BRFSS
Behavioral Risk Factor Surveillance System

2007

Behavioral Risk Factor Surveillance System

Calculated Variables

(Version #1 - Revised: January 15, 2008)

CENTERS FOR DISEASE
CONTROL AND PREVENTION

INDRODUCTION:

This document provides information on calculated variables and risk factors for the 2006 Behavioral Risk Factor Survey. 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, which are not inclued in this document.

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: WTKG2 is derived from the WEIGHT2 variable in the survey. WTKG2 is then used to calculate the body mass index variable (_BMI4). 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: _BMI4.) 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 regroup non-continuous variables to simplify analyses. The common focus of these variables is on health behaviors that are associated with a "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 may or may not work as is in other statistical programs.

<u>NEW CALCULATED VARIABLES FOR 2007</u>

_HCVU65 was added in 2007.

Section 1: Health Status

_RFHLTH *Calculated variable for adults with good or better health.* _RFHLTH is derived from GENHLTH.

1	Good or Better Health	Respondents that reported having excellent, very good or good health. (GENHLTH =1, 2, 3)
2	Fair or Poor Health	Respondents that reported having fair or poor health. (GENHLTH =4, 5)
9	Don't know/ Not Sure Or Refused/ Missing	Respondents that reported they didn't know, refused to answer, or had missing responses for the general health status question. (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: Healthy Days - Health-Related Quality of Life

There are no calculated Variables for Section 2.

Section 3: Health Care Access

_HCVU65 *Calculated variable for respondents aged 18-64 that have any form of health care coverage.* _HCVU65 is derived from AGE and HLTHPLAN.

1	Have health car coverage	Respondents that reported having health care coverage (18 <= AGE <= 64 and HLTHPLAN = 1)
2	Do not have health car coverage	Respondents that reported not having health care coverage (18 <= AGE <= 64 and HLTHPLAN = 2)
9	Don't know/ Not Sure, Refused or Missing	Respondents that reported that reported they didn´t know, were not sure, refused to report or had missing responses for having health care coverage (18 <= AGE <= 64 and HLTHPLAN = 7, 9, or missing or AGE => 65)

SAS Code:

```
IF 18 LE AGE LE 64 THEN DO;
 IF HLTHPLAN=1 THEN _HCVU65=1;
 ELSE IF HLTHPLAN=2 THEN _HCVU65=2;
 ELSE _HCVU65=9;
 END;
 ELSE _HCVU65 = 9;
```

Section 4: Exercise

_TOTINDA *Calculated variable for adults that report doing physical activity or exercise during the past 30 days other than their regular job.* _TOTINDA is derived from EXERANY2.

1	Had physical activity or exercise	Respondents that reported doing any physical activity or exercise. (EXERANY2=1)
2	No physical activity or exercise in last 30 days	Respondents that report doing no physical activity or exercise. (EXERANY2=2)
9	Don't know/ Refused/ Missing	Respondents that reported they didn't know, refused to answer, and those with missing responses for the physical activity/exercise question. (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 5: Diabetes

There are no calculated Variables for Section 5.

Section 6: Hypertension Awareness

_RFHYPE5 *Calculated variable for adults who have been told they have high blood pressure by a doctor, nurse, or other health professional.* _RFHYPE5 is derived from BPHIGH4.

1	No	Respondents that were not told their pressure is high by a health professional (BPHIGH4=2,3,or 4)
2	Yes	Respondents that were told their pressure is high by a health professional (BPHIGH4=1)
9	Don't know/ Not Sure/ Refused/ Missing	Respondents that reported they didn´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 (BPHIGH4=7,9,or missing)

SAS Code:
```
IF BPHIGH4 = 1 THEN _RFHYPE5=2;
 ELSE IF BPHIGH4 = 2 THEN _RFHYPE5=1;
 ELSE IF BPHIGH4 = 3 THEN _RFHYPE5=1;
 ELSE IF BPHIGH4 = 4 THEN _RFHYPE5=1;
 ELSE IF BPHIGH4 IN (.,7,9) THEN _RFHYPE5=9 ;
```

Section 7: Cholesterol Awareness

_CHOLCHK *Calculated variable for cholesterol check within past five years.* _CHOLCHK is derived from BLOODCHO and CHOLCHK.

1	Had cholesterol checked in past 5 years.	Respondents that reported having had their cholesterol checked within the past five years (BLOODCHO=1 and CHOLCHK=1,2,or 3)
2	Did not have cholesterol checked in past 5 years	Respondents that reported not having had their cholesterol checked within the past five years (BLOODCHO=1 and CHOLCHK=4)
3	Have never had cholesterol checked	Respondents that reported never having had their cholesterol checked (BLOODCHO=2)
9	Don't know/ Not Sure Or Refused/ Missing	Respondents that reported they didn´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,or missing and CHOLCHK=7,9,or missing)

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

Section 7: Cholesterol Awareness

_RFCHOL *Calculated variable for adults who have had their cholesterol checked and have been told by a doctor, nurse, or other health professional that it was high.* _RFCHOL is derived from BLOODCHO and TOLDHI2.

1	No	Respondents that reported having had their blood cholesterol checked but had not been told it was high (BLOODCHO=1 and TOLDHI2=2)
2	Yes	Respondents that reported having 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 Or Refused/ Missing	Respondents that reported they didn´t know if they had their blood cholesterol checked, those that reported they didn´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=1 and TOLDHI2=7,9,or missing)
.	Missing	Respondents that reported they have not had their blood cholesterol checked (BLOODCHO=2,7,9,or missing)

SAS Code:
```
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 8: Cardiovascular Disease Prevalence

There are no calculated Variables for Section 8.

Section 9: Asthma

_LTASTHM *Calculated variable for adults who have ever been told they have asthma. _LTASTHM is derived from ASTHMA2.*

1	No	Respondents that have not been told by a doctor, nurse or health professional that they had asthma. (ASTHMA2=2)
2	Yes	Respondents that have been told by a doctor, nurse or health professional that they had asthma. (ASTHMA2=1)
9	Don't know/ Not Sure Or Refused/ Missing	Respondents that reporteded 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;
```

Section 9: Asthma

_CASTHMA *Calculated variable for adults who have been told they currently have asthma. _CASTHMA is derived from ASTHMA2 and ASTHNOW.*

1	No	Respondents that have not been told by a doctor, nurse or health professional that they had asthma or do not still have asthma. (ASTHMA2=2 or ASTHMA2=1 and ASTHNOW=2)
2	Yes	Respondents that have been told by a doctor, nurse or health professional that they had asthma and that they still have asthma. (ASTHMA2=1 and ASTHNOW=1)
9	Don't know/ Not Sure Or Refused/ Missing	Respondents that reporteded 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

_ASTHMST *Calculated variable for computed asthma status. _ASTHMST is derived from ASTHMA2 and ASTHNOW.*

1	Current	Respondents that have been told by a doctor, nurse or health professional that they had asthma and that they still have asthma. (ASTHMA2=1and ASTHNOW=1)
2	Former	Respondents that have been told by a doctor, nurse or health professional that they had asthma but do not still have asthma. (ASTHMA2=1 and ASTHNOW=2)
3	Never	Respondents that have not been told by a doctor, nurse or health professional that they had asthma. (ASTHMA2=2)
9	Don't know/ Not Sure Or Refused/ Missing	Respondents that reporteded 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

_FLSHOT3 *Calculated variable for adults aged 65+ who have had a flu shot within the past year. _FLSHOT3 is derived from FLUSHOT3.*

