

# Calculated Variables

in the Data File of the

# 2013 Behavioral Risk Factor Surveillance System

(September 24, 2014)





#### **INTRODUCTION:**

This document provides information on calculated variables for the 2013 Behavioral Risk Factor Surveillance System survey. BRFSS calculates these variables from the participants' responses to survey questions. There are three types of calculated variables:

- 1. Variables used to stratify and weight the data (This type is not included in this document.);
- 2. Intermediate variables, which users derive from a question response and are useful in the calculation of some other variable or risk factor.

Example: Users derive WTKG2 from the WEIGHT2 variable in the survey, in order to calculate the body mass index variable (\_BMI4). Most—but not all—of the intermediate variables end with an underscore, such as FTJUDAY .

3. Variables for categorizing or classifying respondents.

Most of these variables begin with an underscore such as \_BMI4.

Exceptions are: \_DENSTR2, \_GEOSTR, and \_STATE, which BRFSS determines 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 related to a risk of 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. Users should refer to the appropriate SPSS, SUDAAN, SAS, or other software user manuals for compatible variables names and functions used within the SAS code provided.

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New calculated variables added in 2013 are listed below. For a complete list of calculated variables included in the 2013 dataset see the list at the end of this document.

\_CHISPNC; \_CRACE1; \_FLSHOT6; \_FRTLT1; \_HISPANC; \_IMPCAGE; **IMPCRAC**; \_IMPCSEX; \_LMTACT1; \_LMTSCL1; \_LMTWRK1; \_M\_RACE; MINAC11; **\_MINAC21**; \_MRACE1; \_PA150R2; PA30021; \_PASTAE1; PA300R2; \_PACAT1; \_PAINDX1; \_PAREC1; \_PRACE1; \_RACE; \_RACE\_G1; \_RACEG21; \_RACEGR3; \_VEGLT1; ACTIN11 ; ACTIN21\_; CRACASC1; CRACORG1; METVL11\_; METVL21\_; **MRACASC1**: **MRACORG1**; PA1MIN; PA1VIGM\_; PAMIN11; PAMIN21\_;

PAMISS1\_; PAVIG11\_; PAVIG21\_.

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#### **Section 1: Health Status**

| _RFHLT | H Calculated varial                            | ple for adults with good or better health. We derive RFHLTH from GENHLTH.   |
|--------|--|---|
| 1      | Good or Better<br>Health                       | Respondents who reported having excellent, very good, or good health. (GENHLTH =1, 2, 3)  |
| 2      | Fair or Poor Health                            | Respondents who reported having fair or poor health. (GENHLTH =4, 5)  |
| 9      | Don't Know/<br>Not Sure Or Refused/<br>Missing | Respondents who reported they didn't know, refused to answer, or had missing responses for the general health status question. (GENHLTH =7, 9, missing) |
|        | SAS Code:                                      | <pre>IF 4 LE GENHLTH LE 5 THEN _RFHLTH=2; ELSE IF 1 LE GENHLTH LE 3 THEN _RFHLTH=1; ELSE _RFHLTH=9;</pre>   |

## Section 2: Healthy Days--Health-Related Quality of Life

There are no calculated variables for Section 2.

#### **Section 3: Health Care Access**

\_HCVU651 Calculated variable for respondents aged 18-64 who have any form of health care coverage. We derive HCVU651 from AGE and HLTHPLN1. Have Health Care Respondents who reported having health care coverage (18 <= AGE <= 64 and 1 HLTHPLN1 = 1) Coverage 2 Do Not Have Health Respondents who reported not having health care coverage (18 <= AGE <= 64 and HLTHPLN1 = 2) Care Coverage 9 Don't Know/ Respondents who reported that they did not know, were not sure, refused to report Not Sure, Refused Or or had missing responses for having health care coverage (18 <= AGE <= 64 and HLTHPLN1 = 7, 9, or missing or AGE => 65)Missing IF 18 LE AGE LE 64 THEN DO; SAS Code: IF HLTHPLN1=1 THEN \_HCVU651=1; ELSE IF HLTHPLN1=2 THEN \_HCVU651=2; ELSE HCVU651=9; END; ELSE HCVU651 = 9;

## **Section 4: Inadequate Sleep**

There are no calculated variables for Section 4.

