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_ Risk Factor: Fair or Poor general health. _RFHLTH_ is derived from GENHLTH. (New variable in 2003.)

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:**

```sas
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:**

```sas
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 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:

```sas
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:

```sas
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)/7;
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:**

```sas
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:**

```sas
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=.;
_FRTSERV _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:

\[
\text{IF ASTHMA2=1 AND ASTHNOW=1 THEN } \_\text{ASTHMST}=1; \\
\text{ELSE IF ASTHMA2=1 AND ASTHNOW=2 THEN } \_\text{ASTHMST}=2; \\
\text{ELSE IF ASTHMA2=2 THEN } \_\text{ASTHMST}=3; \\
\text{ELSE } \_\text{ASTHMST}=9;
\]

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)
.

SAS code:

\[
\text{IF AGE GE 65 THEN DO}; \\
\text{IF FLUSHOT=1 THEN } \_\text{FLUSHOT}=1; \\
\text{ELSE IF FLUSHOT=2 THEN } \_\text{FLUSHOT}=2; \\
\text{ELSE IF FLUSHOT IN (.,7,9) THEN } \_\text{FLUSHOT}=9; \\
\text{END}; \\
\text{ELSE IF AGE IN (.,7,9) THEN } \_\text{FLUSHOT}=9; \\
\text{ELSE } \_\text{FLUSHOT}=.;
\]
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)
.

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)

 РФSMOK2  Risk factor: Respondents that reported having smoked at least 100 cigarettes in their lifetime and currently smoke. РФSMOK2 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 РФSMOK2=2;
ELSE IF _SMOKER2 IN (3,4) THEN РФSMOK2=1;
ELSE РФSMOK2=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:**

```sas
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:**

```sas
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

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

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

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. _RFDRWM2 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

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;
   END;
ELSE _RFDRWM2=9;
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:

```sas
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:

```sas
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)

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

**SAS code:**

```sas
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 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. Don't Know/ Not Sure/ Refused/ Missing  
   Respondents who report they are of Hispanic origin (HISPANC2=1)

9. 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:**

```sas
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)**

<table>
<thead>
<tr>
<th>RACEG2</th>
<th>White/Hispanic race group. _RACEG2 is derived from RACE2.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>White only, Non-Hispanic</td>
</tr>
<tr>
<td>2</td>
<td>Non-White, Multiracial or Hispanic</td>
</tr>
<tr>
<td>9</td>
<td>Don't Know/ Not Sure/ Refused/ Missing</td>
</tr>
</tbody>
</table>

**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;
```

<table>
<thead>
<tr>
<th>RACEGR2</th>
<th>Five-level race/ethnicity category. _RACEGR2 is derived from RACE2.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>White only, Non-Hispanic</td>
</tr>
<tr>
<td>2</td>
<td>Black only, Non-Hispanic</td>
</tr>
<tr>
<td>3</td>
<td>Other Race only, Non-Hispanic</td>
</tr>
<tr>
<td>4</td>
<td>Multiracial, Non-Hispanic</td>
</tr>
<tr>
<td>5</td>
<td>Hispanic</td>
</tr>
<tr>
<td>9</td>
<td>Don't Know/ Not Sure/ Refused/ Missing</td>
</tr>
</tbody>
</table>

**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;
```

<table>
<thead>
<tr>
<th>CNRACE</th>
<th>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).</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-5</td>
<td>MRACEASC is between 1 and 5</td>
</tr>
<tr>
<td>0</td>
<td>MRACEASC is between 6 and 9</td>
</tr>
</tbody>
</table>

**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

_AGE5YR  Fourteen-level age category. _AGE5YR 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 _AGE5YR=1;
ELSE IF 25 LE AGE LE 29 THEN _AGE5YR=2;
ELSE IF 30 LE AGE LE 34 THEN _AGE5YR=3;
ELSE IF 35 LE AGE LE 39 THEN _AGE5YR=4;
ELSE IF 40 LE AGE LE 44 THEN _AGE5YR=5;
ELSE IF 45 LE AGE LE 49 THEN _AGE5YR=6;
ELSE IF 50 LE AGE LE 54 THEN _AGE5YR=7;
ELSE IF 55 LE AGE LE 59 THEN _AGE5YR=8;
ELSE IF 60 LE AGE LE 64 THEN _AGE5YR=9;
ELSE IF 65 LE AGE LE 69 THEN _AGE5YR=10;
ELSE IF 70 LE AGE LE 74 THEN _AGE5YR=11;
ELSE IF 75 LE AGE LE 79 THEN _AGE5YR=12;
ELSE IF 80 LE AGE LE 99 THEN _AGE5YR=13;
ELSE _AGE5YR=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 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);
    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;
  END;

HTM2 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  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  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  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.

