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/*****
* Project       : ZRHM-REXA-07-JP
* Program name  : T15020624_ZRHM_REXA_07_JP_V1.sas
* Author       : C. Liu
* Date created  : 06/11/2015
* Purpose      : Summary of Weight, Waist Circumference and BMI Results  Safety Population
* Revision History
* Date         Author      Ref      Revision
* 07/02/2015   C. Liu      Per Client's comments
* 7/17/2015    C.Liu      Per Client's comments, remove all LOCF records
*****/

%let prgname=T15020624_ZRHM_REXA_07_JP_V1;

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

%titlecsv(prgname=&prgname.,version=5);

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

options missing="";

title;
footnote;

/*population - post-randomization safety*/
data _adsl;
  set adam.adsl;
  where SAFABL='Y';
  if TRT01AN=3 then TRT01AN=6;
run;

proc sort data=_adsl out=_p;
  by TRT01AN;
quit;

data _trxf(keep=fmtname start label);
  set _p end=lr;
  by TRT01AN;
  if first.TR01AN then _c=.;
  _c+1;
  _t+1;
  fmtname='_trxf';
  if last.TR01AN then do;
    call symput('_'||left(trim(left(put(TRT01AN,8))),trim(left(put(_c,8)))));
    start=TRT01AN;
    label='\brdrb\brdrs '||trim(left(TRT01A))||'+(N=||trim(left(put(_c,8))))||';
    output;
  end;
  if lr then do;
    call symput('_100',trim(left(put(_t,8)))));
    start=100;
    label='\brdrb\brdrs Overall Safety+(N=||trim(left(put(_t,8))))||';
    output;
  end;
run;

proc format cntlin=_trxf;
quit;

/*VS*/
data _vs0;
  set adam.advs;
  where dtype=' ' and paramn in (14 15 16 26) and ((SAFABL='Y' & AVISITN>100 & ANLO1FL='Y') | (SAFBFL='Y' & TRTAN in (
3 4 5) & ABLFL='Y'));
  avisit=scan(avisit,1,'/');
  if ablf1='Y' then do;
    avisitn=1; avisit='Baseline';
  end;
  avalu=tranwrd(avalu,'2','^{super 2}');
  if avalu ne '' then param=strip(param)||' ('||strip(avalu)||)';
  if TRTAN=3 then TRTAN=6;
  if paramn=14 then paramn=18;
  output;
  if paramn=16 then do;
    paramn=17; param='Body Mass Index (Categ.)';
    avalc=avalcat1;
    output;
  end;
run;

data _vs0;

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set _vs0;
  _h=1;
  _res=AVAL;
  output;
  _h=2;
  _res=CHG;
  output;
  TRTAN=100;
  _h=1;
  _res=AVAL;
  output;
  _h=2;
  _res=CHG;
  output;
run;

proc sort data=_vs0;
  by PARAMN PARAM AVISITN AVISIT TRTAN _h;
quit;

proc freq data=_vs0(where=(paramn = 17 and _h=1)) noprint;
  table paramn*param*avisitn*avisit*trtan*_h/out=_vs1;
  table paramn*param*avisitn*avisit*trtan*_h*avalc/out=_vs2 outpct;
run;

data _vs3;
  set _vs1 _vs2;
  by PARAMN PARAM AVISITN AVISIT TRTAN _h;

  length result _name_ $20;
  if avalc='' then result=put(count,8.);
  else result=strip(put(count,best.))||' ('||strip(put(pct_tabl,4.1))||'%)';

  if avalc='' then _name_='N';
  else _name_=avalc;
run;

proc univariate data=_vs0(where=(paramn ne 17)) noprint;
  by PARAMN PARAM AVISITN AVISIT TRTAN _h;
  var _res;
  output out=_vs4 n=n mean=Mean std=SD median=Median min=Min max=Max;
quit;

proc transpose data=_vs4 out=_vs5;
  by PARAMN PARAM AVISITN AVISIT TRTAN _h;
  var n Mean SD Median Min Max;
quit;

data _vs6;
  set _vs3 _vs5;
  by PARAMN PARAM AVISITN AVISIT TRTAN _h;

  keep param: avisit: trtan _h result _name_ _label_ col1;
run;

/*for QC purpose*/
data odata.t15020624;
  set _vs6;
run;

data _vs7;
  set _vs6;
  by PARAMN PARAM AVISITN AVISIT TRTAN _h;
  retain _page 1;
  if first.AVISIT then _c+1;
  if _c=3 or (paramn=18 and avisitn=1 and first.avisit) then do;
    _page+1;
    _c=1;
  end;
  drop _c;
run;

proc sort data=_vs7;
  by _page;
run;

