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\* Project : ZRHM-REXA-07-JP

\* Program name : T15020623\_ZRHM\_REXA\_07\_JP\_V1.sas

\* Author : C. Liu

\* Date created : 06/11/2015

\* Purpose : Summary of Physical Examination of Body Systems – Safety Population

\* Revision History

\* Date Author Ref Revision

\* 07/02/2015 C. Liu Per Client's comments

\*\*\*\*\*/

%let prgname=T15020623\_ZRHM\_REXA\_07\_JP\_V1;

options nomprint nosymbolgen;

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.;

```
options missing="";
```

```
title;
```

```
footnote;
```

```
proc format;
```

```
invalue ordf
```

```
  'Normal – n(%)' = 1
```

```
    '^R/RTF' 'Normal to Normal – n(%)' = 1.1
```

```
    '^R/RTF' 'Abnormal NCS to Normal – n(%)' = 1.2
```

```
    '^R/RTF' 'Abnormal CS to Normal – n(%)' = 1.3
```

```
  'Abnormal NCS – n(%)' = 2
```

```
    '^R/RTF' 'Normal to Abnormal NCS – n(%)' = 2.1
```

```
    '^R/RTF' 'Abnormal NCS to Abnormal NCS – n(%)' = 2.2
```

```
    '^R/RTF' 'Abnormal CS to Abnormal NCS – n(%)' = 2.3
```

```
  'Abnormal CS – n(%)' = 3
```

```
    '^R/RTF' 'Normal to Abnormal CS – n(%)' = 3.1
```

```
    '^R/RTF' 'Abnormal NCS to Abnormal CS – n(%)' = 3.2
```

```
    '^R/RTF' 'Abnormal CS to Abnormal CS – n(%)' = 3.3
```

```
  ;
```

```
run;
```

```
data adsl;
```

```
  set adam.adsl;
```

```
  if safaf1='Y';
```

```
if trt01an=3 then trt01an=6;

output;

trt01an=9;

output;

run;
```

```
proc sql noprint;

select n(usubjid) into :n1-:n4

from adsl

group by trt01an;

quit;
```

```
proc freq data=adsl noprint;

table trt01an/out=freqn;

run;
```

```
data adpe;

set adam.adpe(where=(safabl='Y' and paramn not in (1 20) and (ablfl='Y' or (avisitn>100 and
anl01fl='Y'))));

if trtan=3 then trtan=6;

if ablfl='Y' then do;

avisitn=1; avisit='Baseline';

end;

if shift1 ne '' then shift1="^R/RTF' " || strip(compress(shift1,',')) || ' - n(%)';

if peclsig ne '' then avalc=strip(avalc) || ' ' || left(peclsig);

avalc=strip(avalc) || ' - n(%)';
```

```
if avisitn>1 then avisit=propcase(scan(avisit,1,'/'));
```

```
output;
```

```
trtan=9;
```

```
output;
```

```
run;
```

```
proc freq data=adpe noprint;
```

```
table paramn*param*avisitn*avisit*trtan*avalc/out=freq1;
```

```
run;
```

```
proc sql;
```

```
create table freq2 as
```

```
select a.*, strip(put(a.count,8.0))||'('||strip(put(100*a.count/b.count,4.1))||')' as result length=20
```

```
from freq1 a, freqn b
```

```
where a.trtan=b.trt01an
```

```
order by paramn, param, avisitn, avisit, avalc;
```

```
quit;
```

```
proc transpose data=freq2 out=freq3;
```

```
by paramn param avisitn avisit avalc;
```

```
id trtan;
```

```
var result;
```

```
run;
```

```
proc freq data=adpe(where=(avisitn>100)) noprint;
```

```

table paramn*param*avisitn*avisit*trtan*shift1/out=freq4;

run;

proc sql;

create table freq5 as

select a.*, strip(put(a.count,8.0))||'('||strip(put(100*a.count/b.count,4.1))||')' as result length=20

from freq4 a, freqn b

where a.trtan=b.trt01an

order by paramn, param, avisitn, avisit, shift1;

quit;

proc transpose data=freq5 out=freq6;

by paramn param avisitn avisit shift1;

id trtan;

var result;

run;

data all;

set freq3(in=a) freq6(rename=(shift1=avalc));

ord=input(avalc,ordf.);

run;

proc sort;

by paramn param avisitn avisit ord avarc;

run;

```

```

%macro shell;

  avisitn=1; avisit='Baseline'; avalc='Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal NCS – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal CS – n(%)'; ord=input(avalc,ordf.); output;

  avisitn=106; avisit='Day 6'; avalc='Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal NCS – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal CS – n(%)'; ord=input(avalc,ordf.); output;

  /*avalc='Normal to Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal NCS to Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal CS to Normal – n(%)'; ord=input(avalc,ordf.); output;*/

  avisitn=130; avisit='Day 30'; avalc='Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal NCS – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal CS – n(%)'; ord=input(avalc,ordf.); output;

  /*avalc='Normal to Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal NCS to Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal CS to Normal – n(%)'; ord=input(avalc,ordf.); output;*/

  avisitn=160; avisit='Day 60'; avalc='Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal NCS – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal CS – n(%)'; ord=input(avalc,ordf.); output;

  /*avalc='Normal to Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal NCS to Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal CS to Normal – n(%)'; ord=input(avalc,ordf.); output;*/

  avisitn=191; avisit='Day 91'; avalc='Normal – n(%)'; ord=input(avalc,ordf.); output;

  avalc='Abnormal NCS – n(%)'; ord=input(avalc,ordf.); output;

