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/*=====
| Covance Study Number      : 000000106343
| Program Name              : f_15_01_02_28_01.sas
| Purpose                   : Figure 15.1.2.28.1
| Input Data                : ADAM.ADBX
| Output Data               : F_15_01_02_28_01
| 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_28_01;

/* 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 ("RISK MARKERS" )
    and index(paramcd,"UXB2CRE4")>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 ( "RISK MARKERS")
    and index(paramcd,"UTXB2CRE")>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;

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/**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;
run;

/**to calculate correlation***/
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;

ods html;

proc corr data=data4 nomiss outs=corr noprint;
  var aval24 aval4;
run;

ods html close;

data corr2;
  set corr;
  where _name_="AVAL4";
  keep aval24 corr _type_;
  corr="r="||strip(put(aval24,8.4));

  /* _type_ = input("1",best.);*/
run;

/**store correlation values as a macro variable***/
data _null_;
  set corr2;
  call symput("rcoef",corr);
run;

%put &rcoef;

/*****/
data data5;
  length _type_ $8.;
  set data4;

  _type_ = "CORR";
run;

proc sort;
  by usubjid;
run;

data data6(drop = _type_);
  merge data5 corr2(drop=aval24);
  by _type_;
run;

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

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

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

proc sql;
  create table minmax as
    select max(aval4) as max4, min(aval4) as min4, max(aval24) as max24, min(aval24) as min24
    from data4
  ;
quit;

data _null_;
  set minmax;
  maxcol=max(max4, max24);
  call symput("min4", strip(put(floor(min4),best.)));
  call symput("max4", strip(put(ceil(max4),best.)));
  call symput("min24", strip(put(floor(min24),best.)));
  call symput("max24", strip(put(ceil(max24),best.)));
  call symput("max",strip(put(ceil(maxcol),best.)));
run;

%put &min4 &max4 &max24 &min24 &max;

/**** create template****/
proc template;
  define statgraph splot;
    begingraph;
    layout lattice / columns=1 rows=1 rowdatarange=union columndatarange=union columngutter=15;
    layout overlay / border=false
      xaxisopts=(linearopts=(tickvaluesequence=(start=0 end=4000 increment=500) viewmin=0 viewmax=4000 TICKVALUEFITPOLICY=ROTATE) la
bel="24hr Urine Sample")
      yaxisopts=(linearopts=(tickvaluesequence=(start=0 end=4000 increment=500) viewmin=0 viewmax=4000 ) label="4hr Urine Sample")
      cycleattrs=false;
    drawtext textattrs=(style=italic size=10pt) "&rcoef" /
      anchor=top width=15 widthunit=percent xspace=wallpercent yspace=wallpercent x=10 y=95 justify=center;
    scatterplot x=aval24 y=aval4;
    endlayout;

  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/RT
F'\QL' Figure 15.1.2.28.1 Scatter Plot of Urinary 11-DTX-B2 Concentration Adjusted for Creatinine from 24 Hour Urine Collect

proc sgrender data=data4 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_sc_11dtx.sas &sysdate Status: &status. (Page 1 of 1)";
ods _all_ close;
ods graphics / reset;

%m_logchk;

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