%global totalpage;

data _null_;
  set _vs7 end=eof;

  if eof then do;
    call symput('totalpage', trim(left(put(_page,8.))));
  end;
run;

%put totalpage=&totalpage;

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data _rpt(keep=_page PARAMN PARAM AVISITN AVISIT _ord _name_ TRTAN _h start)
  _rfmt(keep=start label ffmtname);
set _vs7;
by _page PARAMN PARAM AVISITN AVISIT TRTAN _h;
format label $40.;
start=_n_;
select(upcase(_name_));
  when ('N') do;
    _ord=1;
    _name_='n';
    if (_h^=2 | AVISITN^=1) and col1 ne . then label=trim(left(put(col1,8.)));
  else if col1=. then label=result;
    else label='';
  end;
  when ('UNDERWEIGHT') do;
    _ord=2;
    _name_='Underweight';
    label=result;
  end;
  when ('NORMAL WEIGHT') do;
    _ord=3;
    _name_='Normal weight';
    label=result;
  end;
  when ('OVERWEIGHT') do;
    _ord=4;
    _name_='Overweight';
    label=result;
  end;
  when ('OBESE') do;
    _ord=5;
    _name_='Obese';
    label=result;
  end;
  when ('MEAN') do;
    _ord=2;
    _name_='Mean';
    if _h^=2 | AVISITN^=1 then do;
      if paramn=26 then label=trim(left(put(col1,8.1)));
      else label=trim(left(put(col1,8.2)));
    end;
    else label='';
  end;
  when ('SD') do;
    _ord=3;
    _name_='SD';
    if _h^=2 | AVISITN^=1 then do;
      if paramn=26 then label=trim(left(put(ceil(col1*100)/100,8.2)));
      else label=trim(left(put(ceil(col1*1000)/1000,8.3)));
    end;
    else label='';
  end;
  when ('MEDIAN') do;
    _ord=4;
    _name_='Median';
    if _h^=2 | AVISITN^=1 then do;
      if paramn=26 then label=trim(left(put(col1,8.1)));
      else label=trim(left(put(col1,8.2)));
    end;
    else label='';
  end;
  when ('MIN') do;
    _ord=5;
    _name_='Min';
    if _h^=2 | AVISITN^=1 then do;
      if paramn=26 then label=left(put(col1,8.0));
      else label=left(put(col1,8.1));
    end;
    else label='';
  end;
  when ('MAX') do;
    _ord=6;
    _name_='Max';
    if _h^=2 | AVISITN^=1 then do;
      if paramn=26 then label=trim(left(put(col1,8.0)));
      else label=trim(left(put(col1,8.1)));
    end;
    else label='';
  end;
  otherwise;
end;
ffmtname='_vsrpt';
run;

proc format cntlin=_rfmt;
quit;

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proc format;
  value _sh 1='Raw+value'
           2='+Change';
quit;

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

%macro reppart;

  %do i = 1 %to &totalpage;

proc report data=_rpt headskip headline spacing=4 nowd split='+' style=[outputwidth=100%]
  style(header column)=[protectspecialchars=off];
  columns _page PARAMN ('^S={just=1}Parameter+(units)' PARAM) AVISITN ('^S={just=1}Study+Day' AVISIT) _ord ('^S={just
=1}Statistic' _name_) (TRTAN,(_h,start));
  where _page =&i.;

  define _page/group order=internal noprint;
  define PARAMN/group order=internal noprint;
  define PARAM/group ' ' order=internal style(column)=[cellwidth=15% just=1 font_weight=bold vjust=b];
  define AVISITN/group order=internal noprint;
  define AVISIT/group ' ' order=internal style(column)=[cellwidth=7% just=1 vjust=b];
  define _ord/group order=internal noprint;
  define _name_/group ' ' order=internal style(column)=[cellwidth=10% just=1 vjust=b];
  define TRTAN/across ' ' order=internal f=_trxf. style(column)=[just=c];
  define _h/across ' ' order=internal f=_sh. style(column)=[just=c];
  define start/analysis ' ' f=_vsrpt. style(column)=[just=c cellwidth=8% vjust=b];

  compute after AVISITN;
    line ' ';
  endcomp;
  break after _page/page;

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

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 after _page_/style=[fontsize=1.75];
line @1 "Note: mCC = Menthol conventional cigarettes; SA = Smoking abstinence; THSm2.2 = Tobacco Heating System 2.2 Ment
hol.";
line @1 "Note: Change is change from baseline, where baseline is defined defined as the last assessment prior to first r
andomized product use in mCC / THS 2.2";
line @1 "Menthol arms or the last assessment prior to 10 AM on Day 1 in the SA arm.";
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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