1	Yes	Respondents aged 65 or older that reporteded having a flu shot within the past 12 months. (AGE >= 65 and FLUSHOT3=1)
2	No	Respondents aged 65 or older that reporteded not having had a flu shot within the past 12 months. (AGE >= 65 and FLUSHOT3=2)
9	Don't know/ Not Sure Or Refused/ Missing	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 >= 65 and FLUSHOT3=7,9, or missing or AGE=7,9, or missing)
.	Age Less Than 65	Respondents aged 18-64. (18 <= AGE <= 64)

SAS Code:
```
IF AGE GE 65 THEN DO;
 IF FLUSHOT3=1 THEN _FLSHOT3=1;
 ELSE IF FLUSHOT3=2 THEN _FLSHOT3=2;
 ELSE IF FLUSHOT3 IN (.,7,9) THEN _FLSHOT3=9;
 END;
 ELSE IF AGE IN (.,7,9) THEN _FLSHOT3=9;
 ELSE _FLSHOT3=.;
```

Section 10: Immunization

_PNEUMO2 *Calculated variable for adults aged 65+ who have ever had a pneumonia vaccination.*
   _PNEUMO2 is derived from PNEUVAC3.

1	Yes	Respondents aged 65 or older that reporteded having a pneumonia shot. (AGE >= 65 and FLUSHOT3=1)
2	No	Respondents aged 65 or older that reporteded not having had a pneumonia shot. (AGE >= 65 and FLUSHOT3=2)
9	Don't know/ Not Sure Or Refused/ Missing	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 >= 65 and PNEUVAC3=7,9, or missing or AGE=7,9, or missing)
.	Age Less Than 65	Respondents aged 18-64. (18 <= AGE <= 64)

SAS Code:
```
IF AGE GE 65 THEN DO;
 IF PNEUVAC3=1 THEN _PNEUMO2=1;
 ELSE IF PNEUVAC3=2 THEN _PNEUMO2=2;
 ELSE IF PNEUVAC3 IN (.,7,9) THEN _PNEUMO2=9;
 ELSE _PNEUMO2=.;
 END;
 ELSE IF AGE IN (.,7,9) THEN _PNEUMO2=9;
 ELSE _PNEUMO2=.;
```

Section 11: Tobacco Use

_SMOKER3 *Calculated variable for four-level smoker status: everyday smoker, someday smoker, former smoker, non-smoker. _SMOKER3 is derived from SMOKE100 and SMOKDAY2.*

1	Current smoker - now smokes every day	Respondents that reported having smoked at least 100 cigarettes in their lifetime and now smoke every day. (SMOKE100=1 and SMOKDAY2=1)
2	Current smoker - now smokes some days	Respondents that reported having smoked at least 100 cigarettes in their lifetime and now smoke some days. (SMOKE100=1 and SMOKDAY2=2)
3	Former smoker	Respondents that reported having smoked at least 100 cigarettes in their lifetime and currently do not smoke. (SMOKE100=1 and SMOKDAY2=3)
4	Never smoked	Respondents that reported they had not smoked at least 100 cigarettes in their lifetime. (SMOKE100=2)
9	Don't know/ Refused/ Missing	Respondents that reporeded 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 SMOKDAY2=7, 9, missing)

SAS Code:
```
IF SMOKE100=2 THEN _SMOKER3=4;
 ELSE IF SMOKE100=1 THEN DO;
 IF SMOKDAY2=1 THEN _SMOKER3=1;
 ELSE IF SMOKDAY2=2 THEN _SMOKER3=2;
 ELSE IF SMOKDAY2 = 3 THEN _SMOKER3=3;
 ELSE _SMOKER3=9;
 END;
 ELSE _SMOKER3=9;
```

Section 11: Tobacco Use

_RFSMOK3 *Calculated variable for adults who are current smokers. _RFSMOK3 is derived from _SMOKER3.*

1	No	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. (_SMOKER3=3, 4)
2	Yes	Respondents that reported having smoked at least 100 cigarettes in their lifetime and currently smoke. (_SMOKER3=1, 2)
9	Don't know/ Refused/ Missing	Respondents that reporeded 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. (_SMOKER3=9)

SAS Code:
```
IF _SMOKER3 IN (1,2) THEN _RFSMOK3=2;
 ELSE IF _SMOKER3 IN (3,4) THEN _RFSMOK3=1;
 ELSE _RFSMOK3=9;
```

Section 12: Demographics

MRACEORG *Calculated variable for mrace with trailing 7,8,9s 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.

1 - 654321	Race code(s)	Respondents reported race or races in original order (MRACE=1, 2, 3, 4, 5, 6, or MRACE > 10)
7	Don't know/ Not sure	Respondents that reported they didn´t know, or weren´t sure of their race. (MRACE=7)
9	Refused	Respondents that refused to give their race. (MRACE=9)
	SAS Code:	

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

Section 12: Demographics

MRACEASC *Calculated variable for mrace with 7,8,9s removed, in ascending order.* MRACEASC is derived from MRACEORG. The values that make up MRACEORG are sorted from smallest to largest.

1 - 123456	Race code(s)	Respondents reported race or races in ascending order (MRACEORG=1, 2, 3, 4, 5, 6, or MRACEORG > 10)
7	Don't know/ Not sure	Respondents that reported they didn´t know, or weren´t sure of their race. (MRACEORG=7)
9	Refused	Respondents that refused to give their race. (MRACEORG=9)
	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 12: Demographics

_PRACE   *Calculated variable for 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.

1	White	Respondents that reported their race as white. (MRACE=1 or MRACEASC>11 and ORACE2=1)
2	Black or African American	Respondents that reported their race as black. (MRACE=2 or MRACEASC>11 and ORACE2=2)
3	Asian	Respondents that reported their race as Asian. (MRACE=3 or MRACEASC>11 and ORACE2=3)
4	Native Hawaiian or other Pacific Islander	Respondents that reported their race as Native Hawaiian or Pacific Islander . (MRACE=4 or MRACEASC>11 and ORACE2=4)
5	American Indian or Alaskan Native	Respondents that reported 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 that reported they are of more than one race group but did not report a preference or the preferred race is missing (MRACEASC>11 and ORACE2=7 or 9)
8	Multiracial but preferred race not asked	Respondents that reported 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= Missing)
77	Don't know/ Not sure	Respondents that reported they didn´t 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 12: Demographics

_MRACE *Calculated variable for 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.

1	White only	Respondents that reported they are white. (MRACEASC=1)
2	Black or African American only	Respondents that report they are black. (MRACEASC=2)
3	Asian Only	Respondents that reported they are Asian. (MRACEASC=3)
4	Native Hawaiian or other Pacific Islander only	Respondents that reported they are native Hawaiian or Pacific Islander. (MRACEASC=4)
5	American Indian or Alaskan Native only	Respondents that reported they are American Indian or Alaska Native. (MRACEASC=5)
6	Other race only	Respondents that reported they are of some other race group not listed in the question responses. (MRACEASC=6)
7	Multiracial	Respondents that reported they are of more than one race group but do not specify a preferred race. (MRACEASC>11 and ORACE2=7, 8, 9, or missing)
77	Don't know/ Not sure	Respondents that reported they did not know their race. (MRACEASC=7)
99	Refused	Respondents that 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 12: Demographics

_RACEG2 *Calculated variable for white hispanic race group.* _RACEG2 is derived from RACE2.

