2003

Behavioral Risk Factor Surveillance System

Calculated Variables

(Version 13 – Revised 09/01/2005)

Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File

INTRODUCTION:

This document provides information on calculated variables and risk factors for the 2003 Behavioral Risk Factor Surveillance System. These variables are calculated from responses to questions in the survey. There are three types of calculated variables.

The first are those variables used to stratify and weight the data. These variables are not included in this document and include:
AGEG, _FINALWT, _IMPAGE, _IMPNPH, _MSACODE, _POSTSTR, _RACEG3_, _RAW, _REGION, _SEXG_, _STSTR, _STRWT, and _WT2.

The second are intermediate variables. These are variables are derived from a question response and are used to calculate some other variable or risk factor. For example: WTKG is derived from the WEIGHT variable in the survey. WTKG is then used to calculate the body mass index variable (_BMI2). Most of the intermediate variables end with an underscore (Example: FTJUDAY_), but not all of them do.

The third type of calculated variables are those used to categorize or classify respondents. Most of these begin with an underscore. (Example: _BMI2.) Exceptions are: _DENSTR2, _GEOSTR, and _STATE, which are determined before the interview. Some of the calculated variables group continuous variables such as weight, age, or body mass index, into categories. Other calculated variables create "Risk Factors". The "Risk Factors" group respondents into two categories, "At Risk" or "Not At Risk" based on their responses. The "At Risk" group has health behaviors that are associated with an increased risk for illness or injury.

The tables in this report include a description of what the responses mean and a copy of the code used to calculate these variables in SAS®. The syntax of the code, as given, may or may not work in the particular statistical program that you are using.

NEW CALCULATED VARIABLES FOR 2003:

These intermediate variables used to calculate other calculated variables and risk factors were not included with the data set in previous years:
MODCAT_, **VIGCAT_**, **PACAT_**.
New risk factors for 2003 are **_RFHLTH**, **_FV5SRV**, **_CHLDCNT**, **_EDCUAG**, **_INCOMG**.

CALCULATED VARIABLES WITH CHANGED NAMES FOR 2003:

_RFHYPE4 changed from **_RFHYPE3** due to BPHIGH2 changing to BPHIGH3.
HTIN2 changed from **HTIN** due to changes in the length (up to three digits) and "Don't know/Refused" equal to 999 (was equal to 99 in 2002).
HTM2 changed from **HTM** due to **HTIN** changing to **HTIN2**.
_BMI3 changed from **_BMI2** due to **HTM** changing to **HTM2**.
_BMI3CAT changed from **_BMI2CAT** due to **_BMI2** changing to **_BMI3**.
_RFBMI3 changed from **_RFBMI2** due to **_BMI2** changing to **_BMI3**.

Section 1: Health Status

_RFHLTH *(New variable in 2003.)* — *Risk Factor: Fair or Poor general health.* _RFHLTH is derived from GENHLTH.

1	Not At Risk	Respondents report having excellent, very good or good health (GENHLTH =1, 2, 3)
2	At Risk	Respondents who report having fair or poor health (GENHLTH =4, 5)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who report they don't know their general health status, those who refused to answer the general health question, and those with missing responses (GENHLTH =7, 9, Missing)

SAS code:

```
IF 4 LE GENHLTH LE 5 THEN _RFHLTH=2;
ELSE IF 1 LE GENHLTH LE 3 THEN _RFHLTH=1;
ELSE _RFHLTH=9;
```

Section 2: Health Care Access

There are no calculated variables for Section 2.

Section 3: Exercise

_TOTINDA — *Risk Factor: No leisure time physical activity or exercise during the past 30 days other than the respondent's regular job.* _TOTINDA is derived from EXERANY2. (Meets Healthy People 2010 Objective #22-1: No Leisure-Time Physical Activity)

1	Not At Risk	Respondents who report any level of physical activity or exercise (EXERANY2=1)
2	At Risk	Respondents report no physical activity or exercise (EXERANY2=2)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who report they don't know if they have participated in any physical activity or exercise during the past 30 days, those who refused to answer the physical activity/exercise question, and those with missing responses (EXERANY2=7, 9, Missing)

SAS code:

```
IF EXERANY2 IN (1) THEN _TOTINDA=1;
ELSE IF EXERANY2 IN (2) THEN _TOTINDA=2;
ELSE IF EXERANY2 IN (.,7,9) THEN _TOTINDA=9;
```

Section 4: Diabetes

There are no calculated variables for Section 4.

Section 5: Hypertension Awareness

_RFHYPE4 *(Name changed for 2003.)* — *Risk Factor: Respondents that have been told by a doctor, nurse or other health professional that they have high blood pressure.* _RFHYPE4 is derived from BPHIGH3. (Meets Healthy People 2010 Objective #12-9: Reduce the proportion of adults with high blood pressure.) (Note: the name was changed from _RFHYPE3 in 2001 due to BPHIGH2 changing to BPHIGH3.)

1	Not At Risk	Respondents who were not told their pressure is high by a health professional (BPHIGH3=2).
2	At Risk	Respondents who were told their pressure is high by a health professional (BPHIGH3=1).
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who report they don't know if they were told if their blood pressure is high, those who refused to answer if they were told if their blood pressure is high, and those with missing responses (BPHIGH3=7,9, Missing).

SAS code:

```
     IF BPHIGH3=1 THEN _RFHYPE4=2;
ELSE IF BPHIGH3=2 THEN _RFHYPE4=1;
ELSE IF BPHIGH3=3 THEN _RFHYPE4=1;
ELSE IF BPHIGH3 IN (.,7,9) THEN _RFHYPE4=9 ;
```

Section 6: Cholesterol Awareness

_CHOLCHK — *Respondents that had their blood cholesterol checked within the past year.* _CHOLCHK is derived from BLOODCHO and CHOLCHK. (Meets Healthy People 2010 Objective #12-15: Increase the proportion of adults who have had their blood cholesterol checked within the preceding 5 years.)

1	Checked	Respondents who report having had their cholesterol checked within the past five years (BLOODCHO=1 and CHOLCHK=1,2,3).
2	Not Checked	Respondents who report not having had their cholesterol checked within the past five years (BLOODCHO=1 and CHOLCHK=4).
3	Never Checked	Respondents who report never having had their cholesterol checked (BLOODCHO=2).
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who report they don't know if they had their cholesterol checked by a health professional, those who refused to answer if they had their cholesterol checked by a health professional, and those with missing responses (BLOODCHO=7,9," " and CHOLCHK=7,9," ").

SAS code:

```
     IF (BLOODCHO = 1) AND (1 LE CHOLCHK LE 3) THEN _CHOLCHK
     = 1;
ELSE IF (BLOODCHO=1) AND (CHOLCHK=4) THEN _CHOLCHK = 2;
ELSE IF (BLOODCHO=2) THEN _CHOLCHK = 3;
ELSE IF BLOODCHO IN (.,7,9) OR CHOLCHK IN (.,7,9) THEN
     _CHOLCHK = 9 ;
```

Section 6: Cholesterol Awareness (continued)

_RFCHOL *Risk Factor: Respondents that have had their blood cholesterol checked and were told it was high.* _RFCHOL is derived from BLOODCHO and TOLDHI2. (Meets Healthy People 2010 Objective #12-14: Reduce the proportion of adults with high total blood cholesterol levels.)

1	Not At Risk	Respondents who had their blood cholesterol checked but had not been told it was high (BLOODCHO=1 and TOLDHI2=2).
2	At Risk	Respondents who had their blood cholesterol checked and had been told that they have high blood cholesterol (BLOODCHO=1 and TOLDHI2=1).
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who report they don't know if they had their blood cholesterol checked, those that report they don't know if they have been told their blood cholesterol was high, those who refused to answer if they had their blood cholesterol checked, those who refused to answer if they had been told that their blood cholesterol was high, and those with missing responses (BLOODCHO=7,9,"." or TOLDHI2=7,9,".").
.	Missing	Respondents who report they have not had their blood cholesterol checked (BLOODCHO=2).

```
     IF BLOODCHO=1 AND TOLDHI2=1 THEN _RFCHOL=2;
ELSE IF BLOODCHO=1 AND TOLDHI2=2 THEN _RFCHOL=1;
ELSE IF BLOODCHO=1 AND TOLDHI2 IN (.,7,9) THEN _RFCHOL=9;
ELSE _RFCHOL=.;
```

Section 7: Fruits And Vegetables

FTJUDAY_ *Fruit juice times per day*. FTJUDAY_ converts the FRUITJUI variable to a "per day" response. (Note: FTJUDAY_ gets multiplied by 10 after _FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99	Don't Know/ Not Sure/ Refused/ Missing	Respondents who report they don't know the number times they consumed fruit juice per day, those who refused to answer, and those with missing responses (FRUITJUI=777,999,".").