```

```
avalc='Abnormal CS – n(%)'; ord=input(avalc,ordf.); output;  
  
/*avalc='Normal to Normal – n(%)'; ord=input(avalc,ordf.); output;  
  
avalc='Abnormal NCS to Normal – n(%)'; ord=input(avalc,ordf.); output;  
  
avalc='Abnormal CS to Normal – n(%)'; ord=input(avalc,ordf.); output;*/  
  
%mend shell;
```

```
data shell;  
  
length param avisit $40 avalc $200;  
  
paramn=2; param='Head, Eyes, Ears, Nose, Throat';  
  
%shell;  
  
paramn=3; param='Thyroid Gland';  
  
%shell;  
  
paramn=4; param='Heart';  
  
%shell;  
  
paramn=5; param='Chest';  
  
%shell;  
  
paramn=6; param='Lungs';  
  
%shell;  
  
paramn=7; param='Gastrointestinal';  
  
%shell;  
  
paramn=8; param='Cardiovascular System';  
  
%shell;  
  
paramn=9; param='Neurologic';  
  
%shell;  
  
paramn=10; param='Skin';
```

```

%shell;

paramn=11; param='Back';

%shell;

paramn=12; param='Musculoskeletal';

%shell;

paramn=13; param='Abdomen';

%shell;

paramn=14; param='Dentition';

%shell;

paramn=15; param='Other';

%shell;

run;


proc sort data=shell;

  by paramn param avisitn avisit ord avalc;

run;


data final;

  merge shell(in=a) all;

  by paramn param avisitn avisit ord avalc;

  array col _4 _5 _6 _9;

  do i=1 to dim(col);

    if col(i)="" then col(i)='0';

  end;

```



```
run;
```

```
/*for QC purpose*/
```

```
data odata.t15020623;
```

```
    set final;
```

```
run;
```

```
data final;
```

```
    set final;
```

```
    by paramn param avisitn avisit ord avalc;
```

```
    retain _page 1;
```

```
    if first.AVISIT then _c+1;
```

```
    if _c=4 then do;
```

```
        _page+1;
```

```
        _c=1;
```

```
    end;
```

```
    drop _c;
```

```
run;
```

```
proc sort data=final;
```

```
    by _page;
```

```
run;
```

```
%global totalpage;
```

```

data _null_;

    set final end=eof;

    if eof then do;

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

    end;

run;

%put totalpage=&totalpage;

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

%macro reppart;

    %do i = 1 %to &totalpage;

proc report data=final headskip headline spacing=4 nowd split='+' style=[outputwidth=100%]

    style(header column)=[protectspecialchars=off];

    columns _page paramn ('^S={just=l}Body System' param) AVISITN ('^S={just=l}Study Day' AVISIT) ord
('^S={just=l}Statistic' avalc)

    ("^S={just=c}THSm2.2+(N=%cmpres(&n1))" _4) ("^S={just=c}mCC+(N=%cmpres(&n2))" _5)

    ("^S={just=c}SA+(N=%cmpres(&n3))" _6) ("^S={just=c}Overall Safety+(N=%cmpres(&n4))" _9)

;

    where _page =&i.;

    define _page/group order=internal noprint;

```

```

define paramN/group order=internal noprint;

define param/group ' ' order=internal style(column)=[cellwidth=12% just=l font_weight=bold
vjust=b];

define AVISITN/group order=internal noprint;

define AVISIT/group ' ' order=internal style(column)=[cellwidth=6% just=l vjust=b];

define ord/group order=internal noprint;

define avalc/group ' ' order=internal style(column)=[cellwidth=14% just=l vjust=b];

define _4/display ' ' style(column)=[just=c cellwidth=6% vjust=b];

define _5/display ' ' style(column)=[just=c cellwidth=6% vjust=b];

define _6/display ' ' style(column)=[just=c cellwidth=6% vjust=b];

define _9/display ' ' style(column)=[just=c cellwidth=6% vjust=b];


compute after AVISITN;

line ' ';

endcomp;

break after _page/page;


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

line @1 "&title1 &title2";

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

line @1 "Safety Time Period: Randomized Period";

endcomp;


compute before _page;

line @1 "";

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; CS=Clinically Significant; NCS=Not Clinically Significant.";
```

```
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;
```

```
run;
```

```
%end;
```

```
%mend;
```

```
%reppart;
```

```
ods listing;
```

```
ods rtf close;
```