

```

/*=====
Covance Study ID          : COV-000000106331
Program Name              : d_adfa.sas
Purpose                   : Program to ADFA dataset
Author                    : siva karnati
Date of Creation          : 24MAR2015
Input Data                : SDTM.FA,SDTM.SUPPFA , SDTM.SV,ADAM.ADSL
Output Data               : ADAM.ADFA
Macros Called             : m_printto,m_attrib_adam,m_logchk
=====

Modification History

=====

Modified by              :
Modification Date        :
Modification Description :

=====*/

%m_printto(route=YES);

libname adam "&base2/datasets/adam/cleaned_adam";

libname sdtm "/cvn/projects/prj/data/000000106331/datasets/sdtm/sdtmx";

/* ADSL DATA*/

DATA ADSL;

    SET ADAM.ADSL;

```

```
KEEP STUDYID USUBJID SUBJID SUBJIDN SITEID AGE SEX SEXC SEXN RACE DTHFL HEIGHT
WEIGHTBL

BMI UCPDGR1 UCPDGR1N NICOGR1 NICOGR1N TARGR1 TARGR1N ENRLFL SCRFFL EXFL

EXNOTRFL ENFL COMPLFL FUPFL /*SAFFL FSAFFL*/FSAFBFL FSAFAFL SAFBFL SAFAFL
FASFL PPROT1FL PPROT2FL PPROT3FL

PPROT4FL RANDFL TRTSDTM TRTSTMF TRTSDT TRTSDAY TRTEDTM TRTETMF TRTEDT
TRTEDAY

TRT01P TRT01PN TRT01A TRT01AN

;
```

```
RUN;
```

```
/*FA DATA*/
```

```
PROC SORT DATA=SDTM.FA OUT=FA1; BY USUBJID ;RUN;
```

```
PROC SORT DATA=SDTM.SUPPFA OUT=SUPPFA ;BY USUBJID;WHERE QNAM="BRAND";RUN;
```

```
PROC SQL;
```

```
CREATE TABLE FA AS SELECT A.*,B.QVAL AS BRAND_ FROM FA1 A LEFT JOIN SUPPFA B ON
A.USUBJID=B.USUBJID AND A.FASEQ=INPUT(B.IDVARVAL,BEST.);
```

```
QUIT;
```

```
DATA FA_1;
```

```
SET FA(RENAME=(FAOBJ=FAOBJ_));
```

```
FORMAT BRAND $39. PARAMCD $8. PARAM AVALC $200. PARCAT1 PARCAT2 $60. AVALU $20.
AVALCAT1 AVISIT $40.;
```

```
length FAOBJ $38. ;
```

```
FORMAT PARAMN AVALCAT1N 8.;
```

```

LENGTH AVAL AVISITN 8.;

FAOBJ=STRIP(FAOBJ_);

BRAND=STRIP(BRAND_);

/* TYIELD*/

IF FATESTCD="TYIELD" THEN DO;

    PARAMCD=STRIP(FATESTCD);

    PARAM="ISO Tar Yield";

    PARAMN=1;

    AVAL=FASTRESN;

    AVALC=STRIP(FASTRESC);

    IF 1<=FASTRESN<=5 THEN DO ;

        AVALCAT1N = 1;

        AVALCAT1="1 - 5 mg";

    END;

    ELSE IF 6<=FASTRESN<=8 THEN DO;

        AVALCAT1N = 2;

        AVALCAT1="6 - 8 mg";

    END;

    ELSE IF 9<=FASTRESN<=10 THEN DO;

        AVALCAT1N = 3;

        AVALCAT1="9 - 10 mg";

    END;

    ELSE IF FASTRESN>10 THEN DO;

```

```

                                AVALCAT1N = 4;
                                AVALCAT1="> 10 mg";
                                END;
                                END;
/*NYIELD*/

```

```

IF FATESTCD="NYIELD" THEN DO;
    PARAMCD=STRIP(FATESTCD);
    PARAM="ISO Nicotine Yield";
    PARAMN=2;
    AVAL=FASTRESN;
    AVALC=STRIP(FASTRESC);
IF .<FASTRESN<=0.6 THEN DO;
    AVALCAT1N = 1;
    AVALCAT1="â‰¤ 0.6 mg";
    END;
    ELSE IF FASTRESN>0.6 THEN DO;
        AVALCAT1N = 2;
        AVALCAT1=">0.6 mg";
        END;
    END;
/* QUIT*/

```

```

IF FATESTCD="QUIT" THEN DO;
    PARAMCD=STRIP(FATESTCD);