SAS code:

```
     IF 100 < FRUITJUI < 200 THEN FTJUDAY_=(FRUITJUI-100);
ELSE IF 200 < FRUITJUI < 300 THEN FTJUDAY_=(FRUITJUI-200)/7;
ELSE IF 300 < FRUITJUI < 400 THEN FTJUDAY_=(FRUITJUI-300)/30;
ELSE IF 400 < FRUITJUI < 500 THEN FTJUDAY_=(FRUITJUI-
400)/365;
ELSE IF FRUITJUI=555 THEN FTJUDAY_=0;
ELSE IF FRUITJUI IN (.,777,999) THEN FTJUDAY_=99;
FTJUDAY_=round((FTJUDAY_*10),1); *This is done after all of
the fruits and vegetable calculations but the code is
included here;
```

Section 7: Fruits And Vegetables (continued)

FRUTDAY_ *Fruit times per day*. FRUTDAY_ converts the FRUIT variable to a per day response. (Note: FRUTDAY_ gets multiplied by 10 after _FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99 Don't Know/ Not Sure/ Refused/ Missing — Respondents who report they don't know the number times they consumed fruit per day, those who refused to answer, and those with missing responses (FRUIT=777,999,"."). **SAS code:**

```
     IF 100 < FRUIT < 200 THEN FRUTDAY_=(FRUIT-100);
ELSE IF 200 < FRUIT < 300 THEN FRUTDAY_=(FRUIT-200)/7;
ELSE IF 300 < FRUIT < 400 THEN FRUTDAY_=(FRUIT-300)/30;
ELSE IF 400 < FRUIT < 500 THEN FRUTDAY_=(FRUIT-400)/365;
ELSE IF FRUIT=555 THEN FRUTDAY_=0;
ELSE IF FRUIT IN (.,777,999) THEN FRUTDAY_=99;
FRUTDAY_=round((FRUTDAY_*10),1); *This is done after all of
the fruits and vegetable calculations but the code is
included here;
```

GNSLDAY_ *Green salad times per day.* GNSLDAY_ converts the GREENSAL variable to a per day response. (Note: GNSLDAY_ gets multiplied by 10 after _FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99 Don't Know/ Not Sure/ Refused/ Missing — Respondents who report they don't know the number times they consumed green salad per day, those who refused to answer, and those with missing responses (GREENSAL=777,999,"."). **SAS code:**

```
     IF 100 < GREENSAL < 200 THEN GNSLDAY_=(GREENSAL-100);
ELSE IF 200 < GREENSAL < 300 THEN GNSLDAY_=(GREENSAL-200)/7;
ELSE IF 300 < GREENSAL < 400 THEN GNSLDAY_=(GREENSAL-300)/30;
ELSE IF 400 < GREENSAL < 500 THEN GNSLDAY_=(GREENSAL-
400)/365;
ELSE IF GREENSAL=555 THEN GNSLDAY_=0;
ELSE IF GREENSAL IN (.,777,999) THEN GNSLDAY_=99;
GNSLDAY_=round((GNSLDAY_*10),1); *This is done after all of
the fruits and vegetable calculations but the code is
included here;
```

Section 7: Fruits And Vegetables (continued)

POTADAY_ *Potato times per day.* POTADAY_ converts the POTATOES variable to a per day response. (Note: POTADAY_ gets multiplied by 10 after _FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99 Don't Know/ Not Sure/ Refused/ Missing — Respondents who report they don't know the number times they consumed potatoes per day, those who refused to answer, and those with missing responses (POTATOES=777,999,"."). **SAS code:**

```
     IF 100 < POTATOES < 200 THEN POTADAY_=(POTATOES-100);
ELSE IF 200 < POTATOES < 300 THEN POTADAY_=(POTATOES-200)/7;
ELSE IF 300 < POTATOES < 400 THEN POTADAY_=(POTATOES-300)/30;
ELSE IF 400 < POTATOES < 500 THEN POTADAY_=(POTATOES-
400)/365;
ELSE IF POTATOES=555 THEN POTADAY_=0;
ELSE IF POTATOES IN (.,777,999) THEN POTADAY_=99;
POTADAY_=round((POTADAY_*10),1); *This is done after all of
the fruits and vegetable calculations but the code is
included here;
```

CRTSDAY_ *Carrot times per day.* CRTSDAY_ converts the CARROTS variable to a per day response. (Note: CRTSDAY_ gets multiplied by 10 after _FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99 Don't Know/ Not Sure/ Refused/ Missing — Respondents who report they don't know the number times they consumed carrots per day, those who refused to answer, and those with missing responses (CARROTS=777,999,"."). **SAS code:**

```
     IF 100 < CARROTS < 200 THEN CRTSDAY_=(CARROTS-100);
ELSE IF 200 < CARROTS < 300 THEN CRTSDAY_=(CARROTS-200)/7;
ELSE IF 300 < CARROTS < 400 THEN CRTSDAY_=(CARROTS-300)/30;
ELSE IF 400 < CARROTS < 500 THEN CRTSDAY_=(CARROTS-400)/365;
ELSE IF CARROTS=555 THEN CRTSDAY_=0;
ELSE IF CARROTS IN (.,777,999) THEN CRTSDAY_=99;
CRTSDAY_=round((CRTSDAY_*10),1); *This is done after all of
the fruits and vegetable calculations but the code is
included here;
```

Section 7: Fruits And Vegetables (continued)

VEGEDAY_ *Vegetable Servings per day.* VEGEDAY_ converts the VEGETABL variable to a per day response. (Note: VEGEDAY_ gets multiplied by 10 after _FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99	Don't Know/ Not Sure/ Refused/ Missing	Respondents who report they don't know the quantity of vegetable servings consumed per day, those who refused to answer, and those with missing responses (VEGETABL=777,999,".").

SAS code:

```
     IF 100 < VEGETABL < 200 THEN VEGEDAY_=(VEGETABL-100);
ELSE IF 200 < VEGETABL < 300 THEN VEGEDAY_=(VEGETABL-200)/7;
ELSE IF 300 < VEGETABL < 400 THEN VEGEDAY_=(VEGETABL-300)/30;
ELSE IF 400 < VEGETABL < 500 THEN VEGEDAY_=(VEGETABL-
400)/365;
ELSE IF VEGETABL=555 THEN VEGEDAY_=0;
ELSE IF VEGETABL IN (.,777,999) THEN VEGEDAY_=99;
VEGEDAY_=round((VEGEDAY_*10),1); *This is done after all of
the fruits and vegetable calculations but the code is
included here;
```

_ FRTSERV *Times fruit & vegetable consumed per day.* _ FRTSERV is derived from the per day variables (FTJUDAY_, FRUTDAY_, GNSLDAY_, POTADAY_, CRTSDAY_, and VEGEDAY_). Values for "Don't know/Refused/Missing" (99) are excluded from the sum. (Note: _FRTSERV gets multiplied by 100 after _FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 999.99 will be 99999 in the final data set.)

999.99	Don't Know/ Not Sure/ Refused/ Missing	Respondents with a 99 values for all six fruits and vegetable per day variables.

SAS code:

```
IF FTJUDAY_ NOTIN (99) THEN FTJUDAY=FTJUDAY_;
      ELSE FTJUDAY=.;
IF FRUTDAY_ NOTIN (99) THEN FRUTDAY=FRUTDAY_;
      ELSE FRUTDAY=.;
IF GNSLDAY_ NOTIN (99) THEN GNSLDAY=GNSLDAY_;
      ELSE GNSLDAY=.;
IF POTADAY_ NOTIN (99) THEN POTADAY=POTADAY_;
      ELSE POTADAY=.;
IF CRTSDAY_ NOTIN (99) THEN CRTSDAY=CRTSDAY_;
      ELSE CRTSDAY=.;
IF VEGEDAY_ NOTIN (99) THEN VEGEDAY=VEGEDAY_;
      ELSE VEGEDAY=.;
IF FTJUDAY_=99 AND FRUTDAY_=99 AND GNSLDAY_=99 AND
      POTADAY_=99 AND CRTSDAY_=99 AND VEGEDAY_=99 THEN
      FRTSERV =999.99;
ELSE _FRTSERV=SUM(FTJUDAY, FRUTDAY, GNSLDAY, POTADAY,
      CRTSDAY, VEGEDAY);
_FRTSERV=round((_FRTSERV *100),1); *This is done after all of
      the fruits and vegetable calculations but the code is
      included here;
```

Section 7: Fruits And Vegetables (continued)

_ FRTINDX *Summary fruit & vegetable index.* _ FRTINDX is derived from the per day variable (_FRTSERV).

1	Less than 1 per day or never	Respondents reporting they never consume fruits and vegetables or consume less than 1 time per day (_FRTSERV<1)
2	1 to less than 3 times per day	Respondents reporting they consume fruits and vegetables 1 to less than 3 times per day (1<=_FRTSERV<3)
3	3 to less than 5 times per day	Respondents reporting they consume fruits and vegetables 3 to less than 5 times per day (3<=_FRTSERV<5)
4	5 or more times per day	Respondents reporting they consume fruits and vegetables 5 or more times per day (5<=_FRTSERV<999.99)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents with _FRTSERV=999.99

SAS code:

```
     IF _FRTSERV LT 1 THEN _FRTINDX=1;
ELSE IF 1 LE _FRTSERV LT 3 THEN _FRTINDX=2;
ELSE IF 3 LE _FRTSERV LT 5 THEN _FRTINDX=3;
ELSE IF 5 LE _FRTSERV LT 999.99 THEN _FRTINDX=4;
ELSE IF _FRTSERV=999.99 THEN _FRTINDX=9;
```

_ FV5SRV *Adults who have consumed fruits and vegetables five or more times per day.* _ FV5SRV is derived from the servings per day variable (_FRTSERV).

1	Less than 5 times per day or never	Respondents reporting they never consume fruits and vegetables or consume less than 5 times per day (_FRTSERV<5)
2	5 or more times per day	Respondents reporting they consume fruits and vegetables 5 or more times per day (5<=_FRTSERV<999.99)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents with _FRTSERV=999.99

SAS code:

```
     IF _FRTSERV LT 5 THEN _FV5SRV=1;
ELSE IF 5 LE _FRTSERV LT 999.99 THEN _FV5SRV=2;
ELSE IF _FRTSERV=999.99 THEN _FV5SRV=9;
```

Section 8: Weight Control

There are no calculated variables for Section 8.

