

```

/*=====
=====*

| Covance Study Number                : 000000106343
|
| Program Name                        : t_cigbrand.sas
|
| Purpose                                : Create table of
summary of  current cigarette brand at screening - safety population      |
|
| Input Data                            : ADAM.ADFA
ADAM.ADSL                                |
|
| Output Data                          : T_15_02_01_05
|      |
| Macros Called                        :%m_printto , %m_logchk
|
| Originally Performed by              : Upender
|
| Date                                : 20Apr2015
|
|=====
=====|

| Modification History : Original Version          |
|-----|
| Modified by      :
|
| Modification Date :
|
| Modification Reason :
|
+=====
=====*/

proc datasets lib=work nolist memtype=data kill; quit;

options notes source source2 nofullstimer validvarname=upcase missing=' ';

```

```
ods _all_ close;
```

```
ods listing;
```

```
%m_printto(route=YES);
```

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

```
* START OF PROGRAM CODE ;
```

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

```
%let tflno=T_15_02_01_05;
```

```
%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", ""));
```

```
        call symput('TFLprg',reverse(scan(strip(reverse(compress("&_SASPROGRAMFILE", ""))),1,"/")));
```

```
run;
```

```
*****,
```

```
* read in data ;
```

```
*****,
```

```
/*Bring in ADSL for column headers*/
```

```
proc sort data=adam.adsl(where = (safafi = 'Y' or safbfi='Y') ) out=adsl;  
    by usubjid;  
run;
```

```
data adsl2a;  
    set adsl;  
    if index(trt01a,'Exposed') or missing(trt01a)then delete;  
output;  
    trt01a='Overall Safety';  
    trt01an=99;  
output;  
keep usubjid trt01a trt01an ;  
run;
```

```
proc sql;  
  
select count(distinct usubjid) into: trt4 from adsl2a (where=(trt01an = 4 ));  
select count(distinct usubjid) into: trt5 from adsl2a (where=(trt01an = 5 ));  
select count(distinct usubjid) into: trt3 from adsl2a (where=(trt01an = 3 ));  
select count(distinct usubjid) into: trt96 from adsl2a (where=(trt01an = 96 ));  
select count(distinct usubjid) into: trt99 from adsl2a (where=(trt01an = 99 ));  
  
quit;
```

```
%put tt4= &trt4. , tt5=&trt5. , tt3=&trt3. , tt96=&trt96. ;
```

```
/* Current Cigarette Brand data */
```

```
proc sort data=adam.adfa (where = ((safaf1 = 'Y' or safbfl='Y') and EPOCH='SCREENING' and paramcd in ('TYIELD') )) out=adfa;
```

```
by trtan trta subjidn brand;
```

```
run;
```

```
data adfa_bigN;
```

```
set adfa;
```

```
output;
```

```
trtan=99;
```

```
trta='Overall Safety';
```

```
output;
```

```
run;
```

```
proc sql;
```

```
select count(distinct usubjid) into: str4 from adfa_bigN (where=(trtan = 4 ));
```

```
select count(distinct usubjid) into: str5 from adfa_bigN (where=(trtan = 5 ));
```

```
select count(distinct usubjid) into: str3 from adfa_bigN (where=(trtan = 3 ));
```

```
select count(distinct usubjid) into: str96 from adfa_bigN (where=(trtan = 96 ));
```

```
select count(distinct usubjid) into: str99 from adfa_bigN (where=(trtan = 99 ));
```

```
quit;
```

```
%put stt4= &str4. , stt5=&str5. , stt3=&str3. , stt96=&str96. , stt99=&str99. ;
```

```
proc freq data=adfa_bigN noprint;
```

```
tables trtan /out=smlN (drop=percent);
```

```
run;
```

```
proc transpose data=smlN out=smallfreq (drop=_label_) prefix=trt;
```

```
var count;
```

```
id trtan;
```

```
run;
```

```
data smlfreq1 (Drop=trt3 trt4 trt5 trt96 trt99 _name_ rename=(mtrt3=trt3 mtrt4=trt4 mtrt5=trt5  
mtrt96=trt96 mtrt99=trt99)) ;
```

```
set smallfreq;
```

```
if trt3 ne . then mtrt3=&trt3. - trt3;
```

```
if trt4 ne . then mtrt4=&trt4. - trt4;
```

```
if trt5 ne . then mtrt5=&trt5. - trt5;
```

```
if trt96 ne . then mtrt96=&trt96. - trt96;
```

```
if trt99 ne . then mtrt99=&trt99. - trt99;
```

```
array m6 (5) mtrt3 mtrt4 mtrt5 mtrt96 mtrt99;
```

```
do i=1 to 5;
```

```
if m6(i)=0 then m6(i)=. ;
```

```
end;
```

```
Brand_New='Missing';
```

```
ord=999.5;
```

```
run;
```

```
data adfa1;
```

```
set adfa;
```

```
keep trta trtan brand subjid;
```

```
run;
```

```
proc sort data=adfa1 out=adfa2 ; by trtan trta subjid brand; run;
```

```
proc freq data=adfa2;
```

```
table brand / noprint out=brand(drop=percent);
```

```
run;
```

```
proc sort data=brand; by brand; run;
```

```
proc sort data=adfa2; by brand; run;
```

```
data adfa3;
```

```
length brand_new $80.;  
merge adfa2 (in=a) brand (in=b);  
by brand;  
if count lt 4 then brand_new='OTHER';  
else brand_new=brand;  
