Sep2014 */
/* 2) KB 15Sep2014 */
    var count;
    id trtan2;
    idlabel trta;
run;

proc sort data=seq3;
    by /*faobj*/BRAND; /* 1) KB 15Sep2014 */
run;

proc sort data=brand;
    by /*faobj*/BRAND; /* 1) KB 15Sep2014 */
run;

data seq4;
    /*merge*/SET seq3 /*brand*/; /* 2) KB 15Sep2014 */
    by /*faobj*/BRAND; /* 1) KB 15Sep2014 */

run;

data seq5;
    merge seq4 tot3;
    by siteid;

    attrib p1 p2 p3 p97 p99 length=$8.;

    array a[5] total1 total2 total3 total97 total99;
    array b[5] _1 _2 _3 _97 _99;
    array c[5] p1 p2 p3 p97 p99;
    array d[5] n1 n2 n3 n97 n99;
    array e[5] percent1 percent2 percent3 percent97 percent99;
    do i=1 to 5;
        d[i]=left(compress((put(b[i],8.))));
        if missing(d[i]) then d[i]='0';
    end;

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        e[i]=b[i]/a[i]*100;
        if e[i]=100 then p1='(100  %)';
        else if e[i]=0 or missing(e[i]) then c[i]='';
        else if e[i] ge 10 then c[i]='( ' || left(compress(put(e[i],8.1)))
|| '%' );
        else if e[i] lt 10 then c[i]='( ' || left(compress(put(e[i],8.1)))
|| '%' );

        end;

run;

data dummy;
    attrib siteid length=$200.;

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

proc sort data=seq5;
    by siteid;
run;

data seq6;
    merge dummy seq5;
    by siteid;
    /*faobj1*/BRAND1=upcase(substr(/*faobj*/BRAND,1,1))||lowercase(substr
(/*faobj*/BRAND,2)); /* 1) KB 15Sep2014 */

    NYIELDN= INPUT(NYIELD,BEST.); /* 5) JR 03Oct2014 */
    drop /*faobj*/BRAND;
    rename /*faobj1=faobj*/BRAND1=BRAND; /* 1) KB 15Sep2014 */
run;

proc sort data=seq6;
    by descending _99 /*faobj*/BRAND DESCENDING NYIELDN; /* 1) KB 15Sep2014
*/ /* 5) JR 03Oct2014 */
run;

data final;
    set seq6;
    by descending _99 /*faobj*/BRAND DESCENDING NYIELDN; /* 1) KB 15Sep2014
*/ /* 5) JR 03Oct2014 */
    sortord+1;
run;

proc sql noprint;

create table table.t_15_02_01_05 as
select /*faobj*/BRAND, nyield, tyield, COYIELD, n1, n2, n3, n97, n99, p1,
p2, p3, p97, p99 /* 1) KB 15Sep2014 */ /* 6) KB 20Oct2014 */
from final
order by sortord, /*faobj*/BRAND, NYIELDN; /* 1) KB 15Sep2014 */ /* 5)
JR 03Oct2014 */

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quit;

data paging;
  set final;
    by sortord /*faobj*/BRAND; /* 1) KB 15Sep2014 */

    flag=1;

    if ln gt 14 then ln=1;
    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;

%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/* 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;
  by sortord /*faobj*/BRAND ; /* 1) KB 15Sep2014 */
  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;

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        call symput('_FSRTITL', trim(left(_firtitl)));
        call symput('_blankn', compress(put(len,best.)));
    end;
    drop _firtitl _upcas len;
run;

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* 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 sortord /*faobj*/BRAND ("ISO Nicotine#Yield"
nyield) ("ISO Tar#Yield" tyield) ("ISO CO#Yield" COYIELD) /* 1) KB
15Sep2014 */ /* 3) KB 15Sep2014 */
    ("THS 2.2#(N=&trt1)" n1 p1)
        ("CC#(N=&trt2)" n2 p2)
        ("SA#(N=&trt3)" n3 p3)
        ("Enrolled Not#Randomized#(N=&trt97)" n97 p97)
        ("Overall#Safety#(N=&trt99)" n99 p99);
    define flag          / order order=internal noprint;
    define page          / order order = internal noprint;
    define sortord       / order order = internal noprint;
    define /*faobj*/BRAND / display style={just=left
cellwidth=3cm} "Brand"; /* 1) KB 15Sep2014 */
    define nyield        / display style={just=center cellwidth=1.5cm}
"(mg)";
    define tyield        / display style={just=center cellwidth=1.5cm}
"(mg)";
    DEFINE COYIELD       / DISPLAY STYLE={JUST=CENTER CELLWIDTH=1.5CM}
"(mg)"; /* 3) KB 15Sep2014 */
    define n1            / display style={just=d cellwidth=0.5cm}
style(header)={just=R/*center*/} /"****/"n"; /* 4) JMH 01Oct2014 */
    define p1            / display style={just=center cellwidth=1.2cm}
style(header)={just=center} /"****/"(%)"; /* 4) JMH 01Oct2014 */
    define n2            / display style={just=d cellwidth=0.5cm}
style(header)={just=R/*center*/} /"****/"n"; /* 4) JMH 01Oct2014 */
    define p2            / display style={just=center cellwidth=1.2cm}
style(header)={just=center} /"****/"(%)"; /* 4) JMH 01Oct2014 */
    define n3            / display style={just=d cellwidth=0.5cm}
style(header)={just=R/*center*/} "n";
    define p3            / display style={just=center cellwidth=1.2cm}
style(header)={just=center} "(%)";
    define n97           / display style={just=d cellwidth=0.5cm}
style(header)={just=R/*center*/} /"****/"n"; /* 4) JMH 01Oct2014 */
    define p97           / display style={just=center cellwidth=1.2cm}
style(header)={just=center} /"****/"(%)"; /* 4) JMH 01Oct2014 */
    define n99           / display style={just=d cellwidth=0.5cm}
style(header)={just=R/*center*/} /"****/"n"; /* 4) JMH 01Oct2014 */

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        define p99          / display style={just=center cellwidth=1.2cm}
style(header)={just=center} /*""*/"(%)";    /* 4) JMH 01Oct2014 */

        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};
        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: 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: 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 ;
```

```
*=====;
```