Section 9: Asthma

_LTASTHM *Risk factor: Respondents that have been told by a doctor, nurse or health professional that they had asthma.* _LTASTHM is derived from ASTHMA2.

1	Not At Risk	Respondents that have not been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=2)
2	At Risk	Respondents that have been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=1)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who reported they did not know if they had been told by a doctor, nurse or health professional that they had asthma, those that refused to answer if they had been told by a doctor, nurse or health professional that they had asthma, or those with missing responses (ASTHMA2=7, 9, Missing)

SAS code:

```
     IF ASTHMA2=1 THEN _LTASTHM=2;
ELSE IF ASTHMA2=2 THEN _LTASTHM=1;
ELSE _LTASTHM=9;
```

_CASTHMA *Risk factor: Respondents that have been told by a doctor, nurse or health professional that they had asthma and that they still have asthma.* _CASTHMA is derived from ASTHMA2 and ASTHNOW.

1	Not At Risk	Respondents that have not been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=2) or do not still have asthma (ASTHMA2=1 and ASTHNOW=2)
2	At Risk	Respondents that have been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=1) and that they still have asthma (ASTHNOW=1)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who reported they did not know if they had been told by a doctor, nurse or health professional that they had asthma, those that refused to answer if they had been told by a doctor, nurse or health professional that they had asthma, those that did not know if they still had asthma, those that refused to answer if they still had asthma, or those with missing responses (ASTHMA2=7, 9, Missing) or (ASTHNOW=7, 9, Missing)

SAS code:

```
     IF ASTHMA2=2 THEN _CASTHMA=1;
ELSE IF ASTHMA2=1 AND ASTHNOW=1 THEN _CASTHMA=2;
ELSE IF ASTHMA2=1 AND ASTHNOW=2 THEN _CASTHMA=1;
ELSE _CASTHMA=9;
```

Section 9: Asthma (continued)

_ASTHMST *Computed asthma status: Those currently, formerly or never having been told that they had asthma.* _ ASTHMST is derived from ASTHMA2 and ASTHNOW.

1	Current	Have been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=1) and that they still have asthma (ASTHNOW=1)
2	Former	Have been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=1) but do not still have asthma (ASTHNOW=2)
3	Never	Have not been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=2)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who reported they didn't know if they had been told by a doctor, nurse or health professional that they had asthma, those that refused to answer if they had been told by a doctor, nurse or health professional that they had asthma, those that didn't know if they still had asthma, those that refused to answer if they still had asthma, or those with missing responses (ASTHMA2=7, 9, Missing; or ASTHNOW=7, 9, Missing)

SAS code:

```
     IF ASTHMA2=1 AND ASTHNOW=1 THEN _ASTHMST=1;
ELSE IF ASTHMA2=1 AND ASTHNOW=2 THEN _ASTHMST=2;
ELSE IF ASTHMA2=2 THEN _ASTHMST=3;
ELSE _ASTHMST=9;
```

Section 10: Immunization

_FLUSHOT *Risk factor: Respondents aged 65 and older that have had flu shot within the past 12 months*. _FLUSHOT is derived from FLUSHOT. (Meets Healthy People 2010 Objective # 14-29: Increase The Proportion Of Adults Who Are Vaccinated Annually Against Influenza - Non-institutionalized Adults Aged 65+.)

1	Not At Risk	Respondents aged 65 or older who reported having a flu shot within the past 12 months (FLUSHOT=1)
2	At Risk	Respondents aged 65 or older who reported not having had a flu shot within the past 12 months (FLUSHOT=2)
9	Don't Know/ Not Sure/ Refused	Respondents who did not know their age, those that refused to report their age, those that didn't know if they had a flu shot in the past 12 months, or those that refused to answer if they had a flu shot in the past 12 months, or those with missing responses (AGE=7, 9, Missing; or FLUSHOT=7, 9, Missing)
.	Missing	Respondents aged 18-64

SAS code:

```
IF AGE GE 65 THEN DO;
          IF FLUSHOT=1 THEN _FLUSHOT=1;
    ELSE IF FLUSHOT=2 THEN _FLUSHOT=2;
    ELSE IF FLUSHOT IN (.,7,9) THEN _FLUSHOT=9;
    END;
ELSE IF AGE IN (.,7,9) THEN _FLUSHOT=9;
ELSE _FLUSHOT=.;
```

Section 10: Immunization (continued)

_PNEUMOC *Risk factor: Respondents aged 65 and older that have ever had a pneumonia shot*. _PNEUMOC is derived from PNEUVAC2. (Meets Healthy People 2010 objective #14-29: Increase the proportion of adults who were ever vaccinated against pneumococcal disease - non-institutionalized adults aged 65+.)

1	Not At Risk	Respondents aged 65 or older who reported having a pneumonia shot (PNEUVAC2=1)
2	At Risk	Respondents aged 65 or older who reported not having had a pneumonia shot (PNEUVAC2=2)
9	Don't Know/ Not Sure/ Refused	Respondents who did not know their age, those that refused to report their age, those that did not know if they ever had a pneumonia shot, those that refused to answer if they had a pneumonia shot, or those with missing responses (AGE=7, 9, Missing; or PNEUVAC2=7, 9, Missing)
.	Missing	Respondents aged 18-64

SAS code:

```
IF AGE GE 65 THEN DO;
          IF PNEUVAC2=1 THEN _PNEUMOC=1;
    ELSE IF PNEUVAC2=2 THEN _PNEUMOC=2;
    ELSE IF PNEUVAC2 IN (.,7,9) THEN _PNEUMOC=9;
    END;
ELSE IF AGE IN (.,7,9) THEN _PNEUMOC=9;
ELSE _PNEUMOC=.;
```

Section 11: Tobacco Use

_SMOKER2 *Four level smoker status.* _SMOKER2 is derived from SMOKE100 and SMOKEDAY.

1	Current Smoker (every day)	Respondents that reported having smoked at least 100 cigarettes in their lifetime and now smoke every day (SMOKE100=1 and SMOKEDAY=1)
2	Current Smoker (some days)	Respondents that reported having smoked at least 100 cigarettes in their lifetime and now smoke some days (SMOKE100=1 and SMOKEDAY=2)
3	Former Smoker	Respondents that reported having smoked at least 100 cigarettes in their lifetime and currently do not smoke (SMOKE100=1 and SMOKEDAY=3)
4	Never Smoked	Respondents that reported they had not smoked at least 100 cigarettes in their lifetime (SMOKE100=2)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who reported they didn't know if they had smoked 100 cigarettes in their lifetime, those that refused to answer if they had smoked 100 cigarettes in their lifetime, those that didn't know if they now smoked every day, some days or not at all, those that refused to answer if they now smoked every day, some days or not at all, or those with missing responses (SMOKE100=7, 9, Missing; or SMOKEDAY=7, 9, Missing)

SAS code:

```
IF SMOKE100=2 THEN _SMOKER2=4;
ELSE IF SMOKE100=1 THEN DO;
          IF SMOKEDAY=1 THEN _SMOKER2=1;
    ELSE IF SMOKEDAY=2 THEN _SMOKER2=2;
    ELSE IF SMOKEDAY=3 THEN _SMOKER2=3;
    ELSE _SMOKER2=9;
    END;
ELSE _SMOKER2=9;
```

Section 11: Tobacco Use (continued)

_RFSMOK2 *Risk factor: Respondents that reported having smoked at least 100 cigarettes in their lifetime and currently smoke*. _RFSMOK2 derived from _SMOKER2.

1	Not At Risk	Respondents that reported they had not smoked at least 100 cigarettes in their lifetime, those that reported having smoked 100 cigarettes in their lifetime but do not currently smoke (_SMOKER2=3, 4)
2	At Risk	Respondents that reported having smoked at least 100 cigarettes in their lifetime and currently smoke (_SMOKER2=1, 2)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who reported they did not know if they had smoked 100 cigarettes in their lifetime, those that refused to answer if they had smoked 100 cigarettes in their lifetime, those that didn't know if they now smoked every day, some days or not at all, those that refused to answer if they now smoked every day, some days or not at all, or those with missing responses (SMOKER2=9)

SAS code:

```
     IF _SMOKER2 IN (1,2) THEN _RFSMOK2=2;
ELSE IF _SMOKER2 IN (3,4) THEN _RFSMOK2=1;
ELSE _RFSMOK2=9;
```

Section 12: Alcohol Consumption

DROCCDY_ *Drink-occasions-per-day*. DROCCDY_ is derived from ALCDAY3 by dividing the ALCDAY3 variable by 7 days per week or 30 days per month. (Note: DROCCDY_ gets multiplied by 100 after _RFCRDR2 is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 1.23 will be 123 in the final data set.)

9	Don't Know/ Not Sure/ Refused/ Missing	Respondents that reported they did not know how many days they had at least one drink of alcohol, those that refused to answer how many days they had at least one drink of alcohol, those with missing responses (ALCDAY3=777, 999, ".").

