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* Project : ZRHM-REXA-07-JP

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* Program name : t15020105_ZRHM-REXA-07_V1.sas


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* Author : W. Yang

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* Date created : 05/20/2015

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* Purpose : Create Table 15.2.1.5 Summary of Current Cigarette Brands At Screening  Safety Population

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* Revision History :

*

* Date Author Ref Revision (Date in YYYYMMDD format)

*

*****,

```
%let prgname=T15020105_ZRHM_REXA_07_JP_V1;
```

```
options nomprint nosymbolgen nomlogic validvarname=upcase;
```

```
options sasautos=("W:\pmp07\macros" sasautos) notes;
```

```
%init(delivery=9);
```

```
%titlecsv(prgname=&prgname.);
```

```
%put &title1;
```

```
%put &title2;
```

```
%put &APPENDIX;
```

```
%put &endpoint;
```

```
%put &outname.;
```

```
data adsl;
```

```
    set adam.adsl(where=(safbfl='Y'));
```

```
    if   trt01an=4 then do; trt=1; output; end;
```

```
    else if trt01an=5 then do; trt=2; output; end;
```

```
    else if trt01an=3 then do; trt=3; output; end;
```

```
    else if trt01an=96 then do; trt=4; output; end;
```

```
    trt=5; output;
```

```
run ;
```

```
proc freq data =adsl noprint;
```

```
    table trt/out=treatabt (rename =(count=total)drop=percent);
```

```
run;
```

```
data _null_;
```

```
    Set treatabt;
```

```
    Call symput('n' || strip(put(trt, best.)),strip(put(total, best.)));
```

```
Run;
```

```
%put &n1 &n2 &n3 &n4 &n5;
```

```
*** Prepare data for analysis ***;
```

```
proc sql;
```

```
    create table data0 as
```

```
select a.trt, b.*  
  
from adsl as a cross join adam.adfa as b  
  
where a.usubjid=b.usubjid and b.paramcd in ('NYIELD' 'TYIELD') and a.visit='Screening'  
  
;  
  
quit;
```

```
proc sort data=data0; by usubjid trt brand paramcd ; run;
```

```
data data1;  
  
set data0;  
  
by usubjid trt brand paramcd ;  
  
retain cat1 cat2;  
  
if paramcd='NYIELD' then cat1=aval;  
  
else if paramcd='TYIELD' then cat2=aval;  
  
if last.brand then output;  
  
run;
```

```
proc means data=data1(where=(trt=5)) noprint nway;  
  
class brand trt;  
  
var trt;  
  
output out=four(drop=_: where=(count<4)) n=count;  
  
run;
```

```
proc sort data=data1; by brand ; run;
```

```

data data2;

    merge data1(in=a) four(in=b keep=brand);

    by brand;

    if b then brand='Other';

run;

```

```

%macro mfreq(in_dsn=, n_max=, order1=, order2=, class=);

proc means data=&in_dsn noprint nway;

    class &class trt;

    var trt;

    output out=stat1 n=count;

run;

```

```

data stat2 (drop=_type_ _freq_ percentx);

    set stat1;

    by &class trt;

    length percentage $25;

    %do i=1 %to &n_max;

        if trt=&i and count>. then percentx=count/%eval(&&n&i)*100;

        if    percentx=100 then percentage=put(count,4.)||' (100)';

        else if percentx>=0.1 then percentage=put(count,4.)||' ('||strip(put(percentx,5.1))||')';

        else if percentx>.  then percentage=put(count,4.)||' (<0.1)';

    %end;

run;

