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options notes nosource;
proc datasets lib=work nolist memtype=data kill; quit;
* macro to save output and log to appropriate areas ;
%_mprintto;
%put NOTE:
=====;
%put NOTE: Covance Study Number : 000000106324;
%put NOTE: Client Protocol ID : ZRHR-REXC-03-EU;
%put NOTE: Program Name : d_2ADDT.sas;
%put NOTE: Purpose : create ADDT dataset;
%put NOTE: ;
%put NOTE: Input Data : STDLIB.ADDT SDTM.DI SDTM.DT ADAM.ADSL
SDTM.SUPPDT SDTM.DR;
%put NOTE: Output : ADAM.ADDT;
%put NOTE: Macros Called : _MPRINTTO;
%put NOTE: ;
%put NOTE: Programmed by : cvn_smulholl;
%put NOTE: Creation Date : 2013-09-27;
%put NOTE: SAS Version : 9.3;
%put NOTE: ;
%put NOTE: == Latest Run
=====;
%put NOTE: Run by : &sysuserid;
%put NOTE: Date/Time :
%sysfunc(putn(%sysfunc(date()),e8601da.))T%sysfunc(putn(%sysfunc(time()),
e86011z.));
%put NOTE: ;
%put NOTE: == Modification History
=====;
%put NOTE: Date Initials No. Reason;
%put NOTE: 02Dec2013 SM 1) Remove VISITx variables;
%put NOTE: 05May2014 KB 2) Amended sorting by key variables;
%put NOTE: 05May2014 KB 3) Added EPOCH to keep statement;
%put NOTE: 27May2014 KB 4) Amended issue with duplications;
%put NOTE: 27Jul2014 KB 5) Added EXNOTRFL;
%put NOTE: 12Sep2014 KB 6) Added FASFL & PPROTFL to ADSL keep;
%put NOTE:
=====;
options notes source source2 nofullstimer validvarname=upcase missing='
';
ods _all_ close;
ods listing;

*=====;
* START OF PROGRAM CODE ;
*=====;
*****;
* bring in ADSL ;
*****;

data adsl;
    set adam.adsl;
    keep studyid usubjid subjid: siteid age sex: race height weightb1
bmi ucpdgr: nicogr: targr: cobl

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enrlfl scrfl exfl EXNOTRFL enfl complfl fupfl saffl randfl
tr01: trt01: dthfl trtsdt FASFL PPROTFL; /* 5) KB 27Jul2014 */ /* 6) KB
12Sep2014 */
run;

*****;
* bring in SUPPDT ;
*****;
/* no data available yet */

*****;
* combine DR and DI ;
*****;

proc sort data = sdtm.dr out = dr;
    by spdevid;
run;

data drdi;
    /*merge*/SET dr(keep = usubjid spdevid) /*sdtm.di(keep = spdevid
diparmcd diparm dival)*/; /* 4) KB 27May2014 */
    by spdevid;
run;

proc sort data = drdi;
    by spdevid;
run;

*****;
* combine DT and DR ;
*****;
proc sort data = sdtm.dt out = dt;
    by spdevid;
run;

data dt2;
    merge dt drdi;
    by spdevid;

    format astdtm datetime13. astdt date9. avisit $200. avisitn 8.;
    * dates;
    if length(dtstdtc) gt 10 then astdtm =
input(scan(dtstdtc,1,'T'),ymmdd10.)*86400+input(scan(dtstdtc,2,'T'),time
5.);
    if not missing(astdtm) then astdt = datepart(astdtm);
    else if not missing(dtstdtc) then astdt = input(dtstdtc,ymmdd10.);

    * visit ;
    avisit = propcase(visit);
    avisitn = visitnum;

    keep usubjid dtseq dtspid spdevid dtterm dtdecod dtparty dtprtyid
dtcat dtstdtc visit visitnum visitdy avisit: astd: EPOCH; /* 3) KB
05May2014 */

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run;

proc sort data=dt2;
    by usubjid;
run;
*****;
* Combine ADSL and DT data *;
*****;
* find number of periods ;
*_mtotper;

data sldt(drop = trtsdt trt01: tr01: VISIT:); /* 1) SM 02Dec2013 */
    merge adsl dt2(in = a);
    by usubjid;
    if a;          * only include subjects with DE data ;
    format aperiod trtan trtpn astday 8. trta trtp $40. aperiodc $10.;
    if not missing(astdt) and not missing(trtsdt) then astday = astdt -
trtsdt + 1;
    *allocate period using stated full and partial dates ;
    *_mperall(dvar1 = asdtm, dvar2 = astdt);
    aperiodc = 'Period ' || put(aperiod, 1.);
run;

*****;
* create output dataset ;
*****;

options replace;

data addt;
    set stdlib.addt sldt;
    label aperiodc = 'Period (C)';
run;

proc sort data = addt out = adam.addt(label= 'Device Tracking and
Disposition Analysis Dataset');
/*    by usubjid dtcat spdevid avisitn;*/
    BY USUBJID DTCAT SPDEVID DTDECOD DTSTDTC AVISITN; /* 2) KB 05May2014
*/
run;

options noreplace;
proc printto; run;
*=====;
* END OF PROGRAM CODE ;
*=====;

```