1	Non-Hispanic White	Respondents that reported they are white and not of Hispanic origin. (RACE2=1)
2	Non-White or Hispanic	Respondents that reported they are non-white or of Hispanic origin. (RACE2=2, 3, 4, 5, 6, 7, 8)
9	Don't know/ Not sure/ Refused	Respondents that reported they did not know, or refused to give their race and are not of Hispanic origin or did not know, or refused to answer if they are of Hispanic origin. (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;
```

Section 12: Demographics

_RACEGR2 *Calculated variable for five-level race*
ethnicity category. _RACEGR2 is derived from RACE2.

1	White only, Non-Hispanic	Respondents that reported they are white and not of Hispanic origin. (RACE2=1)
2	Black only, Non-Hispanic	Respondents that reported they are black and not of Hispanic origin. (RACE2=2)
3	Other race only, Non-Hispanic	Respondents that reported they are not white and not black and not of Hispanic origin. (RACE2=3, 4, 5, 6)
4	Multiracial, Non-Hispanic	Respondents that reported being multiracial but not of Hispanic origin. (RACE2=7)
5	Hispanic	Respondents that reported they are of Hispanic origin. (RACE2=8)
9	Don't know/ Not sure/ Refused	Respondents that reported they did not know, or refused to give their race and are not of Hispanic origin or did not know, or refused to answer if they are of Hispanic origin. (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=7 THEN _RACEGR2=4;
 ELSE IF RACE2=8 THEN _RACEGR2=5;
 ELSE IF RACE2=9 THEN _RACEGR2=9;
```

Section 12: Demographics

_RACE_G *Calculated variable for race groups used for internet prevalence tables.* _RACE_G is derived from _RACEGR2.

1	White - Non-Hispanic	Respondents that reported they are white and not of Hispanic origin. (_RACEGR2=1)
2	Black - Non-Hispanic	Respondents that reported they are black and not of Hispanic origin. (_RACEGR2=2)
3	Hispanic	Respondents that reported that they are of Hispanic origin. (_RACEGR2=5)
4	Other race only, Non-Hispanic	All other respondents with valid race responses except for those reporting multiracial or Hispanic origins. (_RACEGR2=3)
5	Multiracial, Non-Hispanic	All other respondents reporting multiracial but non-Hispanic origin. (_RACEGR2=4)
.	Don't know/ Not sure/ Refused component question	Respondents with don´t know, refused or missing values for _RACEGR2. (_RACEGR2=9, missing)

SAS Code:
```
IF _RACEGR2 = 1 THEN _RACE_G = 1;
 ELSE IF _RACEGR2 = 2 THEN _RACE_G = 2;
 ELSE IF _RACEGR2 = 3 THEN _RACE_G = 4;
 ELSE IF _RACEGR2 = 4 THEN _RACE_G = 5;
 ELSE IF _RACEGR2 = 5 THEN _RACE_G = 3;
```

Section 12: Demographics

_CNRACE *Calculated variable for number of census race categories chosen.* _CNRACE is derived from MRACEASC and is equal to the number of "census" race categories chosen.

0	Other/ do not know/ refused	No census race categories chosen by the respondent. (6 <= MRACEASC <= 9)
1	1 category chosen	Onecensus race category chosen by the respondent. (MRACEASC=1)
2	2 category chosen	Two census race categories chosen by the respondent. (MRACEASC=2)
3	3 category chosen	Three census race categories chosen by the respondent. (MRACEASC=3)
4	4 category chosen	Four census race categories chosen by the respondent. (MRACEASC=4)
5	5 category chosen	Five census race categories chosen by the respondent. (MRACEASC=5)

SAS Code:

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

Section 12: Demographics

_CNRACEC *Calculated variable for number of census race categories chosen, collapsed.* _CNRACEC is derived from _CNRACE.

1	One category chosen	One census race category chosen by the respondent. (_CNRACE=1)
2	Two or more categories chosen	Two or more census race categories chosen by the respondent. (_CNRACE>1)
.	_CNRACE = 0 or missing	No census race categories chosen by the respondent. (_CNRACE=0)

SAS Code:

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

Section 12: Demographics

RACE2   *Calculated variable for 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 that reported they are white and not of Hispanic origin. (_MRACE=1 and HISPANC2=2)
2	Black only, non-Hispanic	Respondents that reported they are black and not of Hispanic origin. (_MRACE=2 and HISPANC2=2)
3	Asian only, non-Hispanic	Respondents that reported they are Asian and not of Hispanic origin. (_MRACE=3 and HISPANC2=2)
4	Native Hawaiian or other Pacific Islander only, No	Respondents that reported they are Native Hawaiian or Pacific Islander and not of Hispanic origin. (_MRACE=4 and HISPANC2=2)
5	American Indian or Alaskan Native only, Non-Hispan	Respondents that reported they are American Indian or Alaska Native and not of Hispanic origin. (_MRACE=5 and HISPANC2=2)
6	Other race only, non-Hispanic	Respondents that reported they are of some other race group not listed in the question responses and are not of Hispanic origin. (_MRACE=6 and HISPANC2=2)
7	Multiracial, non-Hispanic	Respondents that reported they are of more than one race group and are not of Hispanic origin. (_MRACE=7 and HISPANC2=2)
8	Hispanic	Respondents that reported they are of Hispanic origin. (HISPANC2=1)
9	Don't know/ Not sure/ Refused	Respondents that reported they did not know, or refused to give their race and are not of Hispanic origin or did not know, 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;
```

Section 12: Demographics

_AGEG5YR *Calculated variable for fourteen-level age category.* _AGEG5YR is derived from AGE.

1	Age 18 to 24	Respondents with reported age between 18 and 24 years (18 <= AGE <= 24)
2	Age 25 to 29	Respondents with reported age between 25 and 29 years (25 <= AGE <= 29)
3	Age 30 to 34	Respondents with reported age between 30 and 34 years (30 <= AGE <= 34)
4	Age 35 to 39	Respondents with reported age between 35 and 39 years (35 <= AGE <= 39)
5	Age 40 to 44	Respondents with reported age between 40 and 44 years (40 <= AGE <= 44)
6	Age 45 to 49	Respondents with reported age between 45 and 49 years (45 <= AGE <= 49)
7	Age 50 to 54	Respondents with reported age between 50 and 54 years (50 <= AGE <= 54)
8	Age 55 to 59	Respondents with reported age between 55 and 59 years (55 <= AGE <= 59)
9	Age 60 to 64	Respondents with reported age between 60 and 64 years (60 <= AGE <= 64)
10	Age 65 to 69	Respondents with reported age between 65 and 69 years (65 <= AGE <= 69)
11	Age 70 to 74	Respondents with reported age between 70 and 74 years (70 <= AGE <= 74)
12	Age 75 to 79	Respondents with reported age between 75 and 79 years (75 <= AGE <= 79)
13	Age 80 or older	Respondents with reported age between 80 and 99 years (80 <= AGE <= 99)
14	Don't know/ Refused/ Missing	Respondents that reported they didn´t know, were not sure, refused to report or had missing responses for their age. (AGE=7, 9, missing)

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 12: Demographics

_AGE65YR *Calculated variable for two-level age category.* _AGE65YR is derived from AGE.

1	Age 18 to 64	Respondents with reported ages 18–64. (18 <= AGE <=64)
2	Age 65 or older	Respondents with reported ages 65–99. (65 >= AGE >= 99)
3	Don't know/ Refused/ Missing	Respondents that reported they didn´t know, were not sure, refused, or had a missing value for AGE. (AGE=7,9,or missing)

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 12: Demographics

_AGE_G   *Calculated variable for six-level imputed age category. _AGE_G is derived from _IMPAGE (imputed age).*

1	Age 18 to 24	Respondents with imputed ages between 18–24 years of age. (18 <= _IMPAGE <= 24)
2	Age 25 to 34	Respondents with imputed ages between 25–34 years of age. (25 <= _IMPAGE <= 34)
3	Age 35 to 44	Respondents with imputed ages between 35–44 years of age. (35 <= _IMPAGE <= 44)
4	Age 45 to 54	Respondents with imputed ages between 45–54 years of age. (45 <= _IMPAGE <= 54)
5	Age 55 to 64	Respondents with imputed ages between 55–64 years of age. (55 <= _IMPAGE <= 64)
6	Age 65 or older	Respondents with imputed ages between 65–99 years of age. (_IMPAGE => 65)

SAS Code:
```
IF (18<=_IMPAGE<=24) THEN _AGE_G = 1;
 ELSE IF (25<=_IMPAGE<=34) THEN _AGE_G = 2;
 ELSE IF (35<=_IMPAGE<=44) THEN _AGE_G = 3;
 ELSE IF (45<=_IMPAGE<=54) THEN _AGE_G = 4;
 ELSE IF (55<=_IMPAGE<=64) THEN _AGE_G = 5;
 ELSE IF (_IMPAGE >= 65) THEN _AGE_G = 6;
```

Section 12: Demographics

HTIN3   *Calculated variable for reported height in inches. HTIN3 is derived from HEIGHT2. HTIN3 is calculated by adding the foot portion of HEIGHT2 multiplied by 12, to the inch portion.*

1 - 998	Height in inches	Respondents calculated height in inches. (HTIN3=(HTM3x100) ÷ 2.54 or HTIN3=(height in feet x 12) + height in inches)
999	Don't know/ Refused/ Missing	Respondents that reported they didn´t know, were not sure, refused to report or had missing responses for their height. (HEIGHT3=777, 999, 7777, 9999 or missing)

SAS Code:
```
** CREATE HEIGHT1 CHARACTER VARIABLE **;
 HEIGHT1=PUT(HEIGHT3,4.);
 IF HEIGHT3 NOT IN (777,999,7777,9999,.) THEN DO;
 IF 1 LE HEIGHT3 LT 800 and 0 LE
(INPUT((substr(HEIGHT1,3,2)),2.)) LE 11 THEN DO;
HTIN3=(INPUT((substr(HEIGHT1,3,2)),2.)) +
((INPUT((substr(HEIGHT1,2,1)),1.))*12);
 END;
 ELSE IF 9000 LT HEIGHT3 LT 9242 THEN DO;
 HTIN3=input(((HEIGHT3 - 9000)/2.54),3.0);
 END;
 END;
```

Section 12: Demographics

HTM3	*Calculated variable for reported height in meters.* HTM3 is derived from the variable HTIN3 by multiplying HTIN3 by 2.54 cm per in and dividing by 100 cm per meter.	
1 - 998	Height in meters [2 implied decimal places]	Respondents reported or calculated height in meters. (HTM3=(HTIN3 x 2.54) ÷ 100 or HTM3 = (HEIGHT3 - 9000) ÷ 100)
999	Don't know/ Refused/ Missing	Respondents that reported they didn´t know, were not sure, refused to report or had missing responses for their height. (HEIGHT3=777, 999, 7777, 9999 or missing)

SAS Code:

```
** CONVERSION FACTOR = 39.3701 in/M **;
 IF HEIGHT3 NOT IN (777,999,7777,9999,.) THEN DO;
 IF 1 LE HEIGHT3 LT 800 and 0 LE
(INPUT((substr(HEIGHT1,3,2)),2.)) LE 11 THEN DO;
 HTM3 = (HTIN3 * 2.54) / 100;
 END;
 ELSE IF 9000 LT HEIGHT3 LT 9242 THEN DO;
HTM3 = (HEIGHT3 - 9000)/100;
 END;
 END;
```

Section 12: Demographics

WTKG2	*Calculated variable for reported weight in kilograms.* WTKG2 is derived from WEIGHT2 by dividing WEIGHT2 by 2.2 kg per lb.	
1 - 99998	Weight in kilograms [2 implied decimal places]	Respondents reported or calculated weight in kilograms. (WTKG2=WEIGHT2 ÷ 2.2 or WEIGHT2 - 9000)
99999	Don't know/ Refused/ Missing	Respondents that reported they didn´t know, were not sure, refused to report or had missing responses for their weight. (WEIGHT2=777, 999, 7777, 9999 or missing)

SAS Code:

```
** CONVERSION FACTOR = 2.2046 kg/lb **;
 IF WEIGHT2 NOT IN (777,999,7777,9999,.) THEN DO;
 IF 0001 LE WEIGHT2 < 9000 THEN DO;
 WTKG2=WEIGHT2/2.2;
 END;
 ELSE IF WEIGHT2 > 9000 THEN DO;
 WTKG2=WEIGHT2-9000;
 END;
 END;
```

Section 12: Demographics

_BMI4   *Calculated variable for body mass index (bmi). _BMI4 is derived from WTKG2 and HTM3. It is calculated by dividing WTKG2 by HTM3².*

1 - 9998	1 or greater	Respondents calculated body mass index (BMI) {units=kilograms per meter squared}. (_BMI4 = WTKG2 / (HTM3xHTM3))
9999	Don't know/ Refused/ Missing	Respondents that had a missing value for their height in meters or weight in kilograms. (WTKG2=missing or HTM3=missing)

SAS Code:

```
IF (WTKG2 NOTIN (.)) AND (HTM3 NOTIN (.)) THEN _BMI4=WTKG2/(HTM3
** 2);
 ELSE _BMI4=.;
 _BMI4=ROUND(_BMI4,.01);
 IF _BMI4 GT 99.98 THEN _BMI4=99.98;
 ELSE IF _BMI4=. THEN _BMI4=99.99;
```

Section 12: Demographics

_BMI4CAT *Calculated variable for three-categories of body mass index (bmi). _BMI4CAT is derived from _BMI4.*

1	Neither overweight nor obese	Respondents not classified as overweight or obese based on body mass index. (_BMI4 < 25.00)
2	Overweight	Respondents classified as overweight based on body mass index. (25.00 <= _BMI4 < 30.00)
3	Obese	Respondents classified as obese based on body mass index. (30.00 <= _BMI4 < 99.99)
9	Don't know/ Refused/ Missing	Respondents with an unknown, refused, or missing value for body mass index. (_BMI4=99.99)

SAS Code:

```
IF (0.00 LE _BMI4 < 25.00) THEN _BMI4CAT=1;
 ELSE IF (25.00 LE _BMI4 < 30.00) THEN _BMI4CAT=2;
 ELSE IF (30.00 LE _BMI4 < 99.99) THEN _BMI4CAT=3;
 ELSE IF (_BMI4 = 99.99) THEN _BMI4CAT=9;
```

Section 12: Demographics

_RFBMI4 *Calculated variable for adults who have a body mass index greater than 25.00 (overweight or obese).* _RFBMI4 is derived from _BMI4.

1	No	Respondents not classified as overweight or obese based on body mass index. (_BMI4 < 25.00)
2	Yes	Respondents classified as overweight or obese based on body mass index. (25.00 <= _BMI4 < 99.99)
9	Don't know/ Refused/ Missing	Respondents with an unknown, refused, or missing value for body mass index. (_BMI4=99.99)

SAS Code:

```
IF (0.00 LE _BMI4 < 25.00) THEN _RFBMI4=1;
 ELSE IF (25.00 <=  _BMI4 < 99.99) THEN _RFBMI4=2;
 ELSE IF (_BMI4 = 99.99) THEN _RFBMI4=9;
** Round off HTM3, WTKG2 and _BMI4 to 2 decimal places and remove
the decimal **;
 HTIN3 = round(HTIN3,1);
 HTM3 = round((HTM3*100),1);
 WTKG2 = round((WTKG2*100),1);
 _BMI4 = ROUND((_BMI4*100),1);
 IF HTIN3=. THEN HTIN3=999;
IF HTM3=. THEN HTM3=999;
 IF WTKG2=. THEN WTKG2=99999;
```

Section 12: Demographics

_CHLDCNT *Calculated variable for number of children in household.* _CHLDCNT is derived from CHILDREN.

1	No children in household	Respondents that reported having no children. (CHILDREN=88)
2	One child in household	Respondents that reported having one child. (CHILDREN=1)
3	Two children in household	Respondents that reported having two children. (CHILDREN=2)
4	Three children in household	Respondents that reported having three children. (CHILDREN=3)
5	Four children in household	Respondents that reported having four children. (CHILDREN=4)
6	Five or more children in household	Respondents that reported having five or more children. ($5 <=$ CHILDREN < 87)
9	Don't know/ Not sure/ Missing	Respondents that reported they didn´t know, were not sure, refused or had a missing value for CHILDREN. (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;
 ELSE IF CHILDREN = . THEN _CHLDCNT = 9;
```

Section 12: Demographics

_EDUCAG *Calculated variable for level of education completed.* _EDUCAG is derived from EDUCA.

1	Did not graduate High School	Respondents that reported they did not graduate high school. (EDUCA=1,2,3)
2	Graduated High School	Respondents that reported they graduated high school. (EDUCA=4)
3	Attended College or Technical School	Respondents that reported they attended college or technical school. (EDUCA=5)
4	Graduated from College or Technical School	Respondents that reported they graduated from college or technical school. (EDUCA=6)
9	Don't know/ Not sure/ Missing	Respondents that reported they did´t know, were not sure, refused, or had a missing value for EDUCA. (EDUCA=9, 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 12: Demographics

_INCOMG *Calculated variable for income categories.* _INCOMG is derived from INCOME2.

1	Less than $15,000	Respondents whos reported income is less than $15,000. (INCOME2=1,2)
2	$15,000 to less than $25,000	Respondents whos reported income is $15,000 to less than $25,000. (INCOME2=3,4)
3	$25,000 to less than $35,000	Respondents whos reported income is $25,000 to less than $35,000. (INCOME2=5)
4	$35,000 to less than $50,000	Respondents whos reported income is $35,000 to less than $50,000. (INCOME2=6)
5	$50,000 or more	Respondents whos reported income is $50,000 or more. (INCOME2=7,8)
9	Don't know/ Not sure/ Missing	Respondents that refused to answer, didn´t know or had a missing value for INCOME2. (INCOME2=77,99, 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 13: Alcohol Consumption

DROCDY2_ *Calculated variable for drink-occassions-per-day.* DROCDY2_ is derived from ALCDAY4 by dividing the ALCDAY4 variable by 7 days per week or 30 days per month.

0	No Drink-Occasions per day	Respondents reported no occasions per day that they consumed alcohol. (ALCDAY4=888 or DRNKANY4=2)
1 - 899	Drink-Occasions per day	Respondents reported number of occasions per day that they consumed alcohol. (ALCDAY4 not equal to 777, 888, 999, or missing and DRNKANY4 not equal to 2, 7, 9, or missing)
900	Don't know/ Not Sure Or 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. (ALCDAY4=777, 999, or missing or DRNKANY4=7, 9, or missing)

SAS Code:

```
IF DRNKANY4 NOTIN (.,2,7,9) AND ALCDAY4 NOTIN (888,777,999,.)
THEN DO;
 IF 101 LE ALCDAY4 LE 107 THEN DROCDY2_=(ALCDAY4-100)/7;
 ELSE IF 201 LE ALCDAY4 LE 230 THEN DROCDY2_=(ALCDAY4-200)/30;
 END;
ELSE IF ALCDAY4 EQ 888 THEN DROCDY2_=0;
 ELSE IF DRNKANY4 EQ 2 THEN DROCDY2_=0;
 ELSE DROCDY2_=9;
```

Section 13: Alcohol Consumption

_RFBING4 *Calculated variable for binge drinkers (males having five or more drinks on one occasion, females having four or more drinks on one occasion).* _RFBING4 is derived from DRNK3GE5 and ALCDAY4.

1	No	Respondents that reported 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. (ALCDAY4<231 and DRNK3GE5=88; or ALCDAY4=888)
2	Yes	Respondents that reported they did drink in the past 30 days and had five or more drinks on one or more occasions in the past month. (ALCDAY4<231 and 1<=DRNK3GE5<=76)
9	Don't know/ Refused/ Missing	Respondents that reporteded 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. (DRNK3GE5=77, 99, missing; or ALCDAY4=777, 999, missing)

SAS Code:

```
IF DRNKANY4 NOTIN (.,2,7,9) AND ALCDAY4 NOTIN (888,777,999,.)
THEN DO;
 IF 1 LE DRNK3GE5 LE 76 THEN _RFBING4=2;
 ELSE IF DRNK3GE5 IN (.,77,99) THEN _RFBING4=9;
 ELSE IF DRNK3GE5 IN (88) THEN _RFBING4=1;
 END;
ELSE IF ALCDAY4 = 888 THEN _RFBING4=1;
 ELSE IF DRNKANY4 = 2 THEN _RFBING4=1;
 ELSE _RFBING4=9;
```

Section 13: Alcohol Consumption

_DRNKDY3 *Calculated variable for calculated total number of alcoholic beverages consumed per day.* _DRNKDY3 is derived from DROCDY2_ and AVEDRNK2 by multiplying the total number of drink occasions per day (DROCDY2_) by the average number of drinks per occasion (AVEDRNK2).

0	Did not drink	Respondents who did not drink in the past month. (DROCDY2_=0)
1 - 9899	Number of drinks per day	Respondents reported number of alcholic drinks in the past month. ($0 < $ DROCDY2_ $ < 990$)
9900	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 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. (AVEDRNK2=.,77,99 or DROCDY2_=900)
SAS Code:		

```
IF DROCDY2_ = 0 THEN _DRNKDY3=0;
 ELSE IF DROCDY2_ = 9 THEN _DRNKDY3=99;
 ELSE IF AVEDRNK2 IN (.,77,99) THEN _DRNKDY3=99;
 ELSE _DRNKDY3=AVEDRNK2 * DROCDY2_;
```

Section 13: Alcohol Consumption

_DRNKMO3 *Calculated variable for calculated total number of alcoholic beverages consumed per month.* _DRNKMO3 is derived by multiplying _DRNKDY3 by 30.

