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/*****
* Project       : ZRHM-REXA-07-JP
* Program name  : t15020502_ZRHM_REXA_07_JP_v1.sas
* Author       : H. Shu
* Date created  : 06/4/2015
* Purpose      : Summary of Compliance by Period and Overall FAS
* Revision History
* Date      Author      Ref      Revision
* 6/5/2015  HS          New formattings for titles/footnotes
* 6/25/2015 HS          Modified to the new title and footnote format
* 7/12/2015 HS          Modified per PMP comments
* 7/21/2015 HS          Modified per internal validation comments
*****/
%let prgname=T15020502_ZRHM_REXA_07_JP_V1;
options sasautos=("W:\pmp07\macros" sasautos) noquotelenmax;
options sasautos=("W:\pmp07\macros" sasautos) noquotelenmax;
%init(delivery=9);
%titlecsv(prgname=&prgname,version=5);
%trtrtfpg(pgmname=&outname., pgmid=1, new=0, style=, bookmark=%lowcase(&outname.));

data ADSL;
  set adam.ADSL;
  if DISCCAT='Discontinued Period 1 with randomized product use' then do;
    if COMPP2FL='' then COMPP2FL='';
    if CMPCP2FL='' then CMPCP2FL='';
    if COMPP3FL='' then COMPP3FL='';
    if CMPCP3FL='' then CMPCP3FL='';
    if COMPP4FL='' then COMPP4FL='';
    if CMPCP4FL='' then CMPCP4FL='';
  end;

  if DISCCAT='Discontinued Period 2' then do;
    if COMPP3FL='' then COMPP3FL='';
    if CMPCP3FL='' then CMPCP3FL='';
    if COMPP4FL='' then COMPP4FL='';
    if CMPCP4FL='' then CMPCP4FL='';
  end;

  if DISCCAT='Discontinued Period 3' then do;
    if COMPP4FL='' then COMPP4FL='';
    if CMPCP4FL='' then CMPCP4FL='';
  end;
run;

/*Period 1*/
proc freq data=adsl noprint;
  where FASFL='Y';
  tables TRT01PN/out=_p1fas(keep=TRT01PN count); /*FAS*/
  tables TRT01PN*COMPP1FL/missing out=_p1cmp(keep=TRT01PN COMPP1FL count pct_row) outpct; /*COMP - Exclusive product use*/
  tables TRT01PN*CMPCP1FL/missing out=_p1pp(keep=TRT01PN CMPCP1FL count pct_row) outpct; /*PP criterion*/
quit;

data _p1;
  set _p1fas(in=in1) _p1cmp(in=in2 rename=(COMPP1FL=_FL)) _p1pp(in=in3 rename=(CMPCP1FL=_FL));
  format _text1 _FLL $40.;
  _ord2=in1+10*in2+100*in3;
  if in1 then _text1='^S={font_weight=bold just=c}'||left(put(count,8.));
  else do;
    _text1=trim(left(put(count,8.)))||' ('||trim(left(put(pct_row,8.1)))||')';
    if _FL='Y' then _ord3=0;
    else if _FL='N' then _ord3=1;
    else if _FL='' then _ord3=2;
    if _FL='N' then _FLL='          No';
    else if _FL='Y' then _FLL='          Yes';
    else if _FL='' & in3 then _FLL='          Discontinued ^{super (3)} - n(%)';
  end;
  if in2 & _FL='' then delete;
  keep TRT01PN _ord2 _ord3 _FLL _text1;
run;

proc sort data=_p1;
  by TRT01PN _ord2 _ord3;
quit;

/*Period 2*/
proc freq data=adsl noprint;
  where FASFL='Y' /*& DISCCAT^='Discontinued Period 1 with randomized product use'*/;
  tables TRT01PN/out=_p2fas(keep=TRT01PN count); /*FAS*/
  tables TRT01PN*COMPP2FL/missing out=_p2cmp(keep=TRT01PN COMPP2FL count pct_row) outpct; /*COMP - Exclusive product use*/
  tables TRT01PN*CMPCP2FL/missing out=_p2pp(keep=TRT01PN CMPCP2FL count pct_row) outpct; /*PP criterion*/
quit;

proc freq data=adsl noprint;
  where FASFL='Y' & DISCCAT^='Discontinued Period 1 with randomized product use';
quit;