SAS code:

```
     IF 101 LE ALCDAY3 LE 107 THEN DROCCDY_=(ALCDAY3-100)/7;
ELSE IF 201 LE ALCDAY3 LE 230 THEN DROCCDY_=(ALCDAY3-200)/30;
ELSE IF ALCDAY3 EQ 888 THEN DROCCDY_=0;
ELSE IF ALCDAY3 IN (.,777,999) THEN DROCCDY_=9;
DROCCDY_=round((DROCCDY_*100),1); *This is done after all of
the alcohol calculations but the code is included here;
```

Section 12: Alcohol Consumption (continued)

DRNKANY3 *Alcoholic beverages consumed in the past 30 days.* DRNKANY3 is derived from ALCDAY3 and creates a "Yes/No" variable similar to DRINKANY and DRNKANY2 that were used in surveys previously.

1	Yes	Respondents who report drinking alcohol in the past 30 days (ALCDAY3 < 231)
2	No	Respondents who report not drinking alcohol in the past 30 days (ALCDAY3=888)
7	Don't know/ Not Sure	Respondents who report they did not know or were not sure if they drank alcohol in the past 30 days (ALCDAY3=777)
9	Refused/ Missing	Respondents who refused to answer if they drank alcohol in the past 30 days, or those with missing responses (ALCDAY3=999, Missing)

SAS code:

```
     IF ALCDAY3 < 231 THEN DRNKANY3=1;
ELSE IF ALCDAY3=888 THEN DRNKANY3=2;
ELSE IF ALCDAY3=777 THEN DRNKANY3=7;
ELSE DRNKANY3=9;
```

_RFBING2 *Risk factor: Having five or more drinks of alcohol on an occasion.* _RFBING2 is derived from DRNK2GE5 and ALCDAY3.

1	Not At Risk	Respondents who report they did not drink in the past 30 days, or those that report that they did drink alcohol in the past 30 days but did not report having five or more drinks of alcohol on an occasion (ALCDAY3<231 and DRNK2GE5=0, 88; or ALCDAY3=888)
2	At Risk	Respondents who report they did drink in the past 30 days and had five or more drinks on one or more occasions in the past month (ALCDAY3<231 and 1<=DRNK2GE5<=76)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who reported that they did not know if they had consumed five or more drinks of alcohol on one occasion or refused to answer if they had consumed five or more drinks of alcohol on one occasion or those with missing responses (DRNK2GE5=77, 99, Missing; or ALCDAY3=777, 999, Missing)

SAS code:

```
IF ALCDAY3 NOTIN (777,888,999,.) THEN DO;
      IF (1 LE DRNK2GE5 LE 76) THEN _RFBING2=2;
      ELSE IF DRNK2GE5 IN (.,77,99) THEN _RFBING2=9;
      ELSE IF DRNK2GE5 IN (88) THEN _RFBING2=1;
      END;
ELSE IF ALCDAY3 IN (888) THEN _RFBING2=1;
ELSE _RFBING2=9;
```

Section 12: Alcohol Consumption (continued)

_DRNKDY2 *Total number of alcohol drinks consumed per day.* _DRNKDY2 is derived from DROCCDY_ and AVEDRNK by multiplying the total number of drink occasions per day (DROCCDY_) by the average number of drinks per occasion (AVEDRNK). DRNKDY2 is stored in the data set with two implied decimal places. To get the actual value, divide DRNKDY2 by 100.

0		Respondents who did not drink in the past month (DROCCDY_=0)
99	Don't Know/ Not Sure/ Refused/ Missing	Respondents who refused to report the number of alcohol drinks consumed per day, or respondents who did not know the number of alcohol drinks consumed per day, or those with missing responses (AVEDRNK=.,77,99) or respondents who refused to report the number drink occasions per day, or respondents who did not know the number of drink occasions per day, or those with missing responses (DROCCDY_=9)

SAS code:

```
IF DROCCDY_=0 THEN _DRNKDY2=0;
ELSE IF DROCCDY_=9 THEN _DRNKDY2=99;
ELSE IF AVEDRNK IN (.,77,99) THEN _DRNKDY2=99;
ELSE _DRNKDY2=AVEDRNK * DROCCDY_;
_DRNKDY2=ROUND((_DRNKDY2*100),1); *This is done after all of
the alcohol calculations but the code is included here;
```

_DRNKMO2 *Total number of alcohol drinks per month.* _DRNKMO2 is derived by multiplying _DRNKDY2 by 30.

0		Respondents who did not consume any drinks of alcohol in the past month
9999	Don't Know/ Not Sure/ Refused/ Missing	Respondents who reported they did not know if they consumed any drinks of alcohol in the past month, or those that refused to answer if they consumed any drinks of alcohol in the past month
.	Missing	Respondents with missing responses

SAS code:

```
IF _DRNKDY2 NOTIN (.,99) THEN _DRNKMO2=_DRNKDY2*30;
ELSE IF _DRNKDY2=99 THEN _DRNKMO2=9999;
ELSE _DRNKMO2=.;
_DRNKMO2=ROUND(_DRNKMO2,1); *This is done after all of the
alcohol calculations but the code is included here;
```

Section 12: Alcohol Consumption (continued)

_RFDRHV2 *Risk factor: Heavy alcohol consumption.* _RFDRHV2 is derived from _DRNKDY2, ALCDAY3, and SEX. Heavy alcohol consumption was defined as men having an average of more than 2 drinks per day and women having an average of more than 1 drink per day. (_DRNKDY2 has two implied decimal places; therefore, two drinks per day are represented as _DRNKDY2=200.)

1	Not At Risk	Male respondents who report having 2 drinks per day or less, or female respondents who report having 1 drinks per day or less (Sex=1 and _DRNKDY2 <= 200 or Sex=2 and _DRNKDY2 <= 100 or ALCDAY3=888)
2	At Risk	Male respondents who report having more than 2 drinks per day, or female respondents who report having more than 1 drink per day (Sex=1 and _DRNKDY2 > 200 or Sex=2 and _DRNKDY2 > 100)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom ALCDAY3=777, 999, or missing, or _DRNKDY2=99, or missing

SAS code:

```
IF SEX=1 AND _DRNKDY2 NOTIN (99,.) THEN DO;
      IF _DRNKDY2 GT 2 THEN _RFDRHV2=2;
      ELSE IF _DRNKDY2 LE 2 THEN _RFDRHV2=1;
      END;
ELSE IF SEX=2 AND _DRNKDY2 NOTIN (99,.) THEN DO;
      IF _DRNKDY2 GT 1 THEN _RFDRHV2=2;
      ELSE IF _DRNKDY2 LE 1 THEN _RFDRHV2=1;
      END;
ELSE IF ALCDAY3 IN (888) THEN _RFDRHV2=1;
ELSE _RFDRHV2=9;
```

Section 12: Alcohol Consumption (continued)

_RFDRMN2 *Risk factor: Heavy alcohol consumption among men.* _RFDRMN2 is derived from _DRNKDY2 and SEX and ALCDAY3. Heavy alcohol consumption was defined as men having an average of more than 2 drinks per day. (_DRNKDY2 has two implied decimal places; therefore, two drinks per day are represented as _DRNKDY2=200.)

1	Not At Risk	Male respondents who report having 2 drinks per day or less (SEX=1 and _DRNKDY2 <= 200 or ALCDAY3=888)
2	At Risk	Male respondents who report having more than 2 drinks per day (SEX=1 and _DRNKDY2 > 200)
9	Don't Know/ Not Sure/ Refused/ Missing	Male respondents (SEX=1) for whom ALCDAY3=777, 999, or missing, or _DRNKDY2=99, or missing
.	Female	Female respondents (SEX=2).

SAS code:

```
IF SEX=1 THEN DO;
      IF _DRNKDY2 NOTIN (99,.) THEN DO;
            IF _DRNKDY2 GT 2 THEN _RFDRMN2=2;
            ELSE IF _DRNKDY2 LE 2 THEN _RFDRMN2=1;
            END;
      ELSE IF ALCDAY3 IN (888) THEN _RFDRMN2=1;
      ELSE IF ALCDAY3 IN (.,777,999) THEN _RFDRMN2=9;
      END;
ELSE IF SEX=2 THEN _RFDRMN2=.;
```

_RFDRWM2 *Risk factor: Heavy alcohol consumption among women.* _RFDRMN2 is derived from _DRNKDY2 and SEX and ALCDAY3. Heavy alcohol consumption was defined as women having an average of more than 1 drink per day. (_DRNKDY2 has two implied decimal places; therefore, two drinks per day are represented as _DRNKDY2=200.)

1	Not At Risk	Female respondents who report having 1 drink per day or less (SEX=2 and _DRNKDY2 <= 200 or ALCDAY3=888)
2	At Risk	Female respondents who report having more than 1 drink per day (SEX=2 and _DRNKDY2 > 200)
9	Don't Know/ Not Sure/ Refused/ Missing	Female respondents (SEX=2) for whom ALCDAY3=777, 999, or missing, or _DRNKDY2=99, or missing
.	Male	Male respondents (SEX=1)

SAS code:

```
IF SEX=2 THEN DO;
      IF _DRNKDY2 NOTIN (99,.) THEN DO;
            IF _DRNKDY2 GT 1 THEN _RFDRWM2=2;
            ELSE IF _DRNKDY2 LE 1 THEN _RFDRWM2=1;
            END;
      ELSE IF ALCDAY3 IN (888) THEN _RFDRWM2=1;
      ELSE IF ALCDAY3 IN (.,777,999) THEN _RFDRWM2=9;
      ELSE _RFDRWM2=9;
      END;
ELSE IF SEX=1 THEN _RFDRWM2=.;
```

Section 13: Excess Sun Exposure

There are no calculated variables for Section 13.