<table>
<thead>
<tr>
<th>Minutes</th>
<th>Don't Know/ Not Sure/ Refused/ Missing</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-599</td>
<td>Respondents for whom VIGPATIM is not equal to 777, 999, or . and VIGPADAY is not equal to 77, 99, or .</td>
</tr>
<tr>
<td>.</td>
<td>Respondents for whom VIGPATIM=777, 999, or . or VIGPADAY =77, 99 or .</td>
</tr>
</tbody>
</table>

SAS code:

```sas
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.

<table>
<thead>
<tr>
<th>MODCAT_</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>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 &lt;= _MODPAMN &lt;= 599)</td>
</tr>
<tr>
<td>2</td>
<td>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)</td>
</tr>
<tr>
<td>3</td>
<td>No Activity  Respondents who report doing no moderate physical activity (MODPACT=2 OR _MODPAMN=0)</td>
</tr>
<tr>
<td>9</td>
<td>Don’t Know/ Not Sure/ Refused/ Missing  Respondents for whom MODPACT=,7,9 or MODPACT=1 and MODPADAY=,7,9 or MODPATIM=,7,9</td>
</tr>
</tbody>
</table>

SAS code:

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

VIGCAT_ is a new variable for 2003.

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 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 VIGPAMN 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 VIGPAMN=.,7,9 or VIGPATIM=.,7,9

SAS code:

```
IF VIGPACT=2 OR _VIGPAMN=0 THEN VIGCAT_=3;
ELSE IF (3 <= VIGPAMN <= 7 & 20 <= _VIGPAMN <= 599) THEN VIGCAT_=1;
ELSE IF VIGPACT=1 AND VIGPAMN NOTIN (.77,99) AND VIGPATIM NOTIN (.777,999) THEN VIGCAT_=2;
ELSE VIGCAT_=9;
```
### Section 18: Physical Activity (continued)

**PACAT_**  
*Physical Activity Categories.* PACAT_ is derived from the variables MODCAT_ and VIGCAT_.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PACAT_1</td>
<td>Meet Both</td>
</tr>
<tr>
<td>PACAT_2</td>
<td>Vigorous Only</td>
</tr>
<tr>
<td>PACAT_3</td>
<td>Moderate Only</td>
</tr>
<tr>
<td>PACAT_4</td>
<td>Insufficient Activity for Either Moderate or Vigorous</td>
</tr>
<tr>
<td>PACAT_5</td>
<td>No Activity</td>
</tr>
<tr>
<td>PACAT_9</td>
<td>Don’t Know/Not Sure/Refused/Missing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAS code:</th>
</tr>
</thead>
</table>
| 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.)

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_RFPAMOD_1</td>
<td>Not At Risk</td>
</tr>
<tr>
<td>_RFPAMOD_2</td>
<td>At Risk</td>
</tr>
<tr>
<td>_RFPAMOD_9</td>
<td>Don’t Know/Not Sure/Refused/Missing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAS code:</th>
</tr>
</thead>
</table>
| 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:

\[
\begin{align*}
&\text{If PACAT\_} = 1 \text{ then } _\text{RFPAVIG}=1; \\
&\text{ELSE IF PACAT\_} = 2 \text{ then } _\text{RFPAVIG}=1; \\
&\text{ELSE IF PACAT\_} = 3 \text{ then } _\text{RFPAVIG}=2; \\
&\text{ELSE IF PACAT\_} = 4 \text{ then } _\text{RFPAVIG}=2; \\
&\text{ELSE IF PACAT\_} = 5 \text{ then } _\text{RFPAVIG}=2; \\
&\text{ELSE IF PACAT\_} = 9 \text{ then } _\text{RFPAVIG}=9; \\
\end{align*}
\]

_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:

\[
\begin{align*}
&\text{If PACAT\_} = 1 \text{ then } _\text{RFPAREC}=1; \\
&\text{ELSE IF PACAT\_} = 2 \text{ then } _\text{RFPAREC}=1; \\
&\text{ELSE IF PACAT\_} = 3 \text{ then } _\text{RFPAREC}=1; \\
&\text{ELSE IF PACAT\_} = 4 \text{ then } _\text{RFPAREC}=2; \\
&\text{ELSE IF PACAT\_} = 5 \text{ then } _\text{RFPAREC}=3; \\
&\text{ELSE IF PACAT\_} = 9 \text{ then } _\text{RFPAREC}=9; \\
\end{align*}
\]
Section 18: Physical Activity (continued)

_RFNOPA  
Respondents that report doing no physical activity or exercise. _RFNOPA is derived from the variables _RFPAREC and _TOTINDA.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Not At Risk</td>
</tr>
<tr>
<td>2</td>
<td>At Risk</td>
</tr>
<tr>
<td>9</td>
<td>Don’t Know/</td>
</tr>
<tr>
<td></td>
<td>Not Sure/</td>
</tr>
<tr>
<td></td>
<td>Refused/</td>
</tr>
<tr>
<td></td>
<td>Missing</td>
</tr>
</tbody>
</table>

_New variable in 2003_

SAS code:

```sas
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.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Not At Risk</td>
</tr>
<tr>
<td>2</td>
<td>At Risk</td>
</tr>
<tr>
<td>9</td>
<td>Don’t Know/</td>
</tr>
<tr>
<td></td>
<td>Not Sure/</td>
</tr>
<tr>
<td></td>
<td>Refused/</td>
</tr>
<tr>
<td></td>
<td>Missing</td>
</tr>
</tbody>
</table>

SAS code:

```sas
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 between 18 and 64 that reported not having participated in high-risk behavior (18<=AGE<=64 and HIVRISK2=2)

2  At Risk  Respondents with reported ages between 18 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 between 18 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 between 18 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 that refused to report their age (AGE=.)

Missing  Respondents with reported ages between 18 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 between 18 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 between 18 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 between 18 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 between 18 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 between 18 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=9 THEN _STDCNDM=9;
   ELSE _STDCNDM=.;
END;
ELSE IF AGE IN (.,7,9) THEN _STDCNDM=9;
ELSE _STDCNDM=.;