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data _p2;
set _p2fas(in=in1) _p2cmp(in=in2 rename=(COMPP2FL=_FL)) _p2pp(in=in3 rename=(CMPCP2FL=_FL));
format _text2 _FLL $40.;
_ord2=in1+10*in2+100*in3;
if in1 then _text2='^S={font_weight=bold just=c}'||left(put(count,8.));
else do;
_text2=trim(left(put(count,8.)))||' ('||trim(left(put(pct_row,8.1)))||')';
if _FL='Y' then _ord3=0;
else if _FL='N' then _ord3=1;
else if _FL=' ' then _ord3=2;
if _FL='N' then _FLL='No';
else if _FL='Y' then _FLL='Yes';
else if _FL=' ' & in3 then _FLL='Discontinued ^{super (3)} - n(%)';
end;
if in2 & _FL=' ' then delete;
keep TRT01PN _ord2 _ord3 _FLL _text2;
run;

proc sort data=_p2;
by TRT01PN _ord2 _ord3;
quit;

/*Periods 3 & 4*/
proc freq data=adsl noprint;
where FASFL='Y' /*& DISCCAT^in ('Discontinued Period 1 with randomized product use' 'Discontinued Period 2')*/;
tables TRT01PN/out=_p3fas(keep=TRT01PN count); /*FAS*/
tables TRT01PN*COMPP3FL/missing out=_p3cmp(keep=TRT01PN COMPP3FL count pct_row) outpct; /*COMP - Exclusive product
use*/
tables TRT01PN*CMPCP3FL/missing out=_p3pp(keep=TRT01PN CMPCP3FL count pct_row) outpct; /*PP criterion*/
tables TRT01PN/out=_p4fas(keep=TRT01PN count); /*FAS*/
tables TRT01PN*COMPP4FL/missing out=_p4cmp(keep=TRT01PN COMPP4FL count pct_row) outpct; /*COMP - Exclusive product
use*/
tables TRT01PN*CMPCP4FL/missing out=_p4pp(keep=TRT01PN CMPCP4FL count pct_row) outpct; /*PP criterion*/
quit;

data _p3;
set _p3fas(in=in1) _p3cmp(in=in2 rename=(COMPP3FL=_FL)) _p3pp(in=in3 rename=(CMPCP3FL=_FL));
format _text3 _FLL $40.;
_ord2=in1+10*in2+100*in3;
if in1 then _text3='^S={font_weight=bold just=c}'||left(put(count,8.));
else do;
_text3=trim(left(put(count,8.)))||' ('||trim(left(put(pct_row,8.1)))||')';
if _FL='Y' then _ord3=0;
else if _FL='N' then _ord3=1;
else if _FL=' ' then _ord3=2;
if _FL='N' then _FLL='No';
else if _FL='Y' then _FLL='Yes';
else if _FL=' ' & in3 then _FLL='Discontinued ^{super (3)} - n(%)';
end;
if in2 & _FL=' ' then delete;
keep TRT01PN _ord2 _ord3 _FLL _text3;
run;

proc sort data=_p3;
by TRT01PN _ord2 _ord3;
quit;

data _p4;
set _p4fas(in=in1) _p4cmp(in=in2 rename=(COMPP4FL=_FL)) _p4pp(in=in3 rename=(CMPCP4FL=_FL));
format _text4 _FLL $40.;
_ord2=in1+10*in2+100*in3;
if in1 then _text4='^S={font_weight=bold just=c}'||left(put(count,8.));
else do;
_text4=trim(left(put(count,8.)))||' ('||trim(left(put(pct_row,8.1)))||')';
if _FL='Y' then _ord3=0;
else if _FL='N' then _ord3=1;
else if _FL=' ' then _ord3=2;
if _FL='N' then _FLL='No';
else if _FL='Y' then _FLL='Yes';
else if _FL=' ' & in3 then _FLL='Discontinued ^{super (3)} - n(%)';
end;
if in2 & _FL=' ' then delete;
keep TRT01PN _ord2 _ord3 _FLL _text4;
run;

proc sort data=_p4;
by TRT01PN _ord2 _ord3;
quit;

/*Overall*/
proc freq data=adsl noprint;
where FASFL='Y';
tables TRT01PN/out=_ovfas(keep=TRT01PN count); /*FAS*/
tables TRT01PN*CMPPOVFL/missing out=_ovcmp(keep=TRT01PN CMPPOVFL count pct_row) outpct; /*COMP - Exclusive product
use*/
tables TRT01PN*CMPCOVFL/missing out=_ovpp(keep=TRT01PN CMPCOVFL count pct_row) outpct; /*PP criterion*/

