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/*****
* Project       : ZRHM-REXA-07-JP
* Program name  : T15020501_ZRHM_REXA_07_JP_V1.sas
* Author       : C. Liu
* Date created  : 06/11/2015
* Purpose      : Summary of Compliance as Measured by Exhaled CO (ppm) During Confinement Period 7 FAS in the SA Ar
m
* Revision History
* Date         Author      Ref      Revision
*****/

%let prgname=T15020501_ZRHM_REXA_07_JP_V1;
options mprint;

options sasautos=("W:\pmp07\macros" sasautos) notes;
%init(delivery=9);

%titlecsv(prgname=&prgname.);

%put &title1;
%put &title2;
%put &APPENDIX;
%put &endpoint;
%put &outname.;

options missing="";

title;
footnote;

proc format;
  value $ordf
    '<=10' = '01'
    '>10' = '02'
;
run;

proc sql noprint;
  select n(usubjid) into :n
  from adam.adsl
  where fasfl='Y' and trt01an=3;
quit;
%put &n;
data adbx;
  set adam.adbx(where=(fasfl='Y' and trtan=3 and paramcd='CO' and 102<=avisitn<=105 and atptn ne .));
  atptn=100*(atptn-int(atptn));
  avisit=propcase(avisit);
run;

proc sort;
  by avisitn avisit atptn;
run;

proc freq data=adbx noprint;
  table avisitn*avisit*atptn/out=freqn outpct;
run;

data freqn;
  set freqn;

  length result $20;

  result=put(count,8.0);
run;

proc transpose data=freqn out=t_freqn;
  by avisitn avisit;
  id atptn;
  var result;
run;

proc freq data=adbx noprint;
  table avisitn*avisit*atptn*avalcat1/out=freq outpct;
run;

data freq1;
  set freq;

  length result $20;

  result=strip(put(count,best.))||' ('||strip(put(pct_row,4.1))||')';
run;

proc transpose data=freq1 out=freq2;
  by avisitn avisit avalcat1;
  id atptn;
  var result;

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run;

data all;
  set t_freqn(in=a) freq2;
  by avisitn avisit;
  length ord $8;
  if a then do;
    ord='00'; avalcat1='n';
  end;
  else do;
    ord=put(avalcat1,$ordf.);
    avalcat1='n (%) '||strip(avalcat1)||' ppm';
  end;
run;

proc sort;
  by avisitn avisit ord avalcat1;
run;

data shell;
  length avisit avalcat1 $40 ord $8;

  avisitn=102; avisit='Day 2'; avalcat1='n'; ord='00'; output;
  avalcat1='n (%) <=10 ppm'; ord='01'; output;
  avalcat1='n (%) >10 ppm'; ord='02'; output;
  avisitn=103; avisit='Day 3'; avalcat1='n'; ord='00'; output;
  avalcat1='n (%) <=10 ppm'; ord='01'; output;
  avalcat1='n (%) >10 ppm'; ord='02'; output;
  avisitn=104; avisit='Day 4'; avalcat1='n'; ord='00'; output;
  avalcat1='n (%) <=10 ppm'; ord='01'; output;
  avalcat1='n (%) >10 ppm'; ord='02'; output;
  avisitn=105; avisit='Day 5'; avalcat1='n'; ord='00'; output;
  avalcat1='n (%) <=10 ppm'; ord='01'; output;
  avalcat1='n (%) >10 ppm'; ord='02'; output;
run;

proc sort;
  by avisitn avisit ord avalcat1;
run;

data final;
  merge all shell;
  by avisitn avisit ord avalcat1;
  array col _15 _25 _35 _45;

  do i=1 to dim(col);
    if col(i)='' then col(i)='0';
  end;
run;

/*for QC purpose*/
data odata.t15020501;
  set all;
run;

data final;
  set final;
  by avisitn avisit ord avalcat1;
  retain _page 1;
  if first.AVISIT then _c+1;
  if _c=5 then do;
    _page+1;
    _c=1;
  end;

  avalcat1=tranwrd(avalcat1,'<=','^{unicode 2264}');
  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;

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

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%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 AVISITN ('^S={just=1}Timepoint' AVISIT) ord ('^S={just=1}Statistic' avalcat1)
    ("^R'\brdrb\brdrs 'SA+(N=%cnpres(&n))" ('^S={just=1}8:00 AM-09:30 AM' _15) ('^S={just=1}12:00 PM-01:30 PM'
_25)
    ('^S={just=1}04:00 PM-05:30 PM' _35) ('^S={just=1}08:00 PM-09:30 PM' _45)))
;
  where _page =&i.;

  define _page/group order=internal noprint;
  define AVISITN/group order=internal noprint;
  define AVISIT/group ' ' order=internal style(column)=[cellwidth=8% just=1];
  define ord/group order=internal noprint;
  define avalcat1/group ' ' order=internal style(column)=[cellwidth=8% just=1];
  define _15/display ' ' style(column)=[just=c cellwidth=10%];
  define _25/display ' ' style(column)=[just=c cellwidth=10%];
  define _35/display ' ' style(column)=[just=c cellwidth=10%];
  define _45/display ' ' style(column)=[just=c cellwidth=10%];

  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 ' ";
endcomp;

compute before _page;
line @1 "";
endcomp;

compute after _page_/style=[fontsize=1.75];
line @1 "Note: SA = Conventional cigarettes; 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;

run;
%end;

%mend;
%reppart;

ods listing;
ods rtf close;

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