

```

*****
* Project      : ZRHM-REXA-07-JP
*
* Program name  : t15020102_ZRHM-REXA-07_V1.sas
*
* Author       : W. Yang
*
* Date created  : 06/01/2015
*
* Purpose      : Create Table 15.2.1.2 Summary of Reasons for Discontinuations ? FAS
*
* Revision History :
*
* Date      Author   Ref   Revision (Date in YYYYMMDD format)
*
*****

%let prgname=T15020102_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 adsl;
```

```
    set adam.adsl(where=(fasfl='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;
```

```
    trt=4; 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;
```

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

```
data data1;
```

```
    set adsl;
```

```

if dsreas^="" then do;

    if 1 then do; order1=1; order2=1; output; end;

    if dsreas='Adverse events' then do; order1=1; order2=3; output; end;

    else if dsreas='Protocol violation' then do; order1=1; order2=4; output; end;

    else if dsreas='Withdrawal by subject' then do; order1=1; order2=5; output; end;

    else if dsreas='Lost to follow-up' then do; order1=1; order2=6; output; end;

    else if dsreas='Other' then do; order1=1; order2=7; output; end;

end;

run;

```

```

data shell;

    length stat $200;

    order1=1; order2=1; stat='Total no. of discontinuations'; output;

    order1=1; order2=2; stat='Reason for discontinuation'; output;

    order1=1; order2=3; stat=' Adverse events'; output;

    order1=1; order2=4; stat=' Protocol violation'; output;

    order1=1; order2=5; stat=' Withdrawal by subject'; output;

    order1=1; order2=6; stat=' Lost to follow-up'; output;

    order1=1; order2=7; stat=' Other'; output;

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_1 (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=data1, n_max=4, order1=order1, order2=order2, class=order1 order2);

proc sort data=shell; by order1 order2; run;

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

data final1;

    length stat $200;

    merge shell final_1;

    by order1 order2;

    if order2^=2 then do;

        if col1=" then col1='0'; if col2=" then col2='0';

        if col3=" then col3='0'; if col4=" then col4='0';

    end;

    pageno=1;

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 headskip headline spacing=4 nowd split='|' style=[outputwidth=100%]  
style(header column)=[protectspecialchars=off];
```

```
column pageno order1 order2 stat col1-col4;
```

```
define pageno /order order=internal noprint;
```

```

define order1 /order order=internal noprint;

define order2 /order order=internal noprint;

define stat /display "Discontinuations" style(column)=[cellwidth=35% asis=on]
style(header)=[just=l];

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 "Overall FAS|(N=&n4)|n(%)" flow style(column)=[cellwidth=10% just=c];

compute before order1 ;

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: 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: 1 of 1";

endcomp;

```

```
compute after pageno ;  
    line "";  
endcomp;  
run;
```

```
%*end;
```

```
%mend;
```

```
%reppart;
```

```
ods listing;
```

```
ods rtf close;
```