Section 14: Demographics Race variables

MRACEORG *Reported MRACE variable with any trailing 7,8, or 9 removed*. MRACEORG is derived from MRACE in the original order in which the data were received from the state/territory. If MRACE is greater than 9 then any trailing 7,8, or 9 is removed. If MRACE is less than or equal to 9 then MRACEORG is equal to MRACE. (Example: If MRACE=3147 then MRACEORG=314.)

SAS code:

```
IF LENGTH(MRACE) > 1 THEN DO;
MRACEORG = PUT(COMPRESS(MRACE,'789'),6.);
END;
ELSE DO;
MRACEORG=MRACE;
END;
```

MRACEASC *Reported MRACE variable with any trailing 7,8, or 9 removed, in ascending order*. MRACEASC is derived from MRACEORG. The values that make up MRACEORG are sorted from smallest to largest. (Example: If MRACEORG=513 then MRACEASC=135.)

SAS code:

```
IF LENGTH(TRIM(LEFT(MRACEORG))) > 1 THEN DO;
LEN=LENGTH(RIGHT(MRACEORG));
DO I = 1 TO LEN-1;
DO J = 1 TO LEN-1 WHILE (SUBSTR(MRACEORG,J+1,1) NE ' ');
IF SUBSTR(MRACEORG,J,1) > SUBSTR(MRACEORG,J+1,1) THEN
SUBSTR(MRACEORG,J,2) = REVERSE(SUBSTR(MRACEORG,J,2));
END;
END;
END;
MRACEASC = INPUT(MRACEORG,6.);
```

Section 14: Demographics Race variables (continued)

_PRACE *Preferred race category.* _PRACE is derived from MRACEASC and ORACE2. If MRACEASC has only one response, then _PRACE= MRACEASC. If MRACEASC has more than one response then _PRACE=ORACE2. Hispanic or Latino information is not used to derive this variable.

1	White	Respondents who report their race as white (MRACE=1 or MRACEASC>11 and ORACE2=1)
2	Black	Respondents who report their race as black (MRACE=2 or MRACEASC>11 and ORACE2=2)
3	Asian	Respondents who report they are Asian (MRACE=3 or MRACEASC>11 and ORACE2=3)
4	Native Hawaiian or Pacific Islander	Respondents who report their race as Native Hawaiian or Pacific Islander (MRACE=4 or MRACEASC>11 and ORACE2=4)
5	American Indian, Alaska Native	Respondents who report their race as American Indian or Alaska Native (MRACE=5 or MRACEASC>11 and ORACE2=5)
6	Other Race	Respondents who report they are of some other race group not listed in the question responses (MRACE=6 or MRACEASC>11 and ORACE2=6)
7	No Preferred Race	Respondents who report they are of more than one race group but do not report a preference or preferred race is missing (MRACEASC>11 and ORACE2=7 or 9)
8	Multiracial (Preferred Race Not Asked)	Respondents who report they are of more than one race group but did not answer the question about which race best represents them **NOTE: This is a data collection error.** (MRACEASC >11 and ORACE2=8) or (MRACEASC >11 and ORACE2=.)
77	Don't Know	Respondents who report they did not know their race and did not answer the question about which race best represents them. (MRACEASC =7)
99	Refused	Respondents who refused to give their race and did not answer the question about which race best represents them (MRACEASC =9)

SAS code:

```
IF 1 LE MRACEASC LE 6 THEN _PRACE=MRACEASC;
ELSE IF MRACEASC EQ 7 THEN _PRACE=77;
ELSE IF MRACEASC EQ 9 THEN _PRACE=99;
ELSE IF MRACEASC GE 12 AND ORACE2 IN (7,9) THEN _PRACE=7;
ELSE IF MRACEASC GE 12 AND ORACE2 EQ . THEN _PRACE=8;
ELSE IF MRACEASC GE 12 AND ORACE2 EQ 8 THEN _PRACE=8;
ELSE IF 1 LE ORACE2 LE 6 THEN _PRACE=ORACE2;
```

Section 14: Demographics Race variables (continued)

_MRACE *Multiracial race categorization.* _MRACE is derived from MRACEASC. If respondents report more than one race they are assigned to the multiracial category. Otherwise _MRACE=MRACEASC. Hispanic or Latino information not used in defining this variable.

01	White only	Respondents who report they are white (MRACEASC=1)
02	Black only	Respondents who report they are black (MRACEASC=2)
03	Asian only	Respondents who report they are Asian (MRACEASC=3)
04	Native Hawaiian or Pacific Islander only	Respondents who report they are Native Hawaiian or Pacific Islander (MRACEASC=4)
05	American Indian, Alaska Native only	Respondents who report they are American Indian or Alaska Native (MRACEASC=5)
06	Other Race only	Respondents who report they are of some other race group not listed in the question responses (MRACEASC=6)
07	Multiracial	Respondents who report they are of more than one race group but do not specify a preferred race (MRACEASC>11)
77	Don't Know/ Not Sure	Respondents who report they did not know their race (MRACEASC=7)
99	Refused	Respondents who refused to give their race information (MRACEASC=9)

SAS code:

```
IF MRACEASC GE 12 THEN _MRACE = 7;
ELSE IF MRACEASC EQ 9 THEN _MRACE = 99;
ELSE IF MRACEASC EQ 7 THEN _MRACE = 77;
ELSE IF 1 LE MRACEASC LE 6 THEN _MRACE = MRACEASC;
```

Section 14: Demographics Race variables (continued)

RACE2 *Race/ethnicity categories*. RACE2 is derived from _MRACE and HISPANC2. All respondents who report they are of Hispanic or Latino origin are coded as Hispanic.

1	White only, Non-Hispanic	Respondents who report they are white and not of Hispanic origin (_MRACE=01 and HISPANC2=2)
2	Black only, Non-Hispanic	Respondents who report they are black and not of Hispanic origin (_MRACE=02 and HISPANC2=2)
3	Asian only, Non-Hispanic	Respondents who report they are Asian and not of Hispanic origin (_MRACE=03 and HISPANC2=2)
4	Native Hawaiian or Pacific Islander only, Non-Hispanic	Respondents who report they are Native Hawaiian or Islander and not of Hispanic origin (_MRACE=04 and HISPANC2=2)
5	American Indian, Alaska Native only, Non-Hispanic	Respondents who report they are American Indian or Alaska Native and not of Hispanic origin (_MRACE=05 and HISPANC2=2)
6	Other Race only, Non-Hispanic	Respondents who report they are of some other race group not listed in the question responses and are not of Hispanic origin (_MRACE=06 and HISPANC2=2)
7	Multiracial, Non-Hispanic	Respondents who report they are of more than one race group and are not of Hispanic origin (_MRACE=07 and HISPANC2=2)
8	Hispanic	Respondents who report they are of Hispanic origin (HISPANC2=1)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who did not know their race or refused to give their race and are not of Hispanic origin or did not know if they are of Hispanic origin or refused to answer if they are of Hispanic origin (_MRACE =77,99 and HISPANC2=2, or HISPANC2=7,9)

SAS code:

```
IF HISPANC2 IN (7,9) OR (_MRACE IN(77,99) AND HISPANC2 EQ 2)
THEN DO;
      RACE2=9;
      END;
 ELSE IF HISPANC2=2 THEN DO;
      IF _MRACE=1 THEN RACE2=1;
      ELSE IF _MRACE=2 THEN RACE2=2;
      ELSE IF _MRACE=3 THEN RACE2=3;
      ELSE IF _MRACE=4 THEN RACE2=4;
      ELSE IF _MRACE=5 THEN RACE2=5;
       ELSE IF _MRACE=6 THEN RACE2=6;
      ELSE IF _MRACE=7 THEN RACE2=7;
      END;
 ELSE IF HISPANC2=1 THEN DO;
      RACE2=8;
      END;
```

Section 14: Demographics Race variables (continued)

_RACEG2 *White/Hispanic race group.* _RACEG2 is derived from RACE2.

1	White only, Non-Hispanic	Respondents who report they are white and not of Hispanic origin (RACE2=1)
2	Non-White, Multiracial or Hispanic	All other respondents with valid RACE2 responses (RACE2=2, 3, 4, 5, 6, 7, 8)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom RACE2=9

SAS code:

```
IF RACE2=1 THEN _RACEG2=1;
ELSE IF RACE2 IN (2,3,4,5,6,7,8) THEN _RACEG2=2;
ELSE IF RACE2=9 THEN _RACEG2=9;
```

_RACEGR2 *Five-level race/ethnicity category*. _RACEGR2 is derived from RACE2.

1	White only, Non-Hispanic	Respondents who report they are white and not of Hispanic origin (RACE2=1)
2	Black only, Non-Hispanic	Respondents who report they are black and not of Hispanic origin (RACE2=2)
3	Other Race only, Non-Hispanic	All other respondents with valid race responses except for those reporting multiracial or Hispanic origins (RACE2=3,4,5,6)
4	Multiracial, Non-Hispanic	All other respondents reporting multiracial but non-Hispanic origin (RACE2=7)
5	Hispanic	Respondents who report that they are of Hispanic origin (RACE2=8)
9	Don't Know/ Not Sure/ Refused	Respondents for whom RACE2=9

SAS code:

```
IF RACE2=1 THEN _RACEGR2=1;
ELSE IF RACE2=2 THEN _RACEGR2=2;
ELSE IF 3 LE RACE2 LE 6 THEN _RACEGR2=3;
ELSE IF RACE2 EQ 7 THEN _RACEGR2=4;
ELSE IF RACE2 EQ 8 THEN _RACEGR2=5;
ELSE IF RACE2=9 THEN _RACEGR2=9;
```

_CNRACE *Number of census race categories chosen*. _CNRACE is derived from MRACEASC and is equal to the number of "census" race categories chosen: (White, Black, Asian, Native Hawaiian/Pacific Islander, American Indian/Alaska Native).

