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/*=====
| Covance Study Number      : 000000106331
| Program Name              : addt.sas
| Purpose                   : Create Adam Dataset (ADDT)
| Input Data                : adsl ,sdm.DS
| Output Data               : adam.adds
|
| Macros Called             :%m_printto , %m_logchk, %m_attrib_adam
|
| Originally Performed by :paddepalli
| Date                     : 17Mar2015
|=====
| Modification History : Original Version
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| Modified by           :
| Modification Date     :
| Modification Reason   :
|=====*/

* macro to save output and log to appropriate areas ;
proc datasets lib=work nolist memtype=data kill; quit;
libname sdm " /cvn/projects/prj/data/000000106343/datasets/sdm/sdmx";
%m_printto(route=YES);
options validvarname=upcase missing=' ';

*****;
* bring in ADSL ;
*****;

data adsl;
  set adam.adsl;
/* keep studyid usubjid subjid: siteid age sex: race height weightbl bmi*/
/*      ucpdgr1 ucpdgr1n */
/*      cobl enrfl scrfl exfl  enfl complfl fupfl saffl  nicogr1 nicogr1n targr1 targr1n fsaffl fasfl pprot1fl*/
/*      pprot2fl pprot3fl pprot4fl randfl  trtsdt trt01p trt01pn trt01a trt01an dthfl EXNOTRFL randdt; */
run;

*****;
* bring in DT ;
*****;

DATA DT;
  SET SDTM.DT(rename=(dtspid=dtspid_));
  length avisit $40 avisitn 8 /*dtspid $8*/;

  * dates;
  length dtstdtc1 $19.;
  dtstdtc1=dtstdtc;
  tm=input(scan(dtstdtc1,2,"T"),time5.);
/*  dt=input(substr(dtstdtc1,1,10),ymmdd10.);*/

  if length(dtstdtc) gt 11 /*and dt ne .*/ then
asdtm=dhms(input(substr(dtstdtc1,1,10),ymmdd10.),hour(tm),minute(tm),0);
/* if length(dtstdtc) gt 10 then asdtm = input(dtstdtc1,e8601dt.);*/
  else if length(dtstdtc) = 10 then asdtm = dhms(input(dtstdtc1, yymmdd10.),0,0,0);
  if not missing(asdtm) then asdt = datepart(asdtm);
  else if not missing(dtstdtc) and length(dtstdtc) = 10 then asdt = input(dtstdtc,ymmdd10.);
  * visit ;
  dtspid=dtspid_;
  avisit = upcase(visit);
  avisitn = visitnum;
  format asdtm datetime13. asdt date9.;
  KEEP  USUBJID SPDEVID dtspid dtseq dtterm dtdecod dtparty
        dtpartyid dtcat dtstdtc epoch asdtm asdt avisit avisitn ;
RUN;

proc sort data = dt;
  by usubjid;
run;
proc sort data=adsl;by usubjid;run;
*****;
* Combine ADSL and DT data *;
*****;

data sv1;
set sdm.sv;
where upcase(visit) ='DAY 6/DISCHARGE CONFINEMENT' ;
svstdtc_con= input(svstdtc,ymmdd10.);
format svstdtc_con date9.;

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keep usubjid svstdtc_con ;
run;
data sv2;*(where=(svstdtc_dis ne .));
set sdtm.sv;
where upcase(visit) ='DAY 91/DISCHARGE AMBULATORY' ;
svstdtc_dis= input(svstdtc,ymmdd10.);
format svstdtc_dis date9.;
keep usubjid svstdtc_dis;
run;
proc sort data=sv1 nodupkey ;by usubjid;run;
proc sort data=sv2 nodupkey ;by usubjid;run;
data sldt;
merge adsl dt(in=a) sv1 sv2 ;
by usubjid;
if a ;
length aperiod trtan trtpn astday asperc 8 trta trtp asperc $40 aperiodc $10;;

if not missing(astdt) and not missing(trtsdt) then astday = astdt - trtsdt + 1;
aperiod=1;
if not missing(aperiod) then do;
aperiodc = 'Period ' || put(aperiod, 1.);
end;
/* ASPERC DERivation:*/
if not missing(AVISITN) then do;
if AVISITN < 101 then ASPER=1;
else if 101< =AVISITN<=106 then ASPER=2;
else if 106< AVISITN<=191 then ASPER=3;
else if AVISITN >191 then ASPER=4;
end;
/* If .< ASTDT<= RANDDT then ASPERC= 'Pre-Randomization Period';*/
/* else if RANDDT < ASTDT =< SVSTDTC_con then ASPERC='Confinement Period';*/
/* else if SVSTDTC_con < ASTDT =< svstdtc_dis then ASPERC='Ambulatory Period'; */
/* else if ASTDT > SVSTDTC_dis then ASPERC='Follow-up Period';*/

if ASPER eq 1 then ASPERC='Pre-Randomization Period';
if ASPER eq 2 then ASPERC='Confinement Period' ;
if ASPER eq 3 then ASPERC= 'Ambulatory Period';
if ASPER eq 4 then ASPERC='Safety Follow-up Period' ;

if aperiod=1 then do;
TRTP= TRT01p;
TRTPN=trt01pn;
TRTA=trt01a;
trtan=trt01an;
end;
run;

*****;
* create output dataset ;
*****;
data addt;
set sldt;
run;
%m_logchk;

%m_attrb_adam(dset=ADDT);
proc sort data = addt out = adam.addt(label= 'Device Tracking and Disposition Analysis Dataset');
BY USUBJID DTCAT SPDEVID DTDECOD DTSTDTC AVISITN;
run;

*=====;
* END OF PROGRAM CODE ;
*=====;

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