run;
```

```
data adfa4;  
    set adfa3;  
    output;  
    trtan=99;  
    trta='Overall Safety';  
    output;  
run;
```

```
proc freq data=adfa4 (drop=brand where=(brand_new ne ""));  
tables brand_new*trta*trtan /out=brandfreq (drop=percent);  
run;
```

```
proc transpose data=brandfreq out=bfreqs (drop=_) prefix=trt;  
by brand_new;  
id trtan ;  
idlabel trta;  
var count;
```

```
run;
```

```
proc sort data=bfreqs (keep=brand_new trt99) out=order; by descending trt99 brand_new; run;
```

```
data order1;
```

```
set order;
```

```
by descending trt99 brand_new;
```

```
ord+1;
```

```
run;
```

```
proc sort data=bfreqs out=bfreqs1 ; by brand_new; run;
```

```
proc sort data=order1 ; by brand_new; run;
```

```
data final_a;
```

```
merge bfreqs1 (in=a) order1 (in=b drop=trt99);
```

```
by brand_new;
```

```
run;
```

```
data final_b (drop=brand_new rename=(brand_new1=brand_new));
```

```
set final_a;
```

```
if brand_new='OTHER' then ord=999;
```

```
brand_new1=propcase(brand_new);
```

```
run;
```



```
proc sort data=final_b; by ord; run;
```

```
data final;
```

```
set final_b smlfreq1;
```

```
by ord;
```

```
run;
```

```
proc sort data=final (where=(ord ne 999.5)) ; by ord; run;
```

```
data final1;
```

```
set final;
```

```
if ^missing(trt99) then do;
```

```
OS=put(trt99, best.)||' ('||put((trt99/&trt99.)*100, 5.1)||')';
```

```
end;
```

```
if ^missing(trt3) then do;
```

```
SA=put(trt3, best.)||' ('||put((trt3/&trt3.)*100, 5.1)||')';
```

```
end;
```

```
if ^missing(trt4) then do;
```

```
THS=put(trt4, best.)||' ('||put((trt4/&trt4.)*100, 5.1)||')';
```

```
end;
```

```
if ^missing(trt5) then do;  
MCC=put(trt5, best.)||' ('||put((trt5/&trt5.)*100, 5.1)||')';  
end;
```

```
if ^missing(trt96) then do;  
PT=put(trt96, best.)||' ('||put((trt96/&trt96.)*100, 5.1)||')';  
end;  
run;
```

```
data tflds.T_15_02_01_05 (drop= trt3 trt4 trt5 trt96 trt99);  
set final1;  
run;
```

```
data paging;  
set final1;  
by ord;  
flag=1;
```

```
if ln gt 15 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 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.t106343 (read) ;
```

```
ods rtf toc_data/* contents*/
```

```
file="/cvn/projects/prj/data/000000106343/TFL/&TFL_Part./Tables/&tflno..rtf" style=t106343
```

```
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 15.2.1.5 Summary of Current Cigarette Brands at Screening - 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.)));

        call symput('N3', strip(put(&trt3., best.)));

        call symput('N4', strip(put(&trt4., best.)));

        call symput('N5', strip(put(&trt5., best.)));

        call symput('N96', strip(put(&trt96., best.)));

        call symput('N99', strip(put(&trt99., 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 brand_new THS MCC SA PT OS ;

define flag      / order order=internal noprint;

        define page      / order order = internal noprint;

define brand_new      / display style={just=left cellwidth=3cm} "Brand";


        define THS      / "THSm2.2#(N=&N4.)#n (%)" display style={just=center cellwidth=1.2cm}
style(header)={just=center} ;

        define MCC      / "mCC#(N=&N5.)#n (%)" display style={just=center cellwidth=1.2cm}
style(header)={just=center};

        define SA      / "SA#(N=&N3.)#n (%)" display style={just=center cellwidth=1.2cm}
style(header)={just=center} ;

        define PT      / "Product Test#(N=&N96.)#n (%)" display style={just=center cellwidth=1.2cm}
style(header)={just=center};

        define OS      / "Overall Safety#(N=&N99.)#n (%)" 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};

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: 'Product Test' refers to all subjects who tested the THS product but were not randomized.";

line 'Note: The Overall Safety refers to all subjects in the Safety Population.';

line 'Note: mCC = Menthol Conventional cigarettes; SA = Smoking abstinence; THSm2.2 = Tobacco Heating System 2.2 Menthol.';

line 'Note: Percentages are based on the number of subjects indicated in the column header (N).';

line 'Note: Only brands used by at least 4 subejcts in the Safety Population are presented.';

line "";

line "Appendix 15.3.1.2";

line "Study ID:ZRHM-REXA-08-US Program: &TFLprg Status: &status" &_blankn.*"\~\~"
"&sysdate" &_blankn.*"\~\~" "(Page &i of &page)";

```
        endcomp;

run;

%end;

ods rtf close;

ods results on;

ods path sashelp.tmplmst (read);


%mend ;


%outtrtf(blankn=30, halfblnk=N);


%m_logchk;


*=====;

* END OF PROGRAM CODE                ;

*=====;
```