1-5	MRACEASC is between 1 and 5
0	MRACEASC is between 6 and 9

SAS code:

```
* EXTRA CHARACTERS (6,7,9) ARE REMOVED;
MRACE_=COMPRESS(MRACEASC,'679');
* BLANK SPACES ARE REMOVED;
IF MRACEASC NOTIN (6,7,9) THEN DO;
      _CNRACE=LENGTH(COMPRESS(MRACE_));
      END;
ELSE DO;
      _CNRACE=0;
      END;
```

Section 14: Demographics Race variables (continued)

_CNRACEC *Number of census race categories chosen, collapsed*. _CNRACEC is derived from _CNRACE.

1	One category	One census race category chosen by the respondent (_CNRACE=1)
2	More than one category	Two or more census race categories chosen by the respondent (_CNRACE > 1)
.	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom _CNRACE=0

SAS code:

```
IF _CNRACE EQ 0 THEN _CNRACEC=.;
ELSE IF _CNRACE EQ 1 THEN _CNRACEC=1;
ELSE _CNRACEC=2;
```

Section 14: Demographics Age variables

_AGEG5YR *Fourteen-level age category*. _AGEG5YR is derived from AGE.

01	18-24	Respondents with reported age including 18-24 years
02	25-29	Respondents with reported age including 25-29 years
03	30-34	Respondents with reported age including 30-34 years
04	35-39	Respondents with reported age including 35-39 years
05	40-44	Respondents with reported age including 40-44 years
06	45-49	Respondents with reported age including 45-49 years
07	50-54	Respondents with reported age including 50-54 years
08	55-59	Respondents with reported age including 55-59 years
09	60-64	Respondents with reported age including 60-64 years
10	65-69	Respondents with reported age including 65-69 years
11	70-74	Respondents with reported age including 70-74 years
12	75-79	Respondents with reported age including 75-79 years
13	80-99	Respondents with reported age including 80-99 years
14	Don't Know/ Not Sure/ Refused/ Missing	Respondents that reported they did not know their age, or those that refused to report their age, or those with missing responses (AGE=7, 9, .)

SAS code:

```
IF 18 LE AGE LE 24 THEN _AGEG5YR=1;
ELSE IF 25 LE AGE LE 29 THEN _AGEG5YR=2;
ELSE IF 30 LE AGE LE 34 THEN _AGEG5YR=3;
ELSE IF 35 LE AGE LE 39 THEN _AGEG5YR=4;
ELSE IF 40 LE AGE LE 44 THEN _AGEG5YR=5;
ELSE IF 45 LE AGE LE 49 THEN _AGEG5YR=6;
ELSE IF 50 LE AGE LE 54 THEN _AGEG5YR=7;
ELSE IF 55 LE AGE LE 59 THEN _AGEG5YR=8;
ELSE IF 60 LE AGE LE 64 THEN _AGEG5YR=9;
ELSE IF 65 LE AGE LE 69 THEN _AGEG5YR=10;
ELSE IF 70 LE AGE LE 74 THEN _AGEG5YR=11;
ELSE IF 75 LE AGE LE 79 THEN _AGEG5YR=12;
ELSE IF 80 LE AGE LE 99 THEN _AGEG5YR=13;
ELSE _AGEG5YR=14;
```

Section 14: Demographics Age variables (continued)

_AGE65YR *Two-level age category.* _AGE65YR is derived from AGE.

1	18-64	Respondents with reported ages 18-64 (AGE <=64)
2	65-99	Respondents with reported ages 64-99 (AGE > 64)
3	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom AGE=7, 9, or .

SAS code:

```
IF 18 LE AGE LE 64 THEN _AGE65YR=1;
ELSE IF 65 LE AGE LE 99 THEN _AGE65YR=2;
ELSE _AGE65YR=3;
```

Section 14: Demographics Overweight & Obese

HTIN2 *(New variable in 2003.)* *Reported height in inches.* HTIN2 is derived from HEIGHT. HTIN2 is calculated by adding the foot portion of HEIGHT multiplied by 12, to the inch portion. (Note: HTIN2 gets rounded after all of the body mass index calculations occur to make sure that there are no decimals.) *(Name changed from HTIN to HTIN2 due to the "Don't Know/Refused value equal to 999, was equal to 99 in 2002.)*

SAS code:

```
* CREATE HEIGHT1 CHARACTER VARIABLE;
HEIGHT1=PUT(HEIGHT,3.);
IF HEIGHT NOT IN (777,999) THEN DO;
HTIN2=INPUT((SUBSTR(HEIGHT1,2,2)),2.)) +
           ((INPUT((SUBSTR(HEIGHT1,1,1)),1.))*12);
      END;
HTIN2 = round(HTIN2,1);   *
IF HTIN2=. THEN HTIN2=999; *This is done after all of the BMI
calculations are completed, but the code is included here;
```

HTM2 *(New variable in 2003.)* *Reported height in meters.* HTM2 is derived from the variable HTIN2 by multiplying HTIN2 by 2.54 cm/in and dividing by 100 cm/meter. (Note: HTM2 is stored in the data set with two implied decimal places and gets rounded after all of the body mass index calculations are completed; therefore all calculations include the decimals.) *(Name changed from HTM to HTM2 due to the variable HTIN changing to HTIN2.)*

SAS code:

```
HTM2 = (HTIN2 * 2.54) / 100;
HTM2 = round((HTM2*100),1);
IF HTM=. THEN HTM2=999;    *This is done after all of the BMI
calculations are completed, but the code is included here;
```

WTKG *Reported weight in kilograms.* WTKG is derived from WEIGHT by dividing Weight by 2.2 kg/lb. (Note: WTKG is stored in the data set with two implied decimal places and gets rounded after all of the body mass index calculations are completed; therefore all calculations include the decimals.)

SAS code:

```
IF WEIGHT NOT IN (777,999) THEN DO;
      WTKG=WEIGHT / 2.2;
      END;
WTKG = round((WTKG*100),1);
IF WTKG=. THEN WTKG=99999;  *This is done after all of the
BMI calculations are completed, but the code is included
here;
```

Section 14: Demographics Overweight & Obese (continued)

_BMI3 *(New variable in 2003.)*

Body mass index (BMI). _BMI3 is derived from WTKG and HTM2. It is calculated by WTKG divided by HTM2². (Note: The final _BMI3 value is rounded so it is free of decimals.) *(Name changed from _BMI2 to _BMI3 due to the variable HTM changing to HTM2.)*

SAS code:

```
IF (WTKG NOTIN (.)) AND (HTM2 NOTIN (.))  THEN _BMI3= WTKG /
(HTM2 ** 2);
ELSE _BMI3=.;
IF _BMI3 GT 99.98 THEN _BMI3 = 99.98;
ELSE IF _BMI3=. THEN _BMI3 = 99.99;
_BMI3 = ROUND((_BMI3*100),1); *This is done after all of the
BMI calculations but the code is included here;
```

_BMI3CAT *(New variable in 2003.)*

Body mass index (BMI) categories. Variable is derived from _BMI3. *(Name changed from _BMI2CAT to _BMI3CAT due to _BMI2 changing to _BMI3.)*

1	Not Overweight or Obese	Respondents for whom _BMI3 < 25.00
2	Overweight	Respondents for whom 25.00 <= _BMI3 < 30.00
3	Obese	Respondents for whom 30.00 <= _BMI3 < 99.99
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom _BMI3=99.99

SAS code:

```
     IF ( 0.00 LE _BMI3 < 25.00) THEN _BMI3CAT = 1;
ELSE IF (25.00 LE _BMI3 < 30.00) THEN _BMI3CAT = 2;
ELSE IF (30.00 LE _BMI3 < 99.99) THEN _BMI3CAT = 3;
ELSE IF (_BMI3 = 99.99) THEN _BMI3CAT = 9;
```

_RFBMI3 *(New variable in 2003.)*

Risk factor: Respondents classified as overweight or obese. Variable is derived from _BMI3. *(Name changed from _RFBMI2 to _RFBMI3 due to _BMI2 changing to _BMI3.)*

1	Not At Risk	Respondents for whom _BMI3 < 25.00
2	At Risk	Respondents for whom 25.00 <= _BMI3 < 99.99
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom _BMI3=99.99

SAS code:

```
     IF ( 0.00 LE _BMI3 < 25.00) THEN _RFBMI3 = 1;
ELSE IF (25.00 LE _BMI3 < 99.99) THEN _RFBMI3 = 2;
ELSE IF (_BMI3 = 99.99) THEN _RFBMI3 = 9;
```

Section 14: Demographics (continued)

_CHLDCNT *Number of children.* _CHLDCNT is derived from CHILDREN.
(New variable in 2003.)

