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/*=====
| Covance Study Number      : 000000106343      |
| Program Name              : f_mnws_ls_pp.sas    |
| Purpose                   : Figure 15.1.2.9.1    |
| Input Data                : tflds.t_15_02_04_57_01_f |
| Output Data              : F_15_01_02_09_01      |
| Macros Called             :                    |
| Originally Performed by  :Jyothsna Reddy        |
| Date                     : 28MAY2015            |
|=====
| Modification History
|-----
| Modified by              :
| Modification Date       :
| Modification Description :
+=====*/

options replace;
proc datasets lib=work kill memtype=data nolist;
run;
%m_printto;
%let tfldno=F_15_01_02_09_01;

PROC FORMAT;
VALUE XAXIS_
  4.5='1'
  9='2'
  13.5='3'
  18='4'
  22.5='5'
      45='30'
      67.5='60'
      90='90'
  0='Baseline'
;

RUN;

/* Standard - leave this */
%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str());

/* Standard - leave this */

data _null_;
  tmp="&TFL_Part";
  if tmp not in ("dev" "qc") then call symput("TFL_Part", "prod");
  call symput('TFLpath', compress("&_SASPROGRAMFILE",""));
run;
options notes source source2 nofullstimer validvarname=upcase
nonumber nodate orientation=portrait missing=' ';
ods graphics on; /* As we are effectively using ODS graphics we need to ensure that it is turned on */
ods graphics / height=12cm width=16cm noborder; /* Removes border around the image */
ods path reset;
/* please include styles template */
%include "/cvn/projects/prj/development/000000106343/dev/figures/figtplt.sas";

ods rtf toc_data file="/cvn/projects/prj/data/000000106343/TFL/dev/Tables/&tfldno..rtf" style=t106343_g1 startpage=yes headery=1440 footery=1440 ;

ods exclude all;

data forest;
  length trta $50;
  set tflds.t_15_02_04_57_01_f;
  trta=diffotyp;
if TRTA="THSm2.2vs.mCC" then TRTAN=1;
if TRTA="THSm2.2vs.SA" then TRTAN=2;

  if not missing(TRTA) ;
run;

proc sort data=forest out=forest1;
  by param ;
run;

proc sort data=forest out=uqparam nodupkey;
  by paramn ;

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run;
data extra(keep=paramn param trta trtan avisitn);
  set uqparam;
  avisitn=100;
  TRTA="THSm2.2vs.mCC" ;
  TRTAN=1;
  output;
  avisitn=100;
  TRTA="THSm2.2vs.SA" ;
  TRTAN=2;
  output;

run;
data dforest1(keep= param paramn avisit1 trtan trta avisitn avisit mean LCLM UCLM gmean tpt);
format gmean 6.2;
length tpt 3 avisit1 8;
  set forest1(rename=( upper=uclm lower=lclm ESTIMATE=mean)) extra;
  IF avisitn=100 THEN avisit1=0;
  IF avisitn=102 THEN avisit1=1;
  IF avisitn=103 THEN avisit1=2;
  IF avisitn=104 THEN avisit1=3;
  IF avisitn=105 THEN avisit1=4;
  IF avisitn=106 THEN avisit1=5;
  IF avisitn=130 THEN avisit1=6;
  IF avisitn=160 THEN avisit1=7;
  IF avisitn=190 THEN avisit1=8;
  if not missing(lclm) then lclmx = 0.1*floor(lclm/0.1);
  if not missing(uclm) then uclmx = 0.1*ceil(uclm/0.1);
  tpt=avisit1;

  if not missing(mean) then mean=round(mean,0.1);
  gmean=mean;IF AVISITN=99 THEN DELETE;
run;
proc sort data=dforest1;
  by param ;
run;

data adbx3;
  set dforest1 ;
  by param ;
par=1;
run;