0	Did not drink in the past month	Respondents who did not consume any drinks of alcohol in the past month. (_DRNKDY3=0)
1 - 9998	Number of Drinks	Respondents reported number of alcholic drinks pre day. ($0 < $ _DRNKDY3 $ < 9999$)
9999	Don't know/ Refused/ Missing	Respondents that reporteded 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. (_DRNKDY3=9999)
SAS Code:		

```
IF _DRNKDY3 NOTIN (.,99) THEN _DRNKMO3=_DRNKDY3*30;
 ELSE _DRNKMO3=9999;
```

Section 13: Alcohol Consumption

_RFDRHV3 *Calculated variable for heavy drinkers (adult men having more than two drinks per day and adult women having more than one drink per day). _RFDRHV3 is derived from _DRNKDY3, ALCDAY4, and SEX.*

1	No	Male respondents that reported having 2 drinks per day or less, or female respondents that reported having 1 drinks per day or less. (Sex=1 and _DRNKDY3 <= 200 or Sex=2 and _DRNKDY3 <= 100 or ALCDAY4=888)
2	Yes	Male respondents that reported having more than 2 drinks per day, or female respondents that reported having more than 1 drink per day. (Sex=1 and _DRNKDY3 > 200 or Sex=2 and _DRNKDY3 > 100)
9	Don't know/ Refused/ Missing	Respondents with don´t know, refused or missing responses for ALCDAY4 or _DRNKDY3. (ALCDAY4=777, 999, or missing, or _DRNKDY3=99, or missing)

SAS Code:
```
IF SEX=1 AND _DRNKDY3 NOTIN (99,.) THEN DO;
 IF _DRNKDY3 GT 2 THEN _RFDRHV3=2;
 ELSE IF _DRNKDY3 LE 2 THEN _RFDRHV3=1;
 END;
 ELSE IF SEX=2 AND _DRNKDY3 NOTIN (99,.) THEN DO;
 IF _DRNKDY3 GT 1 THEN _RFDRHV3=2;
ELSE IF _DRNKDY3 LE 1 THEN _RFDRHV3=1;
 END;
 ELSE IF ALCDAY4 EQ 888 THEN _RFDRHV3=1;
 ELSE IF DRNKANY4 EQ 2 THEN _RFDRHV3=1;
 ELSE _RFDRHV3=9;
```

Section 13: Alcohol Consumption

_RFDRMN3 *Calculated variable for adult men that are heavy drinkers (having more than two drinks per day). _RFDRMN3 is derived from _DRNKDY3 and SEX and ALCDAY4.*

1	No	Male respondents that reported having 2 drinks per day or less. (SEX=1 and _DRNKDY3 <= 200 or ALCDAY4=888)
2	Yes	Male respondents that reported having more than 2 drinks per day. (SEX=1 and _DRNKDY3 > 200)
9	Don't know/ Refused/ Missing	Male respondents with don´t know, refused or missing responses for ALCDAY4 or _DRNKDY3. (SEX=1 and ALCDAY4=777, 999, or missing, or _DRNKDY3=99, or missing)
.	Respondent is female	Female respondents. (SEX=2)

SAS Code:
```
IF SEX=1 THEN DO;
 IF _DRNKDY3 NOTIN (99,.) THEN DO;
 IF _DRNKDY3 GT 2 THEN _RFDRMN3=2;
 ELSE IF _DRNKDY3 LE 2 THEN _RFDRMN3=1;
 END;
 ELSE IF ALCDAY4 IN (888) THEN _RFDRMN3=1;
 ELSE IF DRNKANY4 EQ 2 THEN _RFDRMN3=1;
ELSE _RFDRMN3=9;
 END;
 ELSE IF SEX=2 THEN _RFDRMN3=.;
```

Section 13: Alcohol Consumption

_RFDRWM3 *Calculated variable for adult women that are heavy drinkers (having more than one drink per day). _RFDRWM3 is derived from _DRNKDY3 and SEX and ALCDAY4.*

1	No	Female respondents that reported having 1 drink per day or less. (SEX=2 and _DRNKDY3 <= 200 or ALCDAY4=888)
2	Yes	Female respondents that reported having more than 1 drink per day. (SEX=2 and _DRNKDY3 > 200)
9	Don't know/ Refused/ Missing	Female respondents with don´t know, refused or missing responses for ALCDAY4 or _DRNKDY3. (SEX=2 and ALCDAY4=777, 999, or missing, or _DRNKDY3=99, or missing)
.	Respondent is male	Male respondents. (SEX=1)

SAS Code:

```
IF SEX=2 THEN DO;
 IF _DRNKDY3 NOTIN (99,.) THEN DO;
 IF _DRNKDY3 GT 1 THEN _RFDRWM3=2;
 ELSE IF _DRNKDY3 LE 1 THEN _RFDRWM3=1;
 END;
 ELSE IF ALCDAY4 IN (888) THEN _RFDRWM3=1;
 ELSE IF DRNKANY4 EQ 2 THEN _RFDRWM3=1;
ELSE _RFDRWM3=9;
 END;
 Else IF SEX=1 THEN _RFDRWM3=.;
** ROUND OFF _DRNKMO3 TO NO DECIMAL PLACES ** MULTIPLY _DRNKDY3
BY 100 AND THEN ROUND OFF TO NO DECIMAL PLACES AND THEN REMOVE
THE DECIMAL PLACES **;
 DROCDY2_=round((DROCDY2_*100),1);
 _DRNKMO3=ROUND(_DRNKMO3,1);
 _DRNKDY3=ROUND((_DRNKDY3*100),1);
```

Section 14: Disability

There are no calculated Variables for Section 14.

Section 15: Arthritis Burden

_DRDXART *Calculated variable for respondents that have had a doctor diagnose them as having some form of arthritis. _DRDXART is derived from HAVARTH2.*

1	Diagnosed with arthritis	Respondents that have been told by a doctor they had arthritis (HAVARTH2=1)
2	Not diagnosed with arthritis	Respondents that have not been told by a doctor they had arthritis (HAVARTH2=2)
.	Don´t know/ Not Sure/ Refused/ Missing	Respondents that reported they didn´t know if they had been told by a doctor they had arthritis, those who refused to answer if they had been told by a doctor they had arthritis, and those with missing responses (HAVARTH2=7,9, or missing)

SAS Code:

```
IF HAVARTH2 = 1 THEN _DRDXART=1;
 ELSE IF HAVARTH2 = 2 THEN _DRDXART=2;
 ELSE IF HAVARTH2 IN (7,9,.) THEN _DRDXART=.;
```

Calculated Variables in the 2007 Behavioral Risk Factor Surveillance System Data File (continued)

Section 16: Fruits & Vegetables

FTJUDAY_ *Calculated variable for fruit juice servings per day.* FTJUDAY_ converts the FRUITJUI variable to a "per day" response.

0 - 989	Times per day	Respondents reported servings of fruit juice per day (FRUITJUI not equal to 777,999, or missing)
990	Don't know/ Not Sure Or Refused/ Missing	Respondents who reported they didn´t know the quantity of fruit juice servings consumed per day, those who refused to answer, and those with missing responses (FRUITJUI=777,999, or missing)

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;
```

Section 16: Fruits & Vegetables

FRUTDAY_ *Calculated variable for fruit servings per day.* FRUTDAY_ converts the FRUIT variable to a per day response.

0 - 989	Times per day	Respondents reported servings of fruit per day (FRUIT not equal to 777, 999, or missing)
990	Don't know/ Not Sure Or Refused/ Missing	Respondents who reported they didn´t know the quantity of fruit servings consumed per day, those who refused to answer, and those with missing responses (FRUIT=777, 999, or missing)

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;
```

Section 16: Fruits & Vegetables

GNSLDAY_ *Calculated variable for green salad servings per day.* GNSLDAY_ converts the GREENSAL variable to a per day response.