1	No Children	Respondents for whom CHILDREN = 88
2	One Children	Respondents for whom CHILDREN = 1
3	Two Children	Respondents for whom CHILDREN = 2
4	Three Children	Respondents for whom CHILDREN = 3
5	Four Children	Respondents for whom CHILDREN = 4
6	Five or more Children	Respondents for whom 5 <= _ CHILDREN < 87
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom CHILDREN = 99

SAS code:

```
     IF CHILDREN = 88 THEN _CHLDCNT = 1;
ELSE IF CHILDREN = 01 THEN _CHLDCNT = 2;
ELSE IF CHILDREN = 02 THEN _CHLDCNT = 3;
ELSE IF CHILDREN = 03 THEN _CHLDCNT = 4;
ELSE IF CHILDREN = 04 THEN _CHLDCNT = 5;
ELSE IF 05 <= CHILDREN < 88 THEN _CHLDCNT = 6;
ELSE IF CHILDREN = 99 THEN _CHLDCNT = 9;
```

_EDUCAG *Highest grade of education completed.* _EDUCAG is derived from EDUCA.
(New variable in 2003.)

1	Did not graduate High School	Respondents for whom EDUCA = 1,2,3
2	High School graduate	Respondents for whom EDUCA = 4
3	Attended College or Technical School	Respondents for whom EDUCA = 5
4	College or Technical School graduate	Respondents for whom EDUCA = 6
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom EDUCA = 9 or missing

SAS code:

```
     IF EDUCA IN (1,2,3) THEN _EDUCAG = 1;
ELSE IF EDUCA IN (4) THEN _EDUCAG = 2;
ELSE IF EDUCA IN (5) THEN _EDUCAG = 3;
ELSE IF EDUCA IN (6) THEN _EDUCAG = 4;
ELSE IF EDUCA IN (.,9) THEN _EDUCAG = 9;
```

Section 14: Demographics (continued)

_INCOMG *Annual Household Income.* _INCOMG is derived from INCOME2.
(New variable in 2003.)

1	Less than $15,000	Respondents for whom INCOME2 = 1 or 2
2	$15,000 to less than $25,000	Respondents for whom INCOME2 = 3 or 4
3	$25,000 to less than $35,000	Respondents for whom INCOME2 = 5
4	$35,000 to less than $50,000	Respondents for whom INCOME2 = 6
5	$50,000 or more	Respondents for whom INCOME2 = 7 or 8
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom INCOME2 = 77 or 99 or missing

SAS code:

```
     IF INCOME2 IN (1,2) THEN _INCOMG = 1;
ELSE IF INCOME2 IN (3,4) THEN _INCOMG = 2;
ELSE IF INCOME2 IN (5) THEN _INCOMG = 3;
ELSE IF INCOME2 IN (6) THEN _INCOMG = 4;
ELSE IF INCOME2 IN (7,8) THEN _INCOMG = 5;
ELSE IF INCOME2 IN (77,99,.) THEN _INCOMG = 9;
```

Section 15: Arthritis

There are no calculated variables for Section 8.

Section 16: Falls

There are no calculated variables for Section 16.

Section 17: Disability

There are no calculated variables for Section 17.

Section 18: Physical Activity

_MODPAMN *Minutes of Moderate Physical Activity.* _MODPAMN is derived from MODPATIM and MODPADAY by multiplying the hours portion of MODPATIM by 60 and adding it to the minutes portion.

0-599	Minutes	Respondents for whom MODPATIM is not equal to 777, 999, or . and MODPADAY is not equal to 77, 99, or .
.	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom MODPATIM=777, 999, or . or MODPADAY =77, 99 or .

SAS code:

```
IF MODPATIM > 959 THEN MODPATIM = 999;
IF MODPATIM NOTIN (.,777,999)  AND MODPADAY NOTIN (.,0,77,88,99)
THEN DO;
NEWPACT=MODPATIM;
NEWPACT=TRANSLATE(NEWPACT,'0',' ');
MODHRS_=SUBSTR(NEWPACT,2,1)+0;
MODMIN_=SUBSTR(NEWPACT,3,2)+0;
_MODPAMN=SUM(MODHRS_*60,MODMIN_);
END;
ELSE IF MODPADAY IN(0,88) THEN _MODPAMN = 0;
ELSE IF MODPADAY IN(.,77,99) THEN _MODPAMN = .;
_MODPAMN=ROUND(_MODPAMN,1);
```

Section 18: Physical Activity (continued)

_VIGPAMN *Minutes of Vigorous Physical Activity.* _VIGPAMN is derived from VIGPATIM and VIGPADAY by multiplying the hours portion of VIGPATIM by 60 and adding it to the minutes portion.

0-599	Minutes	Respondents for whom VIGPATIM is not equal to 777, 999, or . and VIGPADAY is not equal to 77, 99, or .
.	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom VIGPATIM=777, 999, or . or VIGPADAY =77, 99 or .

SAS code:

```
IF VIGPATIM > 959 THEN VIGPATIM = 999;
IF VIGPATIM NOTIN (.,777,999) AND VIGPADAY NOTIN (.,0,77,88,99)
     THEN DO;
NEWPACT=VIGPATIM;
NEWPACT=TRANSLATE(NEWPACT,'0',' ');
VIGHRS_=SUBSTR(NEWPACT,2,1)+0;
VIGMIN_=SUBSTR(NEWPACT,3,2)+0;
_VIGPAMN=SUM(VIGHRS_*60,VIGMIN_);
END;
ELSE IF VIGPADAY IN(0,88)  THEN _VIGPAMN = 0;
ELSE IF VIGPADAY IN(.,77,99) THEN _VIGPAMN = .;
_VIGPAMN=ROUND(_VIGPAMN,1);
```

MODCAT_ *(New variable for 2003.)* *Respondents that meet recommendations for moderate physical activity.* MODCAT_ is derived from MODPACT, _MODPAMN, MODPADAY, and MODPATIM.

1	Meet Objective	Respondents who report doing 30 or more minutes per day of moderate physical activity and for five or more days per week of moderate physical activity (MODPACT=1 and MODPADAY=5,6,7 and 30 <= _MODPAMN <= 599)
2	Insufficient Activity	Respondents who report doing less than 30 minutes per day of moderate physical activity, or less than five days per week of moderate physical activity (MODPACT=1 and MODPADAY not equal to .,77,99 and MODPATIM not equal to .,777,999)
3	No Activity	Respondents who report doing no moderate physical activity (MODPACT=2 OR _MODPAMN=0)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom MODPACT=.,7,9 or MODPACT=1 and MODPADAY=.,7.9 or MODPATIM=.,7,9

SAS code:

```
     IF MODPACT=2 OR _MODPAMN=0 THEN MODCAT_=3;
ELSE IF (5 <= MODPADAY <= 7 & 30 <= _MODPAMN <= 599) THEN
     MODCAT_=1;
ELSE IF MODPACT=1 AND MODPADAY NOTIN (.,77,99) AND MODPATIM NOTIN
     (.,777,999) THEN MODCAT_=2;
ELSE MODCAT_=9;
```

Section 18: Physical Activity (continued)

VIGCAT_ *(New variable for 2003.)*

Respondents that meet recommendations for vigorous physical activity. VIGCAT_ is derived from VIGPACT, _VIGPAMN, VIGPADAY, VIGPATIM.

1	Meet Objective	Respondents who report doing 20 or more minutes per day of vigorous physical activity and three or more days per week of vigorous physical activity (VIGPACT=1 and VIGPADAY=3,4,5,6,7 and 20 <= _VIGPAMN <= 599)
2	Insufficient Activity	Respondents who report doing less than 20 minutes per day of vigorous physical activity, or less than three days per week of vigorous physical activity (VIGPACT=1 and VIGPADAY not equal to .,77,99 and VIGPATIM not equal to .,777,999)
3	No Activity	Respondents who report doing no vigorous physical activity (VIGPACT=2 OR _VIGPAMN=0)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom VIGPACT=.,7,9 or VIGPACT=1 and VIGPADAY=.,7.9 or VIGPATIM=.,7,9

SAS code:

```
     IF VIGPACT=2 OR _VIGPAMN=0 THEN VIGCAT_=3;
ELSE IF (3 <= VIGPADAY <= 7 & 20 <= _VIGPAMN <= 599) THEN
     VIGCAT_=1;
ELSE IF VIGPACT=1 AND VIGPADAY NOTIN (.,77,99) AND VIGPATIM NOTIN
     (.,777,999) THEN VIGCAT_=2;
ELSE VIGCAT_=9;
```

Section 18: Physical Activity (continued)

PACAT_ *(New variable for 2003.)* — *Physical Activity Categories.* PACAT_ is derived from the variables MODCAT_ and VIGCAT_.

1	Meet Both	Respondents for whom MODCAT_=1 and VIGCAT_=1
2	Vigorous Only	Respondents for whom VIGCAT_=1 and MODCAT_>1
3	Moderate Only	Respondents for whom MODCAT_=1 and VIGCAT _>1
4	Insufficient Activity for Either Moderate or Vigorous	Respondents for whom MODCAT_=2 and VIGCAT_>1 or VIGCAT_=2 and MODCAT_>1
5	No Activity	Respondents for whom MODCAT_=3 and VIGCAT_=3
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom MODCAT_=9 and VIGCAT_=9

SAS code:

```
     If MODCAT_ = 3 and VIGCAT_ = 3 then PACAT_ = 5;
Else if MODCAT_ = 1 and VIGCAT_ = 1 then PACAT_ = 1;
Else if VIGCAT_ = 1 then PACAT_ = 2;
Else if MODCAT_ = 1 then PACAT_ = 3;
Else if MODCAT_ = 2 or  VIGCAT_ = 2 then PACAT_ = 4;
Else PACAT_=9;
```

_RFPAMOD — *Risk factor: Respondents that do not meet recommendations for moderate physical activity.* _RFPAMOD is derived from the variable PACAT_. (MEET HP 2010 OBJECTIVE 22-2: Increase the proportion of adults who engage regularly, preferably daily, in moderate physical activity for at least 30 minutes per day.)

