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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_2ADSV.sas;
%put NOTE: Purpose : create ADSV dataset;
%put NOTE: ;
%put NOTE: Input Data : STDLIB.ADSV SDTM.SV;
%put NOTE: Output : ADAM.ADSV;
%put NOTE: Macros Called : _MPRINTTO;
%put NOTE: ;
%put NOTE: Programmed by : cvn_smulholl;
%put NOTE: Creation Date : 2013-10-18;
%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: 30Apr2014 KB 2) Added EPOCH to keep statement;
%put NOTE: 30Apr2014 KB 3) Amended format of AVISITN and
VIDONEFL;
%put NOTE: 30Apr2014 KB 4) Added ICF01DTC and ICF01DT to keep
statement;
%put NOTE: 27Jul2014 KB 5) Added EXNOTRFL;
%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 ucpdgr1 ucpdgrln nicogr1 nicogrln targr1 targrln cobl

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```

        enrfl scrfl complfl saffl fasfl pprotfl randfl trt: tr01:
trtsdt dthfl /*icfdtc*/ icfdt icf02dtc icf02dt
        fupfl enfl EXNOTRFL exfl ICF01DTC ICF01DT; /* 4) KB
30Apr2014 */ /* 5) KB 27Jul2014 */
run;

*****;
* bring in SV ;
*****;

data sv;
    set sdtm.sv;
    format astdt aendt date9. vidonefl /*$2.*/$8. avisit $40. avisitn
/*8.*/BEST.; /* 3) KB 30Apr2014 */
    astdt = input(svstdtc, yymmdd10.);
    aendt = input(svendtc, yymmdd10.);
    if not missing(svstdtc) then vidonefl = 'Y';
    else if missing(svstdtc) then vidonefl = 'N';
    avisit = propcase(visit);
    avisitn = visitnum;
    keep usubjid svstdtc svstdy astdt svendtc svendy svupdes aendt
vidonefl visit: avisit: EPOCH; /* 2) KB 30Apr2014 */
run;

*****;
* Combine ADSL and data *;
*****;

/* macro to allocate period and actual treatment information from ADSL */
%_mtotper;

data slsv(drop = trt01: tr01: astdtm VISIT:); /* 1) SM 02Dec2013 */
    merge adsl sv(in = a);
    by usubjid;
    if a;          * only include subjects with SV data ;
    format aperiod trtan trtpn astday aenday 8. trta trtp $40. aperiodc
$10.;
    astday = astdt - trtsdt + 1;
    aenday = aendt - trtsdt + 1;
    astdtm = .;    * for macro below to work ;
    * declare full and partial dates for deriving period;
    %_mperall(dvar1 = astdtm, dvar2 = astdt);

    aperiodc = 'Period ' || put(aperiod,1.);

run;

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

options replace;

```

```
data adsv;
    set stdlib.adsv slsv;
run;

proc sort data = adsv out = adam.adsv(label= 'Visit Incidence Analysis
Dataset');
    by usubjid avisitn;
run;

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