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/*****
* Project       : ZRHM-REXA-07-JP
* Program name  : t15020620_ZRHM_REXA_07_JP_v1.sas
* Author       : H. Shu
* Date created  : 05/21/2015
* Purpose      : Summarize supine vital signs data for the study.
* Revision History
* Date         Author      Ref      Revision
* 05/25/2015  HS          Adjusted to naming convention
* 05/30/2015  HS          Adjusted to revised naming convention and title/footnote formatting
* 06/11/2015  HS          Adjusted based on review comments including new title/footnote formatting
* 07/13/2015  HS          Corrected QC data set
*****/
%let prgname=T15020620_ZRHM_REXA_07_JP_V1;
options sasautos=( "W:\pmp07\macros" sasautos );
%init(delivery=9);
%titlecsv(prgname=&prgname,version=3);
%trtrtftg(pgmname=&outname., pgmid=1, new=0, style=, bookmark=%lowcase(&outname.));

/*population - post-randomization safety*/
data _adsl;
  set adam.adsl;
  where SAFAFI='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(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 ((SAFAFI='Y' & AVISITN>100) | (SAFAFI='Y' & TRTAN in (3 4 5) & ABLFI='Y')) & VSPOS='SUPINE' & AVAL>=0 & ANL01
FL='Y' & DTYPE='';
  if TRTAN=3 then TRTAN=6;
  _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 AVALU AVISITN AVISIT TRTAN _h;
quit;

proc univariate data=_vs0 noprint;
  by PARAMN PARAM AVALU AVISITN AVISIT TRTAN _h;
  var _res;
  output out=_vs1 n=n mean=Mean std=SD median=Median min=Min max=Max;
quit;

proc transpose data=_vs1 out=_vs2;
  by PARAMN PARAM AVALU AVISITN AVISIT TRTAN _h;

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var n Mean SD Median Min Max;
quit;

/*for QC purpose*/
data odata.t15020620;
set _vs2;
run;

data _vs3;
set _vs2;
by PARAMN PARAM AVALU AVISITN AVISIT TRTAN _h;
if first.AVISIT then _c+1;
if _c=3 then do;
    _page+1;
    _c=1;
end;
drop _c;
run;

data _rpt(keep=_page _tp PARAMN PARAM PARAM_ AVISITN AVISIT _ord _name_ TRTAN _h start)
_rfmt(keep=start label fmtname);
set _vs3;
by _page PARAMN PARAM AVALU AVISITN AVISIT TRTAN _h;
format label $40.;
PARAM_='';
_tp='_tp';
start=_n_;
if AVISIT='Day 0' then AVISIT='Baseline';
else if AVISIT='Day 6/Discharge Confinement' then AVISIT='Day 6';
else if AVISIT='Day 91/Discharge Ambulatory' then AVISIT='Day 91';
if AVALU in ('BEATS/MIN' 'BREATHS/MIN') then AVALU=lowercase(AVALU);
PARAM=trim(left(PARAM))||' ('||trim(left(AVALU))||')';
select(_name_);
when ('N') do;
    _ord=1;
    _name_='n';
    if _h^=2 | AVISITN^=100 then label=trim(left(put(col1,8.)));
    else label='';
end;
when ('MEAN') do;
    _ord=2;
    _name_='Mean';
    if _h^=2 | AVISITN^=100 then label=trim(left(put(col1,8.1)));
    else label='';
end;
when ('SD') do;
    _ord=3;
    _name_='(SD)';
    if _h^=2 | AVISITN^=100 then label='('||trim(left(put(ceil(100*col1)/100,best.))||')';
    else label='';
end;
when ('MEDIAN') do;
    _ord=4;
    _name_='Median';
    if _h^=2 | AVISITN^=100 then label=trim(left(put(col1,8.1)));
    else label='';
end;
when ('MIN') do;
    _ord=5;
    _name_='Min,';
    if _h^=2 | AVISITN^=100 then label=trim(left(put(col1,8.1)))||',';
    else label='';
end;
when ('MAX') do;
    _ord=6;
    _name_='Max';
    if _h^=2 | AVISITN^=100 then label=trim(left(put(col1,8.1)));
    else label='';
end;
otherwise;
end;
fmtname='_vsrpt';
run;

proc format cntlin=_rfmt;
quit;

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

%macro bprpt;
proc sql noprint;
select max(_page) into: _tp from _rpt;
quit;

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%do _i=0 %to &_tp;
proc report data=_rpt headskip headline spacing=4 nowd split='+' style=[outputwidth=100%]
    style(header column)=[protectspecialchars=off] missing;
    where _page=&_i;
    columns _page PARAMN PARAM ('^S={just=1}Parameter+(units)' PARAM_) AVISITN ('^S={just=1}Study+Day' AVISIT) _ord ('^
S={just=1}Statistic' _name_) (TRTAN,(_h,start));
    define _page/group order=internal noprint;
    define PARAMN/group order=internal noprint;
    define PARAM/group order=internal noprint;
    define PARAM_/group ' ' order=internal style(column)=[cellwidth=20% just=1];
    define AVISITN/group order=internal noprint;
    define AVISIT/group ' ' order=internal style(column)=[cellwidth=8% just=1];
    define _ord/group order=internal noprint;
    define _name_/group ' ' order=internal style(column)=[cellwidth=8% just=1];
    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=7%];

    compute before PARAM_/style=[just=1];
        line PARAM $40.;
        line ' ';
    endcomp;

    compute after AVISITN;
        line ' ';
    endcomp;

    compute before _page;
        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 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: Change is change from baseline, where baseline is defined as the last assessment prior to first "
"randomized product use in mCC / THS 2.2 Menthol arms or the last assessment prior to 10 AM on Day 1 in t
he SA arm.";
        line @1 " ";
        line @1 "&APPENDIX.";
        line @1 "Study ID:ZRHM-REXA-07-JP          Program: &fprgname..sas          Status: &repversion./&fdate.          Pa
ge: %eval(&_i+1) of %eval(&_tp+1)";
    endcomp;

run;
%end;
%mend;
%bprpt

ods listing;
ods rtf close;

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