1	Not At Risk	Respondents that report doing enough moderate or vigorous physical activity to meet the recommendations (PACAT_=1,2,3)
2	At Risk	Respondents that report doing insufficient moderate or vigorous physical activity to meet recommendations, or respondents that report doing no moderate or vigorous physical activity (PACAT_=4,5)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom PACAT_=9

SAS code:

```
     If PACAT_ = 1 then _RFPAMOD=1;
ELSE IF PACAT_ = 2 then _RFPAMOD=1;
ELSE IF PACAT_ = 3 then _RFPAMOD=1;
ELSE IF PACAT_ = 4 then _RFPAMOD=2;
ELSE IF PACAT_ = 5 then _RFPAMOD=2;
ELSE IF PACAT_ = 9 then _RFPAMOD=9;
```

Section 18: Physical Activity (continued)

_RFPAVIG *Risk factor: Respondents that do not meet recommendations for vigorous physical activity.* _RFPAVIG is derived from the variable PACAT_. (MEET HP 2010 OBJECTIVE #22-3: Increase the proportion of adults who engage in vigorous physical activity that promotes the development and maintenance of cardio-respiratory fitness 3 or more days per week for 20 or more minutes per occasion)

1	Not At Risk	Respondents that report doing enough vigorous physical activity to meet the recommendations (PACAT_=1,2)
2	At Risk	Respondents that report doing insufficient vigorous physical activity to meet recommendations, or respondents that report doing no vigorous physical activity (PACAT_=3,4,5)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom PACAT_=9

SAS code:

```
     If PACAT_ = 1 then _RFPAVIG=1;
ELSE IF PACAT_ = 2 then _RFPAVIG=1;
ELSE IF PACAT_ = 3 then _RFPAVIG=2;
ELSE IF PACAT_ = 4 then _RFPAVIG=2;
ELSE IF PACAT_ = 5 then _RFPAVIG=2;
ELSE IF PACAT_ = 9 then _RFPAVIG=9;
```

RFPAREC *Respondents that meet recommendations for moderate or vigorous physical activity.* This variable is derived from the variable PACAT.

1	Meet Recommendations	Respondents that report doing enough moderate or vigorous physical activity to meet the recommendations (PACAT_=1,2,3)
2	Insufficient	Respondents that report doing insufficient moderate or vigorous physical activity to meet recommendations (PACAT_=4)
3	No Activity	Respondents that report doing no moderate or vigorous physical activity (PACAT_=5)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom PACAT_=9

SAS code:

```
     If PACAT_ = 1 then _RFPAREC=1;
ELSE IF PACAT_ = 2 then _RFPAREC=1;
ELSE IF PACAT_ = 3 then _RFPAREC=1;
ELSE IF PACAT_ = 4 then _RFPAREC=2;
ELSE IF PACAT_ = 5 then _RFPAREC=3;
ELSE IF PACAT_ = 9 then _RFPAREC=9;
```

Section 18: Physical Activity (continued)

_RFNOPA *(New variable in 2003)* — *Respondents that report doing no physical activity or exercise.* _RFNOPA is derived from the variables _RFPAREC and _TOTINDA.

1	Not At Risk	Respondents that report doing some physical activity or exercise (_RFPAREC=1,2 or _TOTINDA=1)
2	At Risk	Respondents that report doing no moderate or vigorous physical activity or exercise (_RFPAREC=3 and _TOTINDA=2)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents for whom RFPAREC=3 and _TOTINDA=9 or RFPAREC=9 and _TOTINDA=2 or RFPAREC=9 and _TOTINDA=9

SAS code:

```
     IF _RFPAREC <= 2 THEN _RFNOPA=1;
ELSE IF _TOTINDA = 1 THEN _RFNOPA=1;
ELSE IF _RFPAREC = 3 AND _TOTINDA = 2 THEN _RFNOPA=2;
ELSE _RFNOPA=9;
```

Section 19: Veterans Status

There are no calculated variables for Section 19.

Section 20: HIV/AIDS

_AIDSTST — *Risk factor: Respondents less than 65 years old that have ever been tested for HIV.* _AIDSTST is derived from AGE and HIVTST3.

1	Not At Risk	Respondents with reported ages between18 and 64 that reported to have been tested for HIV (18<=AGE<=64 and HIVTST3=1)
2	At Risk	Respondents with reported ages between18 and 64 that did not report having been tested for HIV (18<=AGE<=64 and HIVTST3=2)
9	Don't Know/ Not Sure/ Refused	Respondents with reported ages between18 and 64 that reported they did not know if they had been tested for HIV, or those with reported ages between18 and 64 that refused to answer if they had been tested for HIV (18<=AGE<=64 and HIVTST3=7,9), or respondents that reported they did not know their age (AGE=07), or respondents that refused to report their age (AGE=9)
.	Missing	Respondents with missing responses for HIVTST3 (HIVTST3=.), or respondents with reported ages older than 64 (AGE > 64), or respondents with missing age responses (AGE=.)

SAS code:

```
IF 18 <= AGE <= 64 THEN DO;
IF HIVTST3=1 THEN _AIDSTST=1;
ELSE IF HIVTST3=2 THEN _AIDSTST=2;
ELSE IF HIVTST3 IN (7,9) THEN _AIDSTST=9;
ELSE IF HIVTST3=. THEN _AIDSTST=.;
END;
ELSE IF AGE IN (.,7,9) THEN _AIDSTST=9;
ELSE _AIDSTST=.;
```

Section 20: HIV/AIDS (continued)

_HIGHRSK *Risk factor: Respondents less than 65 years old that have ever participated in high-risk behavior.* _HIGHRSK is derived from AGE and HIVRISK2.

1	Not At Risk	Respondents with reported ages between18 and 64 that reported not having participated in high-risk behavior (18<=AGE<=64 and HIVRISK2=2)
2	At Risk	Respondents with reported ages between18 and 64 that reported having participated in high-risk behavior (18<=AGE<=64 and HIVRISK2=1)
9	Don't Know/ Not Sure/ Refused	Respondents with reported ages between18 and 64 that reported they did not if they had participated in high-risk behavior (18<=AGE<=64 and HIVRISK2=1), or respondents with reported ages between18 and 64 that refused to answer if they participated in high-risk behavior (18<=AGE<=64 and HIVRISK2=7,9), or respondents that reported they did not know their age (AGE=07), or respondents that refused to report their age (AGE=09), or respondents missing a response for age (AGE=.)
.	Missing	Respondents with reported ages between18 and 64 that were missing a response for HIVRISK2 (18<=AGE<=64 and HIVRISK2=.), or respondents with reported ages older than 64 (AGE > 64)

SAS code:

```
IF 18 <= AGE <= 64 THEN DO;
IF HIVRISK2=2 THEN _HIGHRSK=1;
ELSE IF HIVRISK2=1 THEN _HIGHRSK=2;
ELSE IF HIVRISK2 IN (7,9) THEN _HIGHRSK=9;
ELSE IF HIVRISK2=. THEN _HIGHRSK=.;
END;
ELSE IF AGE IN (.,7,9) THEN _HIGHRSK=9;
ELSE _HIGHRSK=.;
```

Section 20: HIV/AIDS (continued)

_STDCNDM *Risk factor: Respondents less than 65 years old that have ever been counseled by a doctor, nurse, or other health professional within the past 12 months on prevention of sexually transmitted diseases through condom use.* _STDCNDM is derived from AGE and PCSAIDS.

1	Not At Risk	Respondents with reported ages between18 and 64 that reported to have been counseled by a health professional within the past 12 months on prevention of sexually transmitted diseases through condom use (18<=AGE<=64 and PCSAIDS=1)
2	At Risk	Respondents with reported ages between18 and 64 that did not report having been counseled by a health professional within the past 12 months on prevention of sexually transmitted diseases through condom use (18<=AGE<=64 and PCSAIDS=2)
9	Don't Know/ Not Sure/ Refused	Respondents with reported ages between18 and 64 that did not know if they had been counseled by a health professional within the past 12 months on prevention of sexually transmitted diseases through condom use (18<=AGE<=64 and PCSAIDS=7), or respondents with reported ages between18 and 64 that refused to answer if they had been counseled by a health professional within the past 12 months on prevention of sexually transmitted diseases through condom use (18<=AGE<=64 and PCSAIDS=9), or respondents that reported they did not know their age (AGE=07), or respondents that refused to report their age (AGE=09), or respondents missing a response for age (AGE=.)
.	Missing	Respondents with reported ages between18 and 64 missing a response for PCSAIDS (18<=AGE<=64 and PCSAIDS =.) or respondents with reported ages older than 64 (AGE > 64)

SAS code:

```
IF 18 <= AGE <= 64 THEN DO;
IF PCSAIDS=1 THEN _STDCNDM=1;
ELSE IF PCSAIDS=2 THEN _STDCNDM=2;
ELSE IF PCSAIDS IN (7,9) THEN _STDCNDM=9;
ELSE IF PCSAIDS=. THEN _STDCNDM=.;
END;
ELSE IF AGE IN (.,7,9) THEN _STDCNDM=9;
ELSE _STDCNDM=.;
```