```

```
proc transpose data=stat2 out=stat3 prefix=col;
```

```
by &class;
```

```
id trt;
```

```
var percentage;
```

```
run;
```

```
data final_&order1 (drop=_name_);
```

```
length col1-col&n_max. $100;
```

```
set stat3;
```

```
order2=&order2;
```

```
order1=&order1;
```

```
%do i=1 %to &n_max;
```

```
if col&i=" then col&i='0';
```

```
%end;
```

```
run;
```

```
%mend mfreq;
```

```
%mfreq(in_dsn=data2, n_max=5, order1=1, order2=1, class=brand cat1 cat2);
```

```
*** Prepare the output data set per mock-up/shell ***;
```

```
data final1;
```

```
set final_1;
```

```
brand=propcase(brand);
```

```
if brand='Other' then order1=2;
```

```
order2=input(scan(col5,1,','),best.);
run;

proc sort; by order1 descending order2; run;
```

```
data final1;

set final1;

pageno=1;

if _n_>16 then pageno=2;
run;
```

```
data odata.%sysfunc(scan(&prgname,1,'_'));

set final1(in=a);

if a then group="Part1";
run;
```

```
%trtrtfg(pgmname=&outname., pgmid=1, new=0, style=, bookmark=%lowcase(&outname.));
```

```
%global totalpage;
```

```
data _null_;

set final1 end=eof;

if eof then do;

call symput('totalpage', trim(left(put(pageno,8)))));

end;
```

```
run;
```

```
%put totalpage=&totalpage;
```

```
%macro reppart;
```

```
%do i = 1 %to &totalpage;
```

```
proc report data=final1(where=(pageno=&i.)) headskip headline spacing=4 nowd split='|'  
style=[outputwidth=100%] style(header column)=[protectspecialchars=off];
```

```
column pageno order1 order2 brand cat1 cat2 col1-col5;
```

```
define pageno /order order noprint;
```

```
define order1 /order order noprint;
```

```
define order2 /order descending order noprint;
```

```
define brand /display "Brand" style(column)=[cellwidth=25% asis=on] style(header)=[just=l];
```

```
define cat1 /display "ISO nicotine | yield | (mg)" flow style(column)=[cellwidth=10% just=c];
```

```
define cat2 /display "ISO tar | yield | (mg)" flow style(column)=[cellwidth=10% just=c];
```

```
define col1 /display "THSm2.2 | (N=&n1) | n(%)" flow style(column)=[cellwidth=10% just=c];
```

```
define col2 /display "mCC | (N=&n2) | n(%)" flow style(column)=[cellwidth=10% just=c];
```

```
define col3 /display "SA | (N=&n3) | n(%)" flow style(column)=[cellwidth=10% just=c];
```

```
define col4 /display "Product | Test | (N=&n4) | n(%)" flow style(column)=[cellwidth=10% just=c];
```

```
define col5 /display "Overall | Safety | (N=&n5) | n(%)" flow style(column)=[cellwidth=10% just=c];
```

```
compute before pageno ;
```

```
line "";
```

```
endcomp;
```

```

compute before _page_/style=[fontweight=bold fontsize=3.75];

    line @1 "&title1 &title2";

    line @1 "^R/RTF\brdrb\brdrs\brdrw30\brsp20\b ' ";

endcomp;

compute after _page_/style=[fontsize=1.75];

    line @1 "Note: ♦Product Test♦ refers to all subjects who tested the THS product but were not
randomized.";

    line @1 "Note: The Overall Safety refers to all subjects in the Safety Population.";

    line @1 "Note: mCC = Menthol conventional cigarettes; SA = Smoking abstinence; THSm2.2 =
Tobacco Heating System 2.2 Menthol.";

    line @1 "Note: Percentages are based on the number of subjects indicated in the column header
(N).";

    line @1 "Note: Only brands used by at least 4 subejcts in the Safety Population are presented.";

    line @1 "";

    line @1 "&APPENDIX.";

    line @1 "Study ID:ZRHM-REXA-07-JP      Program: &fprgname..sas      Status:
&repversion./&fdate.      Page: &i of &totalpage.";

endcomp;


compute after pageno ;

    line "";

endcomp;

run;

%end;


%mend;

%reppart;

```



```
ods listing;
```

```
ods rtf close;
```