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/*=====
| Covance Study Number   : 000000106343
| Program Name           : f_15_01_02_22_01.sas
| Purpose                : Figure 15.1.2.22.1
| Input Data             : ADAM.ADBX
| Output Data            : F_15_01_02_22_01
| Macros Called          :
| Originally Performed by :Jyothsna Reddy
| Date                   : 20JUL2015
|
|=====
| Modification History
|-----
| Modified by            :
| Modification Date      :
| Modification Description :
|=====
+=====*/

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```

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

```

```

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

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%let tflno=F_15_01_02_22_01;
/* Standard - leave this */
%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str());

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

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%put &tflpath;
ods _all_ close;

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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 footery=1440 ;
ods exclude all;

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/****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,"UCMACRE4")>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;

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/****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,"UCEMACRE")>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);

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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 tfls.&tflno.;
  set data6;
run;

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

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;

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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=500 increment=50) viewmin=0 viewmax=500 TICKVALUEFITPOLICY=ROTATE
) label="24hr Urine Sample")
          yaxisopts=(linearopts=(tickvaluesequence=(start=0 end=500 increment=50) viewmin=0 viewmax=500 ) label="4hr Urine Sample")

          cycleattrs=false;

          drawtext textattrs=(style=italic size=10pt) "&rccoef" /
            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/RTF'\QL' Figure 15.1.2.22.1 Scatter Plot of Urinary CEMA Concentration Adjusted for Creatinine from 24 Hour Urine Collection v

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

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

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