PROC SQL;
CREATE TABLE ADBX3_X AS
SELECT PARAM, TRTA, AVISIT, mean, lclm, uclm
FROM ADBX3;
QUIT;
PROC EXPORT DATA=ADBX3_X DBMS=XLSX OUTFILE="/cvn/projects/prj/data/000000106343/TFL/dev/Tables/&tflno..xlsx" REPLACE;
SHEET=Sheet1;

title;
footnote;
proc sort data=adbx3;
by par;
data paging; /* paging is derived normally as with RTF type TFL */

  set adbx3 end=last;
  page = 1;
  if tpt=1 then newvis=4.5;
  else if tpt=2 then newvis=9;
  else if tpt=3 then newvis=13.5;
  else if tpt=4 then newvis=18;
  else if tpt=5 then newvis=22.5;
  else if tpt=6 then newvis=45;
  else if tpt=7 then newvis=67.5;
  else if tpt=8 then newvis=90;
  else newvis=tpt;
run;

proc sort data=paging out=uniqpar nodupkey;by paramn;run;

%let maxpage=1;

/*Figure Output*/
/*_____*/

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%macro graph();
%do i=1 %to 1; /* paging can either be done through a do loop or multiple macro calls */
  %do j=1 %to &maxpage %by 1;

data plot1;
  set paging;
  parm=strip(param);
  drop param;
  rename parm=param;
run;

proc sql noprint;
  select param into:param trimmed
  from plot1;
quit;

data plot;
  set plot1;
run;
proc sort data=plot; by avisitn;run;

proc template;
  define statgraph splot ;
    begingraph ;
      layout overlay / border=false
        axisopts=(linearopts=(tickvaluelist=(0 4.5 9 13.5 18 22.5 45 67.5 90) TICKVALUEFITPOLICY=ROTATE) label="Study D
ay")
        yaxisopts=(linearopts=(tickvaluesequence=(start=-1 end=1 increment=1) viewmin=-1 viewmax=1)
          label="&param") cycleattrs=false;

      referenceline y=0 / lineattrs=(pattern=solid);
      seriesplot x=newvis y=mean / index=trtan primary=true group=trta display=(markers) legendlabel="mean" name="series";
      scatterplot x=newvis y=gmean / index=trtan group=trta yerrorlower=lclm yerrorupper=uclm legendlabel="mean"
        name="scatter" ;
      discretelegend "series";
    endlayout;
  endgraph;
end;
run;

ods select all;

ODS ESCAPECHAR='^';
ODS RTF PREPAGE="^S={outputwidth=100% just=1 font_size=12pt font_weight=bold background=white foreground=black font_face=arial}^R/RT
F'\QL' Figure 15.1.2.9.1 MNWS Total Score Least Squares Means Differences and 95% CI - PP Set";

ods rtf style=t106343_g1;

proc sgrender data=plot template=splot; /* applies the above template to the specified data */
FORMAT newvis XAXIS_.;
run;

ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white foreground=black font_face=arial}^R/RTF'\QL' Note: mCC = Me
nthol conventional cigarettes; SA = Smoking abstinence; THSm2.2 = Tobacco Heating System 2.2 Menthol.";
ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white foreground=black font_face=arial}^R/RTF'\QL' Note: Baseline
is the last assessment prior to first product use in mCC/THS 2.2 arms on Day 1 or last assessment prior to 10:00 AM in SA a
ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white foreground=black font_face=arial}^R/RTF'\QL' Note: MNWS-R t
otal score reported a scale of 0 to 4. Higher scores indicate greater intensity of withdrawal symptoms.";
ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white foreground=black font_face=arial}^R/RTF'\QL'";

ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white foreground=black font_face=arial}^R/RTF'\QL' Appendix 15.2.
4.57.1";
%let tflprg=f_mnws_ls_pp;

ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white foreground=black font_face=arial}^R/RTF'\QL' Study ID:ZRHM-
REXA-08-US Program: &tflprg..sas &sysdate Status: &status. (Page &j of &maxpage)";

%end;
%end;
%mend graph;
%graph;

ods _all_ close;
ods graphics / reset;
%m_logchk;

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