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/*=====
Covance Study ID   : COV-000000106343
Program Name       : d_adDE.sas
Purpose            : Program to ADDE dataset
Author             : siva karnati
Date of Creation    : 23MAR2015
Input Data         : SDTM.DE,SDTM.SUPPDE,ADAM.ADSL
Output Data        : ADAM.ADDE
Macros Called      : m_printto,m_attrib_adam,m_logchk
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Modification History
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Modified by        :
Modification Date   :
Modification Description :

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%m_printto(route=YES);

/* SUPPDE */

PROC SORT DATA=SDTM.SUPPDE OUT=SUPPDE;BY USUBJID IDVARVAL;RUN;

PROC TRANSPOSE DATA=SUPPDE OUT=SUPPDE_(DROP=_:);
  BY USUBJID IDVARVAL;
  VAR QVAL;
  ID QNAM;
RUN;
/*DE DATA*/

DATA DE;
  SET SDTM.DE;
RUN;

PROC SQL;
  CREATE TABLE DE_ AS SELECT A.*,AEREL,NDSN FROM DE A, SUPPDE_ B WHERE A.USUBJID=B.USUBJID AND A.DESEQ=INPUT(B.IDVARVAL,2.);
QUIT;

DATA DE_1;
  SET DE_(RENAME=(AEREL=AEREL_ NDSN=NDSN_ ));
  FORMAT ASTDT AENDT DATE9. ASTDTM AENDTM DATETIME13. AEREL NDSN AENUM $11. AVISIT $40. ;
  LENGTH DESEVN AVISITN 8.;
  IF STRIP(DESEV)="MAJOR" THEN DESEVN=2 ;
  ELSE IF STRIP(DESEV)="MINOR" THEN DESEVN=1;
  AEREL=STRIP(AEREL_);
  AENUM="";
  NDSN=STRIP(NDSN_);
  AVISIT=STRIP(VISIT);
  AVISITN=VISITNUM;
  IF LENGTH(DESTDTC)>10 THEN ASTDTM=INPUT((DESTDTC||":00"),IS8601DT.);
  ELSE IF LENGTH(DESTDTC)=10 THEN ASTDTM=DHMS(INPUT(DESTDTC,YYMMDD10.),0,0,0);
  IF ASTDTM NE . THEN ASTDT=DATEPART(ASTDTM);
  IF LENGTH(DEENDTC)>10 THEN AENDTM=INPUT((DEENDTC||":00"),IS8601DT.);
  ELSE IF LENGTH(DEENDTC)=10 THEN AENDTM=DHMS(INPUT(DEENDTC,YYMMDD10.),0,0,0);
  IF AENDTM NE . THEN AENDT=DATEPART(AENDTM);

KEEP USUBJID DESEQ DESPID SPDEVID DETERM DEDECOD DECAT DESEV DESEVN DEACNDEV AEREL NDSN
  AENUM AVISIT AVISITN DESTDTC ASTDT ASTDTM AENDTM DESTDY DEENDTC AENDT DEENDY EPOCH ;

RUN;

/*ADSL DATA*/

DATA ADSL;
  SET ADAM.ADSL(WHERE=(DTESTDT NE .));
  KEEP STUDYID USUBJID SUBJID SUBJIDN SITEID AGE SEX SEXC SEXN RACE DTHFL HEIGHT WEIGHTBL
    BMI UCPDGR1 UCPDGR1N /*NICOGRI NICOGRI1N TARGR1 TARGR1N*/ ENRFL SCRFFL EXFL
    EXNOTRFL ENFL COMPLFL FUPFL /*SAFFL FSAFFL*/ SAFBFL SAFAFI FASFL PPROT1FL PPROT2FL PPROT3FL
    PPROT4FL RANDFL TRTSDTM TRTSTMF TRTSDT TRTSDAY TRTEDTM TRTETMF TRTEDT TRTEDAY
    TRT01P TRT01PN TRT01A TRT01AN RANDDT
  ;
RUN;
/*COMBINE ADSL DE DATA*/
PROC SORT DATA=ADSL; BY USUBJID ; RUN;
PROC SORT DATA=DE_1;BY USUBJID;RUN;

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DATA DE_2;
MERGE ADSL(IN=A) DE_1(IN=B);
  BY USUBJID;
FORMAT ANYDEFL $2. APERIODC $10. TRTP TRTA $40.;
LENGTH APERIOD ASTDAY AENDAY TRTPN TRTAN 8.;
  IF B THEN ANYDEFL="Y";
  ELSE ANYDEFL="N";
  IF NMISS(TRTSDT,ASTDT)=0 THEN DO;
    ASTDAY=ASTDT-TRTSDT+1;
  END;
  IF NMISS(TRTSDT,AENDT)=0 THEN DO;
    AENDAY=AENDT-TRTSDT+1;
  END;
  APERIOD=1;
  APERIODC="Period 1";
  TRTP=STRIP(TRT01P);
  TRTPN=TRT01PN;
  TRTA=STRIP(TRT01A);
  TRTAN=TRT01AN;

DROP TRT01:;

RUN;

/* GET SV DATES FOR VISITS 'DAY 6/DISCHARGE CONFINEMENT DAY 91/DISCHARGE AMBULATORY*/

DATA SV;
SET SDTM.SV;
FORMAT VISIT_ $10.SVSTDTC_ DATE9. ;
  WHERE VISIT IN ("DAY 6/DISCHARGE CONFINEMENT", "DAY 91/DISCHARGE AMBULATORY");
  VISIT_=STRIP(SCAN(VISIT,1,"/"));
  IF SVSTDTC NE "" THEN SVSTDTC_=INPUT(SVSTDTC,YYMMDD10.);
KEEP USUBJID VISIT SVSTDTC VISIT_ SVSTDTC_;
RUN;

PROC SORT DATA=SV ; BY USUBJID; RUN;

PROC TRANSPOSE DATA=SV OUT=SV1(DROP=_:);
  BY USUBJID;
  VAR SVSTDTC_;
  ID VISIT_;
RUN;

PROC FORMAT ;

VALUE $ASPR
  "Pre-Randomization Period" =1
  "Confinement Period"=2
  "Ambulatory Period"=3
  "Safety Follow-up Period"=4
;
RUN;

DATA ADDE;
MERGE DE_2(IN=A) SV1(IN=B);
  BY USUBJID;
FORMAT ASPERC $40.;
LENGTH ASPER 8.;
  IF A;
  if trtpn in (97 98) then do;
    asperc= 'Pre-Randomization Period';
  end;

  IF .<AVISITN <101 THEN ASPERC="Pre-Randomization Period";
  ELSE IF 101<=AVISITN<=106 THEN ASPERC="Confinement Period";
  ELSE IF 106<AVISITN<=191 THEN ASPERC="Ambulatory Period";
  ELSE IF AVISITN>191 THEN ASPERC="Safety Follow-up Period";
  ASPER=INPUT(PUT(ASPERC,$ASPR.),BEST.);
/* DROP DAY_6 DAY_91 RANDDT;*/
FORMAT AEREL AENUM NDSN ASPER ASPERC AVISIT APERIODC TRTP TRTA ;
RUN;

%m_attrib_adam(dset=ADDE);

PROC SORT DATA=ADDE OUT=ADAM.ADDE(LABEL="Device Events Analysis Dataset");
BY USUBJID DETERM DEDECOD DECAT DESTDTC DESPID;

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RUN;
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%m_logchk;
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proc compare base=adam.adde compare=qadam.qadde listall;  
run;
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