

*****,

* Project : ZRHM-REXA-07-JP

*

* Program name : t15020107_ZRHM-REXA-07_V1.sas

*

* Author : W. Yang

*

* Date created : 05/21/2015

*

* Purpose : Create Table 15.2.1.6 Summary of Concomitant Diseases - Safety Population

*

* Revision History :

*

* Date Author Ref Revision (Date in YYYYMMDD format)

*

*****,

%let prgname=T15020107_ZRHM_REXA_07_JP_V1;

options nomprint nosymbolgen nomlogic validvarname=upcase;

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

%init(delivery=9);

%titlecsv(prgname=&prgname., version=3);

%put &title1;

%put &title2;

%put &APPENDIX;

```
%put &endpoint;
```

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

```
data adsl1;
```

```
    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;
```

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

```
    if safbfl='Y' then do; trt=5; output; end;
```

```
run ;
```

```
proc freq data =adsl1 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 macro/frequency in order;
```

```

data admh1;

    set adam.admh;

    where mhcat='CONCOMITANT DISEASE' and safbfl='Y' and mhdecod^=";

    if trtan=4 then do; trt=1; output; end;

    else if trtan=5 then do; trt=2; output; end;

    else if trtan=3 then do; trt=3; output; end;

    if trtan=96 then do; trt=4; output; end;

    if safbfl='Y' then do; trt=5; output; end;

run;


proc sort data=admh1 out=top0; by usubjid trt; run;

proc sort data=top0 out=top nodupkey; by usubjid trt; run;


proc sort data=admh1 out=body0; by usubjid mhbodsys trt; run;

proc sort data=body0 out=body nodupkey; by studyid usubjid mhbodsys trt; run;


proc sort data=admh1 out=term0; by usubjid mhbodsys mhdecod trt; run;

proc sort data=term0 out=term nodupkey; by usubjid mhbodsys mhdecod trt; run;


/*****

Categorical Statistics for cm Tables, n (%)

*****/

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

```

```
proc means data=&in_dsn noprint nway;
```

```
  class &class trt;
```

```
  var trt;
```

```
  output out=stat1_a n=count;
```

```
run;
```

```
proc means data=&in_dsn.0 noprint nway;
```

```
  class &class trt;
```

```
  var trt;
```

```
  output out=stat1_b n=count0;
```

```
run;
```

```
data stat2 (drop=_type_ _freq_ percentx);
```

```
  merge stat1_a stat1_b (drop=_type_ _freq_);
```

```
  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)'||put(count0,3.0);
```

```
    else if percentx>=0.1 then percentage=put(count,4.)||'  
( '||strip(put(percentx,5.1))||' )'||put(count0,3.0);
```

```
    else if percentx>. then percentage=put(count,4.)||'(<0.1)'||put(count0,3.0);
```

```
  %end;
```

```
run;
```

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

```
  by &class;
```

```
  id trt;
```

```
  var percentage;
```

```
run;
```

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

```
  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=top, n_max=5, order1=1, order2=1, class=);
```

```
%mfreq(in_dsn=body, n_max=5, order1=2, order2=2, class=mhbodsys);
```

```
%mfreq(in_dsn=term, n_max=5, order1=3, order2=2, class=mhbodsys mhdecod);
```

```
data final1;
```

```
  set final_;
```

```
run;
```

```
data final2;
```

```

length stat $100;

set final1;

if order1=1 and order2=1 then stat='Any Concomitant Diseases';
else if order1=2 and order2=2 then stat=strip(propcase(mhbodsys));
else if order1=3 and order2=2 then stat=' '||strip(propcase(mhdecod));

order3=sum(input(scan(col5,1,','),8.));

run;

proc sort data=final2; by order2 mhbodsys mhdecod descending order3 ; run;

data final;

set final2;

by order2 mhbodsys mhdecod descending order3 ;

retain body_ord term_ord zero1-zero5;

%macro mtemp;

    if first.mhbodsys then do; %do i=1 %to 5; if col&i.='0' then zero&i.=1; else zero&i.=0; %end; end;

    else do; %do i=1 %to 5; if zero&i.=1 then col&i=''; %end; end;

%mend;

%mtemp;

if first.mhdecod then term_ord=order3;

if first.mhbodsys then body_ord=order3;

```

```

    if mhbodsys="" then mhbodsys='AAA';
run;

proc sort data=final; by order2 descending body_ord mhbodsys descending term_ord mhdecod; run;

data final;

    set final;

    pageno=1;

    if _n_>13 then pageno=2;

    if _n_>32 then pageno=3;

run;

%global totalpage;

data _null_;

    set final end=eof;

    if eof then do;

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

    end;

run;

%put totalpage=&totalpage;

%let sline=\brdrb\brdrs\brdrw10\brsp20;

```

```

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

%macro reppart;

%do i = 1 %to &totalpage;

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

    column pageno order2 mhbodsys ("^S={just=left}System Organ Class" stat) ("THSm2.2 |(N=&n1)
&sline." col1)

    ("mCC|(N=&n2) &sline." col2) ("SA|(N=&n3) &sline." col3) ("Product Test|Only|(N=&n4) &sline."
col4)

    ("Overall|Safety|(N=&n5) &sline." col5);

define pageno /order noprint;

define order2 /order noprint;

define mhbodsys /order order=data noprint;

define stat /display "^S={just=left} Preferred Term" style(column)=[cellwidth=36% asis=on]
style(header)=[just=l];

define col1 /display "n(%) Events" flow style(column)=[cellwidth=12% just=c];

define col2 /display "n(%) Events" flow style(column)=[cellwidth=12% just=c];

define col3 /display "n(%) Events" flow style(column)=[cellwidth=12% just=c];

define col4 /display "n(%) Events" flow style(column)=[cellwidth=12% just=c];

define col5 /display "n(%) Events" flow style(column)=[cellwidth=12% just=c];

compute before mhbodsys ;

    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 Only" refers to all subjects tested the THS product but were not
randomized.';;

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 "";

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;

```

```
data odata.%sysfunc(scan(&prgname,1,'_'));  
  
set final(in=a);  
  
if a then group="SAFBFL";  
  
run;
```