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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 : 000000106326;
%put NOTE: Client Protocol ID : ZRHM-PK-05-JP;
%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 _MTOTPER _PERALL _SCRAMBLE;
%put NOTE: ;
%put NOTE: Programmed by : cvn_jriley;
%put NOTE: Creation Date : 2014-01-03;
%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: 13Apr2014 KB 1) Amended format of VIDOENFL and
AVISITN;
%put NOTE: 13Apr2014 KB 2) Added TRTSTMF to scramble macro;
%put NOTE: 06Aug2014 KB 3) Added EXNOTRFL and NICOGR2 to 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 ucpdgr1 ucpdgrln nicogr1 nicogrln NICOGR2 NICOGR2N targr1 targrln /*
3) KB 06Aug2014 */
    enrfl scrffl complfl saffl pproftl randfl trt: tr01: tr02:
trtsdt dthfl /*icfdtc*/ICFDTM icfdt

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                fupfl enfl exfl anal: EXNOTRFL; /* 3) KB 06Aug2014 */
run;

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

data sv;
    set sdtm.sv;
    format astdt aendt svstdt svedt date9. vidonefl /*$2.*/$8. avisit
$40. avisitn /*8.*/BEST.; /* 1) KB 13Apr2014 */
    svstdt=input(svstdtc, yymmdd10.);
    svedt=input(svendtc, yymmdd10.);
    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 svstdt svstdy astdt svendtc svedt svendy
svupdes aendt vidonefl visit: avisit: epoch;
run;

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

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

data slsv(drop = trt01: tr01: trt02: tr02: astdtm visit:);
    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
$8.;
    astday = astdt - trtsdt + 1;
    aenday = aendt - trtsdt + 1;
    astdtm = .;    * for macro below to work ;
    * declare full and partial dates for deriving period;
    if astday in (0 1) then aperiod=1;
    else if astday in (2 3) then aperiod=2;
    %_mperall(dvar1 = astdtm, dvar2 = astdt);

    if not missing(aperiod) then do;
        aperiodc = 'Period ' || put(aperiod,1.);
    end;

run;

*****;
* create output dataset ;

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*****;

options replace;

data advs;
    set stdlib.adsv slsv;
run;

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

options noreplace;

%_scramble(set=adsv, id=USUBJID SUBJID SUBJIDN age sex sexc sexn race
dthfl height weightbl bmi ucpdgr1 ucpdgrln nicogr1
        nicogrln targr1 targrln analgr1 analgrln, dates=trtsdtm
trtsdt trtsday trtedtm trtedt trteday,
        nullc=trtp trta trtsepp trtsega TRTSTMF, nulln=trtpn
trtan trtseppn trtsega, nullcc=/*4*/5, nullnc=4); /* 2) KB 13Apr2014 */

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

```