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/*=====
| Covance Study Number      : 000000106343      |
| Program Name              : f_15_01_02_25_02.sas |
| Purpose                   : Figure 15.1.2.28.1   |
| Input Data                : ADAM.ADBX           |
| Output Data               : F_15_01_02_25_02    |
| Macros Called             :                    |
| Originally Performed by   :Jyothsna Reddy       |
| Date                     : 20JUL2015           |
|=====
| Modification History
|-----
| Modified by              :
| Modification Date        :
| Modification Description :
+=====*/

options notes source source2 nofullstimer validvarname=upcase missing=' ';
ods _all_ close;

ods listing;
=====;
* START OF PROGRAM CODE                               ;
=====;
%m_printto;

%let tflno=F_15_01_02_25_02;
/* Standard - leave this */
%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str(/));

data _null_;
    tmp="%TFL_Part";
    if tmp not in ("dev" "qc") then call symput("TFL_Part", "prod");
    call symput('TFLpath', compress("&_SASPROGRAMFILE",""));
run;

%put &tflpath;
ods _all_ close;

options notes source source2 nofullstimer validvarname=upcase
nonumber nodate orientation=portrait missing=' ';
ods graphics on;
ods graphics / height=12cm width=16cm noborder;
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/&tflno..rtf" style=t106343_g startpage=yes headery=1440 fo
otery=1440 ;
ods exclude all;

/****Day 90 data: 4H urine sample****/
data data1;
    set adam.adbx;
    where FASFL="Y" and avisitn in (190) and LBSPEC in ("URINE") and parcat2 in ("4H URINE SAMPLE")
        and index(paramcd,"UMPMCRE4")>0 and ANL02FL="Y";
    keep usubjid avisitn parcat2 paramcd aval trta base avisit trtp trtpn ;
    rename aval=aval4 base=base4;
run;
proc sort; by usubjid avisitn ;run;

/****Day 90 data: 24H urine sample****/
data data2;
    set adam.adbx;
    where FASFL="Y" and avisitn in (190) and LBSPEC in ("URINE") and parcat2 in ("24H URINE SAMPLE")
        and index(paramcd,"UHMPMCRE")>0 and ANL02FL="Y";
    keep usubjid avisitn parcat2 paramcd aval trta base avisit param;

    rename aval=aval24 base=base24;
run;

proc sort; by usubjid avisitn ;run;

/****mergring 4H and 24H data*/
data data3;
    merge data1(in=a drop=paramcd parcat2 trta) data2(in=b drop=paramcd parcat2);
    by usubjid avisitn avisit;
    if a or b;

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run;

data data4;
  set data3(in=a keep=usubjid avisitn aval24 aval4 trta avisit param trtp trtpn)
    data3(in=b keep=usubjid avisitn base24 base4 trta avisit param trtp trtpn rename=(base4=aval4 base24=aval24));
  if b then visnum=0;
  if a then visnum=90;
  if visnum=0 then avisit="Baseline";
  avisitn = visnum;
run;
proc sort; by usubjid visnum;run;

proc sort data=data4; by avisit;run;

data data5;
  set data4(in=a keep=usubjid aval24 aval4 avisit avisitn trtp trtpn param);
  if not missing(aval24) and not missing(aval4) then do;
    diff=aval24-aval4;
    avg=(aval24+aval4)/2;
  end;
  _type_ = 0;

run;
proc sort; by usubjid ;run;

ods listing;
proc means data=data5;
  var diff;
  output out=aa mean=dmean lclm=dlcl uclm=ducl ;
run;

data data6(drop = _type_ _freq_);
  merge data5 aa;
  by _type_;
run;

PROC EXPORT
DATA=data6
DBMS=XLSX
OUTFILE="/cvn/projects/prj/data/000000106343/TFL/dev/Tables/&tflno..xlsx"
REPLACE;
SHEET=Sheet1;

data tfls.&tflno.;
  set data6;
run;

proc transpose data=aa out=trans;
by _type_;
run;

data trans1;
  set trans;
  down = floor(col1*100)/100;
  up = ceil(col1*100)/100;

run;

data _null_;
  set trans1;
  if _name_ ne "_FREQ_" then call symput(_name_,strip(put(col1,8.2)));
  if _name_ ne "_FREQ_" and upcase(_name_) in ("DLCL") then call symput(_name_,strip(put(down,8.2)));
  if _name_ ne "_FREQ_" and upcase(_name_) in ("DUCL") then call symput(_name_,strip(put(up,8.2)));

run;
%put &dmean &dlcl &ducl;

proc sql;
  create table minmax as

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select max(avg) as xmax, min(avg) as xmin, max(diff) as ymax, min(diff) as ymin
from data5
;
quit;

data _null_;
set minmax;
call symput("xmin", strip(put(floor(xmin),best.)));
call symput("xmax", strip(put(ceil(xmax),best.)));
call symput("ymin", strip(put(floor(ymin),best.)));
call symput("ymax", strip(put(ceil(ymax),best.)));
run;
%put &xmin &xmax &ymin &ymax;

/** create template***/
proc template;
define statgraph splot ;
begingraph;

layout overlay / border=false
axisopts=(linearopts=(tickvaluesequence=(start=0 end=1100 increment=100) viewmin=0 viewmax=1100 TICKVALUEFITPOLICY=ROT
ATE)
label="Average [(24 Hour + 4 Hour)/2]"
yaxisopts=(linearopts=(tickvaluesequence=(start=-1000 end=400 increment=100) viewmin=-1000 viewmax=400)
label="Difference (24 Hour - 4 Hour)")
cycleattrs=false;

drawtext textattrs=(style=italic size=9pt) "--- Mean difference = &dmean"/
anchor=top width=35 widthunit=percent xspace=wallpercent yspace=wallpercent x=18 y=100 justify=center ;
drawtext textattrs=(style=italic size=9pt) "... 95% CI = (&dlcl, &ducl)"/
anchor=top width=35 widthunit=percent xspace=wallpercent yspace=wallpercent x=18 y=97 justify=center ;

scatterplot x=avg y=diff ;

referenceline y=&dlcl / lineattrs=(pattern=dot) ;
referenceline y=&dmean / lineattrs=(pattern=dash) ;
referenceline y=&ducl / lineattrs=(pattern=dot) ;

endlayout;
endgraph;
end;
run;

/** graph***/
ods select all;
ods rtf style=t106343_g;
ODS ESCAPECHAR='^';
ODS RTF PREPAGE="^S={outputwidth=100% just=1 font_size=12pt font_weight=bold background=white foreground=black font_face=arial}^R/RTF'\QL' Figure 15.1.2.25.2 Bland-Altman Plot for Concordance of Urinary HMPMA Concentration Adjusted for Creatinine from 24 H

proc sgrender data=data5 template=splot; /* applies the above template to the specified data */
run;
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' 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: Data fro
m all 3 randomized groups are presented.";
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 15.3.
3.1, 15.3.3.5.";

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: f_ba_hmpma.sas &sysdate Status: &status. (Page 1 of 1)";

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

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