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quit;

data _ov;
set _ovfas(in=in1) _ovcmp(in=in2 rename=(CMPPOVFL=_FL)) _ovpp(in=in3 rename=(CMPCOVFL=_FL));
format _texto _FLL $40.;
_ord2=in1+10*in2+100*in3;
if in1 then _texto='^S={font_weight=bold just=c}'||left(put(count,8.));
else do;
    _texto=trim(left(put(count,8.)))||' ('||trim(left(put(pct_row,8.1)))||')';
    _ord3=(_FL='N');
    if _FL='N' then _FLL='No';
    else if _FL='Y' then _FLL='Yes';
    else if _FL='' & in3 then _FLL='Discontinued ^{super (3)} - n(%)';
end;
keep TRT01PN _ord2 _ord3 _FLL _texto;
run;

proc sort data=_ov;
by TRT01PN _ord2 _ord3;
quit;

data _rpt;
merge _p1 _p2 _p3 _p4 _ov;
by TRT01PN _ord2 _ord3;
array _text(5) _text1-_text4 _texto;
do i=1 to 5;
    if _text(i)='' then _text(i)='0';
end;
if TRT01PN=3 then _ord1=6;
else if TRT01PN in (4 5) then _ord1=TRT01PN;

if _ord2=1 & _FLL='' then do;
    if _ord1=4 then _FLL='^S={font_weight=bold}THSm2.2 ¶ N';
    else if _ord1=5 then _FLL='^S={font_weight=bold}mCC ¶ N';
    else if _ord1=6 then _FLL='^S={font_weight=bold}SA ¶ N';
end;

if TRT01PN=5 & _ord2=100 & _ord3<=1 then delete;
drop i;
run;

proc sort data=_rpt;
by _ord1 _ord2 _ord3;
quit;

/*for QC purpose*/
data odata.t15020502;
set _rpt;
run;

proc report data=_rpt headskip headline spacing=4 nowd split='+' style=[outputwidth=100%]
    style(header column)=[protectspecialchars=off] missing;
columns (_ord1 _ord2 _ord3 _FLL ("^R'\brdrb\brdrs 'Confinement" _text1)
    ("^R'\brdrb\brdrs 'Ambulatory" _text2-_text4) (^S={just=c}Overall' _texto));

define _ord1/group order=internal noprint;
define _ord2/group order=internal noprint;
define _ord3/group order=internal noprint;
define _FLL/group '^S={just=1}Compliance' order=internal style(column)=[cellwidth=20% just=1 asis=on];
define _text1/group 'Period 1' order=internal style(column)=[cellwidth=12% just=c];
define _text2/group 'Period 2' order=internal style(column)=[cellwidth=12% just=c];
define _text3/group 'Period 3' order=internal style(column)=[cellwidth=12% just=c];
define _text4/group 'Period 4' order=internal style(column)=[cellwidth=12% just=c];
define _texto/group 'FAS' order=internal style(column)=[cellwidth=12% just=c];

compute before _ord2/style={just=1 asis=on};
length _lt $55;
if _ord1 in (4 5) then do;
    if _ord2=1 then _lt='^S={font_size=3pt} ';
    else if _ord2=10 then _lt='Exclusive product use ^{super (1)} - n(%)';
    else if _ord2=100 & _ord1=4 then _lt='PP criterion ^{super (2)} - n(%)';
    else if _ord2=100 & _ord1=5 then _lt='^S={font_size=1pt} ';
end;
else if _ord1=6 then do;
    if _ord2=1 then _lt='^S={font_size=3pt} ';
    else if _ord2=10 then _lt='Abstinent ^{super (1)} - n(%)';
    else if _ord2=100 then _lt='PP criterion ^{super (2)} - n(%)';
end;
line _lt $55.;
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];

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line @1 "Note: mCC = Menthol conventional cigarettes; SA = Smoking abstinence; THSm2.2 = Tobacco Heating System 2
.2 Menthol.";
line @1 "[1]: No use of any nicotine or tobacco-containing product other than the assigned product. However, in t
he SA arm, "
"NRT use is allowed during the study. In the SA arm, 100% abstinence also requires CO breath test ^{unico
de 2264}10 ppm "
"(apart from at Day 1). (Criterion for compliant population)";
line @1 "[2]: No use of more than 2 CC during a single day within any time period and no use of on average more t
han 0.5 CC "
"per day over the exposure Study";
line @1 "[3]: Discontinued in previous period, for each period.";
line @1 "Note: Percentages are based on the number of subjects (N) in the FAS for each arm "
"and period (first row of each arm).";
line @1 " ";
line @1 "&APPENDIX.";
line @1 "Study ID:ZRHM-REXA-07-JP          Program: &fprgname..sas          Status: &repversion./&fdate.          Pa
ge: 1 of 1";
endcomp;
run;

ods listing;
ods rtf close;

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