```

```
PARAM="Does the subject plan to quit smoking during the next 3 months?";
```

```
PARAMN=4;
```

```
IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;
```

```
ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;
```

```
AVALC=STRIP(FASTRESC);
```

```
END;
```

```
/*CONYR3*/
```

```
IF FATESTCD="CONYR3" THEN DO;
```

```
PARAMCD=STRIP(FATESTCD);
```

```
PARAM="Did the subject smoke for at least 3 consecutive years?";
```

```
PARAMN=5;
```

```
IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;
```

```
ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;
```

```
AVALC=STRIP(FASTRESC);
```

```
END;
```

```
/*SMOKHIST          */
```

```
IF FATESTCD="SMOKHIST" THEN DO;
```

```
PARAMCD=STRIP(FATESTCD);
```

```
PARAM="How many cigarettes per day has the subject smoked on average during the  
last 4 weeks?";
```

```
PARAMN=6;
```

```
AVALC=STRIP(FASTRESC);
```

```
IF AVALC='<10' THEN AVAL=3;
```

```
ELSE IF AVALC='10 TO 19' THEN AVAL=4;

ELSE IF AVALC='>19' THEN AVAL=5;

END;
```

```
/*WKMENT4 */
```

```
IF FATESTCD="WKMENT4" THEN DO;

    PARAMCD=STRIP(FATESTCD);

    PARAM="Did the subject smoke menthol cigarettes in the last 4 weeks?";

    PARAMN=7;

    IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;

        ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;

    AVALC=STRIP(FASTRESC);

END;
```

```
/* NICOTH */
```

```
IF FATESTCD="NICOTH" THEN DO;

    PARAMCD=STRIP(FATESTCD);

    PARAM="The subject has used nicotine-containing products other than commercially
available CC, electronic cigarettes and similar devices, within 4 weeks prior to assessment.";

    PARAMN=8;

    IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;

        ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;

    AVALC=STRIP(FASTRESC);
```

END;

IF FATESTCD="PERFORM" THEN DO;

PARAMCD=STRIP(FATESTCD);

PARAM="Was the THS 2.2 product trial performed?";

PARAMN=9;

IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;

ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;

AVALC=STRIP(FASTRESC);

END;

/* WILLABL */

IF FATESTCD="WILLABL" THEN DO;

PARAMCD=STRIP(FATESTCD);

PARAM="Is the subject willing and able to use the THS product during the study?" ;

PARAMN=10;

IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;

ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;

AVALC=STRIP(FASTRESC);

END;

IF FATESTCD="NUMSTIC" THEN DO;

PARAMCD=STRIP(FATESTCD);

PARAM="How many THS 2.2 tobacco sticks used";

```
PARAMN=16;  
  
AVAL=FASTRESN;  
  
AVALC=STRIP(FASTRESC);  
  
END;
```

```
PARCAT1=STRIP(FACAT);  
  
IF FASCAT NE "" THEN PARCAT2=STRIP(FASCAT);  
  
ELSE PARCAT2=STRIP(FAOBJ);  
  
AVISIT=PROPCASE(VISIT);  
  
AVISITN=VISITNUM;  
  
AVALU=STRIP(FASTRESU);  
  
KEEP USUBJID FASEQ FAOBJ FASTAT FAREASND FADTC FADY EPOCH BRAND PARAMCD PARAM VISIT  
  
AVALU AVALC PARCAT1 PARCAT2 AVALCAT1 AVISIT PARAMN AVAL AVALCAT1N  
AVISITN;  
  
RUN;
```

```
PROC SORT DATA=FA_1;BY USUBJID VISIT; RUN;  
  
PROC SORT DATA=SDTM.SV OUT=SV(KEEP=USUBJID SVSTDTC VISIT); BY USUBJID VISIT ;RUN;  
  
DATA FA_2;  
  
MERGE FA_1(IN=A) SV;  
  
BY USUBJID VISIT;  
  
IF A;  
  
FORMAT ADT DATE9.;  
  
IF FADTC NE "" THEN ADT=INPUT(FADTC,YYMMDD10.);
```



```
ELSE IF FADTC EQ "" AND FASTAT NE "NOT DONE" THEN  
ADT=INPUT(SVSTDTC,YYMMDD10.);
```

```
DROP SVSTDTC VISIT;
```

```
RUN;
```

```
PROC SORT DATA=ADSL; BY USUBJID;RUN;
```

```
DATA ADFA(rename=(avalcat1n=avalct1n));
```

```
MERGE FA_2(IN=A) ADSL;
```

```
BY USUBJID;
```

```
IF A;
```

```
FORMAT APERIODC $10. APERIOD ADAY TRTPN TRTAN 8. TRTP TRTA $40.;
```

```
IF NMISS(ADT,TRTSDT)=0 THEN DO;
```

```
ADAY=ADT-TRTSDT+1;
```

```
END;
```

```
APERIOD=1;
```

```
APERIODC="Period 1";
```

```
TRTP=STRIP(TRT01P);
```

```
TRTPN=TRT01PN;
```

```
TRTA=STRIP(TRT01A);
```

```
TRTAN=TRT01AN;
```

```
DROP TRT01.;
```

```
RUN;
```

```
%m_attrib_adam(dset=ADFA);
```

```
PROC SORT DATA=ADFA
```

```
OUT=ADAM.ADFA(LABEL="Findings About Events or Interventions Analysis Dataset");
```

```
BY USUBJID AVISITN PARAMCD;
```

```
RUN;
```

```
proc compare base=adam.adfa compare=qadam.qadfa listall;
```

```
run;
```

```
%M_LOGCHK;
```