0 - 989	Times per day	Respondents reported servings of green salad per day (GREENSAL equal to 777, 999, or missing)
990	Don't know/ Not Sure Or Refused/ Missing	Respondents who reported they didn´'t know the quantity of green salad servings consumed per day, those who refused to answer, and those with missing responses (GREENSAL=777, 999, or missing)

SAS Code:
```
ELSE IF FRUIT IN (.,777,999) THEN FRUTDAY_=99;
 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;
```

Section 16: Fruits & Vegetables

POTADAY_ *Calculated variable for potato servings per day.* POTADAY_ converts the POTATOES variable to a per day response.

0 - 989	Times per day	Respondents reported servings of potatoes per day (POTATOES not equal to 777, 999, or missing)
990	Don't know/ Not Sure Or Refused/ Missing	Respondents who reported they didn´t know the quantity of potato servings consumed per day, those who refused to answer, and those with missing responses (POTATOES=777, 999, or missing)

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;
```

Section 16: Fruits & Vegetables

CRTSDAY_ *Calculated variable for carrot servings per day.* CRTSDAY_ converts the CARROTS variable to a per day response.

0 - 989	Times per day	Respondents reported servings of carrots per day (CARROTS not equal to 777, 999, or missing)
990	Don't know/ Not Sure Or Refused/ Missing	Respondents who reported they didn´t know the quantity of carrot servings consumed per day, those who refused to answer, and those with missing responses (CARROTS=777, 999, or missing)

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 < 555 THEN CRTSDAY_=(CARROTS-400)/365;
 ELSE IF CARROTS = 555 THEN CRTSDAY_=0;
 ELSE IF CARROTS IN (.,777,999) THEN CRTSDAY_=99;
```

Section 16: Fruits & Vegetables

VEGEDAY_ *Calculated variable for vegetable servings per day.* VEGEDAY_ converts the VEGETABL variable to a per day response.

0 - 989	Times per day	Respondents reported servings of vegetables per day (VEGETABL not equal to 777, 999, or missing)
990	Don't know/ Not Sure Or Refused/ Missing	Respondents who reported they didn´t know the quantity of vegetable servings consumed per day, those who refused to answer, and those with missing responses (VEGETABL=777, 999, or missing)

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;
```

Section 16: Fruits & Vegetables

_FRTSERV *Calculated variable for fruit and vegetable servings per day.* _FRTSERV is derived from the servings per day variables (FTJUDAY_, FRUTDAY_, GNSLDAY_, POTADAY_, CRTSDAY_, and VEGEDAY_). Values for don´t know, refused, or missing" (99) are excluded from the sum.

0 - 99998	Number of times per day	Servings of fruits and vegetables per day (Sum of FTJUDAY_, FRUTDAY_, GNSLDAY_, POTADAY_, CRTSDAY_, and VEGEDAY_)
99999	Don't know/ Refused/ Missing	Respondents with a 99 values for all six fruits and vegetable per day variables. (FTJUDAY_=99 and FRUTDAY_=99 and GNSLDAY_=99 and POTADAY_=99 and CRTSDAY_=99 and and VEGEDAY_=99)

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);
```

Section 16: Fruits & Vegetables

_FRTINDX *Calculated variable for summary index for fruits and vegetables calculated variable.* _FRTINDX is derived from the servings per day variable (_FRTSERV)

1	Less than once per day or never	Respondents that reported they never consumed fruits and vegetables or consumed less than 1 serving per day (_FRTSERV<1)
2	Once but less than 3 times per day	Respondents that reported they consumed 1 to less than 3 servings of fruits and vegetables per day (1<=_FRTSERV<3)
3	3 but less than 5 times per day	Respondents that reported they consumed 3 to less than 5 servings of fruits and vegetables per day (3<=_FRTSERV<5)
4	5 or more times per day	Respondents that reported they consumed 5 or more servings of fruits and vegetables per day (5<=_FRTSERV<999.99)
9	Don't know/ Refused/ Missing	Respondents who reported they didn´t know the servings consumed per day, those who refused to answer, and those with missing responses (_FRTSERV=999.99)

SAS Code:

```
IF 0 LE _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;
```

Section 16: Fruits & Vegetables

_FV5SRV *Calculated variable for consumed five or more servings of fruits or vegetables per day. _FV5SRV is derived from the servings per day variable (_FRTSERV).*

1	Consume < 5 times per day	Respondents that reported they never consumed fruits and vegetables or consumed less than 5 servings per day (_FRTSERV<5)
2	Consume 5 or more times per day	Respondents that reported they consumed 5 or more servings of fruits and vegetables per day (5<=_FRTSERV<999.99)
9	Don't know/ Not sure/ Missing	Respondents who reported they didn´t know the servings consumed per day, those who refused to answer, and those with missing responses (_FRTSERV=999.99)

SAS Code:
```
IF 0 LE _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;
** ROUND OFF VARIABLES TO BE STORED IN ASCII FILE WITHOUT THE
DECIMAL IN THEM **;
 FTJUDAY_=round((FTJUDAY_*10),1);
 FRUTDAY_=round((FRUTDAY_*10),1);
 GNSLDAY_=round((GNSLDAY_*10),1);
 POTADAY_=round((POTADAY_*10),1);
CRTSDAY_=round((CRTSDAY_*10),1);
 VEGEDAY_=round((VEGEDAY_*10),1);
 _FRTSERV=round((_FRTSERV *100),1);
```

Section 17: Physical Activity

_MODPAMN *Calculated variable for total 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 of moderate physical activity	Respondents who reported they didn´t know whether they did moderate physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses (MODPACT=7,9, or missing or MODPADAY=7,9, or missing or MODPATIM=777,999 or missing)
.	Don't know/ Not sure/ Refused/ Missing	Respondents who reported they didn´t know whether they did moderate physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses (MODPACT=7,9, or missing or MODPADAY=7,9, or missing or MODPATIM=777,999 or missing)

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) or MODPACT=2 then _MODPAMN = 0;
 Else if MODPACT=1 and MODPADAY in(.,77,99) then _MODPAMN = .;
 _MODPAMN=ROUND(_MODPAMN,1);
```

Section 17: Physical Activity

_VIGPAMN *Calculated variable for total 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 of vigorous physical activity	Respondents who reported they didn´t know whether they did vigorous physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses
.	Don't know/ Not sure/ Refused/ Missing	Respondents who reported they didn´t know whether they did vigorous physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses

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) or VIGPACT=2 then _VIGPAMN = 0;
 Else if VIGPACT=1 and VIGPADAY in(.,77,99) then _VIGPAMN = .;
 _VIGPAMN=ROUND(_VIGPAMN,1);
```

Section 17: Physical Activity

MODCAT_ *Calculated variable for 3 level moderate physical activity category.* MODCAT_ is derived from MODPACT, _MODPAMN, MODPADAY, and MODPATIM.

1	Meet recommendations for moderate physical activity	Respondents that reported doing 30 or more minutes per day and for five or more days per week of moderate physical activity (MODPACT=1 and 5 <= MODPADAY <= 7 and 30 <= _MODPAMN <= 599)
2	Insufficient activity to meet moderate recommendations	Respondents that reported doing less than 30 minutes per day or less than five days per week of moderate physical activity (MODPACT=1 and MODPADAY < 5 or _MODPATIM < 30)
3	No moderate physical activity	Respondents that reported doing no moderate physical activity (MODPACT=2 or MODPACT=1 and _MODPAMN=0)
9	Don't know/ Not sure/ Refused/ Missing	Respondents who reported they didn´t know whether they did moderate physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses (MODPACT=7, 9, or missing or MODPACT=1 and MODPADAY=7, 9, or missing or MODPATIM=7, 9, or missing)

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 17: Physical Activity

VIGCAT_   *Calculated variable for 3 level vigorous physical activity category.* VIGCAT_ is derived from VIGPACT, _VIGPAMN, VIGPADAY, and VIGPATIM.

1	Meet recommendations for vigorous physical activity	Respondents that reported doing 20 or more minutes per day and three or more days per week of vigorous physical activity (VIGPACT=1 and 3 <= VIGPADAY <= 7 and 20 <= _VIGPAMN <= 599)
2	Insufficient activity to meet vigorous recommendations	Respondents that reported doing less than 20 minutes per day or less than three days per week of vigorous physical activity (VIGPACT=1 and VIGPADAY < 3 or _VIGPAMN < 20)
3	No vigorous physical activity	Respondents that reported doing no vigorous physical activity (VIGPACT=2 or VIGPACT=1 and _VIGPAMN=0)
9	Don't know/ Not sure/ Refused/ Missing	Respondents who reported they didn´t know whether they did vigorous physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses (VIGPACT=7, 9, or missing or VIGPACT=1 and VIGPADAY=7, 9, or missing or VIGPATIM=7, 9, or missing)

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 17: Physical Activity

PACAT_ *Calculated variable for 5 level physical activity category.* PACAT_ is derived from the variables MODCAT_ and VIGCAT_.

1	Meet recommendations for moderate and vigorous physical activity	Respondents that meet both the moderate and vigorous recommended levels of physical activity (MODCAT_=1 and VIGCAT_=1)
2	Meet recommendations for vigorous physical activity	Respondents that meet the vigorous but not the moderate recommended levels of physical activity (MODCAT_=2, or 3 and VIGCAT_=1)
3	Meet recommendations for moderate physical activity	Respondents that meet the moderate but not the vigorous recommended levels of physical activity (MODCAT_=1 and VIGCAT_=2, or 3)
4	Insufficient activity to meet moderate or vigorous recommendations	Respondents that do not meet either the moderate or the vigorous recommended levels of physical activity (MODCAT_=2 and VIGCAT_=2, or 3 or MODCAT_=3 and VIGCAT_=2)
5	No moderate or vigorous physical activity	Respondents that reported doing no moderate or the vigorous physical activity (MODCAT_=3 and VIGCAT_=3)
9	Don't know/ Not sure/ Refused/ Missing	Respondents who reported they didn´t know whether they did moderate or vigorous physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses (MODCAT_=9 and VIGCAT_ > 1 or VIGCAT_=9 and MODCAT_ > 1)

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 AND VIGCAT_=2 then PACAT_=4;
Else if MODCAT_=2 AND VIGCAT_=3 then PACAT_=4;
 Else if MODCAT_=3 AND VIGCAT_=2 then PACAT_=4;
 Else PACAT_=9;
```

Section 17: Physical Activity

_RFPAMOD *Calculated variable for adults that have reported participating in either moderate physical activity defined as 30 or more minutes per day for 5 or more days per week, or vigorous activity for 20 or more minutes per day on 3 or more days.* _RFPAMOD is derived from the variable PACAT_.

1	Yes	Respondents that reported doing enough moderate or vigorous physical activity to meet the recommendations (PACAT_=1, 2, or 3)
2	No	Respondents that reported doing insufficient moderate or vigorous physical activity to meet recommendations, or respondents that reported doing no moderate or vigorous physical activity (PACAT_=4, or 5)
9	Don't know/ Not Sure/ Refused/ Missing	Respondents who reported they didn´t know whether they did moderate or vigorous physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses (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 _RFPAMOD=9;
```

Section 17: Physical Activity

_RFPAVIG *Calculated variable for adults that have reported participating in vigorous activity for 20 or more minutes per day on 3 or more days.* _RFPAVIG is derived from the variable PACAT_.

1	Yes	Respondents that reported doing enough vigorous physical activity to meet the recommendations (PACAT_=1, or 2)
2	No	Respondents that reported doing insufficient vigorous physical activity to meet recommendations, or respondents that reported doing no vigorous physical activity (PACAT_=3, 4, or 5)
9	Don't know/ Not Sure/ Refused/ Missing	Respondents who reported they didn´t know whether they did vigorous physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses (PACAT_=9)

SAS Code:

```
If VIGCAT_ = 1 then _RFPAVIG=1;
 ELSE IF VIGCAT_ = 2 then _RFPAVIG=2;
 ELSE IF VIGCAT_ = 3 then _RFPAVIG=2;
 ELSE _RFPAVIG=9;
```

Section 17: Physical Activity

_RFPAREC *Calculated variable for adults self reported physical activity level status.* _RFPAREC is derived from the variable PACAT_.

1	Meet physical activity recommendations	Respondents that reported doing enough moderate or vigorous physical activity to meet one or both of the recommendations (PACAT_=1, 2, or 3)
2	Insufficient physical activity	Respondents that reported doing insufficient moderate or vigorous physical activity to meet either of the recommendations (PACAT_=4)
3	No physical activity	Respondents that reported doing no moderate or vigorous physical activity (PACAT_=5)
9	Don't know/ Not Sure/ Refused/ Missing	Respondents who reported they didn´t know whether they did moderate or vigorous physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses (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 17: Physical Activity

_RFNOPA *Calculated variable for adults that have reported participating in physical activity or exercise.* _RFNOPA is derived from the variables _RFPAREC and _TOTINDA.

1	Yes	Respondents that reported doing some moderate or vigorous physical activity or exercise (_RFPAREC=1, or 2 or _TOTINDA=1)
2	No	Respondents that reported doing no moderate or vigorous physical activity or exercise (_RFPAREC=3 and _TOTINDA=2)
9	Don't know/ Not Sure/ Refused/ Missing	Respondents who reported they didn´t know whether they did exercise or physical activity or didn´t know how many days or didn´t know how much time they did the activity, those who refused to answer, and those with missing responses (_RFPAREC=9 and _TOTINDA=2 or _RFPAREC=3 and _TOTINDA=9 or _RFPAREC=9 and _TOTINDA=9)

SAS Code:

```
IF 1 <= _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 18: HIV/AIDS

_AIDTST2 *Calculated variable for adults aged 18-64 that have ever been tested for hiv.* _AIDTST2 is derived from AGE and HIVTST5.

1	Yes	Respondents with reported ages between18 and 64 that reported to have been tested for HIV. (18<=AGE<=64 and HIVTST5=1)
2	No	Respondents with reported ages between18 and 64 that did not report having been tested for HIV. (18<=AGE<=64 and HIVTST5=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. or respondents that reported they did not know their age or respondents that refused to report their age. (18<=AGE<=64 and HIVTST5=7,9 or AGE=7,9)
.	Missing or Age greater than 64	Respondents with missing responses for HIVTST5 or respondents with reported ages older than 64 or respondents with missing age responses. (18<=AGE<=64 and HIVTST5=missing or AGE > 64 or AGE=missing)

SAS Code:
```
IF 18 <= AGE <= 64 THEN DO;
 IF HIVTST5=1 THEN _AIDTST2=1;
 ELSE IF HIVTST5=2 THEN _AIDTST2=2;
 ELSE IF HIVTST5 IN (7,9) THEN _AIDTST2=9;
 ELSE IF HIVTST5=. THEN _AIDTST2=.;
 END;
 ELSE IF AGE IN (.,7,9) THEN _AIDTST2=9;
 ELSE _AIDTST2=.;
```

Section 19: Emotional Support and Life Satisfaction

There are no calculated Variables for Section 19.

Section 20: Gastrointestinal Disease

There are no calculated Variables for Section 20.