#### **Section 5: Hypertension Awareness**

| _RFHYPE5 | Calculated variable for adults who have been told they have high blood pressure by a doctor, nurse, |
|----------|---|
|          | or other health professional. We derive _RFHYPE5 from BPHIGH4.                                      |

| 1 | No  | Respondents who were not told their pressure is high by a health professional (BPHIGH4=2,3,or 4) |
|---|-----|--|
| 2 | Vac | Despendents who were told their pressure is high by a health professional                        |

Yes Respondents who were told their pressure is high by a health professional (BPHIGH4=1)

Don't Know/ Not Sure/ Refused/ Missing

9

Respondents who 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 6: Cholesterol Awareness**

| 1 | Had Cholesterol   | Respondents who reported having had their cholesterol checked within the past |
|---|-------------------|---|
|   | Checked In Past 5 | five years (BLOODCHO=1 and CHOLCHK=1,2,or 3)                                  |
|   | Vears             |   |

Did Not Have Respondents who reported not having had their cholesterol checked within the Cholesterol Checked past five years (BLOODCHO=1 and CHOLCHK=4)

In Past 5 Years

Have Never Had Respondents who reported never having had their cholesterol checked Cholesterol Checked (BLOODCHO=2)

Pon't Know/ Respondents who 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 6: Cholesterol Awareness**

| _RFCHC | doctor, nurse, or                              | 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. We derive _RFCHOL from BLOODCHO and TOLDHI2.   |  |  |
|--------|--|--|--|--|
| 1      | No   | Respondents who reported having had their blood cholesterol checked but had not been told it was high (BLOODCHO=1 and TOLDHI2=2)   |  |  |
| 2      | Yes  | Respondents who 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/<br>Not Sure Or Refused<br>/Missing | Respondents who reported they did not 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 who reported they have not had their blood cholesterol checked (BLOODCHO=2,7,9,or missing)   |  |  |
|        | SAS Code:                                      | <pre>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=.;</pre>  |  |  |

# **Section 7: Chronic Health Conditions**

| _LTASTH1 | Calculated variable for adults who have ever been told they have asthma. We derive_LTASTH1 |
|----------|--|
|          | from ASTHMA3.  |

|   | HUIII AS HIMA                                 | $\mathcal{S}$ .   |
|---|---|---|
| 1 | No  | Respondents who have not been told by a doctor, nurse, or health professional that they had asthma. (ASTHMA3=2)   |
| 2 | Yes   | Respondents who have been told by a doctor, nurse, or health professional that they had asthma. (ASTHMA3=1)   |
| 9 | Don't Know/<br>Not Sure Or<br>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 who refused to answer if they had been told by a doctor, nurse or health professional that they had asthma; or those with missing responses. (ASTHMA3=7, 9, missing) |
|   | SAS Code:                                     | <pre>IF ASTHMA3=1 THEN _LTASTH1=2; ELSE IF ASTHMA3=2 THEN _LTASTH1=1; ELSE LTASTH1=9;</pre>   |

# **Section 7: Chronic Health Conditions**

| _CASTHM |   | ble for adults who have been told they currently have asthma. We derive a ASTHMA3 and ASTHNOW.  |
|---------|---|---|
| 1       | No  | Respondents who have not been told by a doctor, nurse, or health professional that they had asthma or do not still have asthma. (ASTHMA3=2 or ASTHMA3=1 and ASTHNOW=2)  |
| 2       | Yes   | Respondents who have been told by a doctor, nurse, or health professional that they had asthma and that they still have asthma. (ASTHMA3=1 and ASTHNOW=1)   |
| 9       | Don't know/<br>Not Sure Or<br>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 who refused to answer if they had been told by a doctor, nurse, or health professional that they had asthma; those who did not know if they still had asthma; those who refused to answer if they still had asthma; or those with missing responses. (ASTHMA3=7, 9, missing; or ASTHNOW=7, 9, missing) |
|         | SAS Code:                                     | <pre>IF ASTHMA3=2 THEN _CASTHM1=1; ELSE IF ASTHMA3=1 AND ASTHNOW=1 THEN _CASTHM1=2; ELSE IF ASTHMA3=1 AND ASTHNOW=2 THEN _CASTHM1=1; ELSE _CASTHM1=9;</pre>   |

# **Section 7: Chronic Health Conditions**

| Section 7 | : Chronic Health Cor                           | iditions   |
|-----------|--|--|
| _ASTHM    | IS1 Calculated varia<br>ASTHNOW.               | ble for computed asthma status. We derive_ASTHMS1 from ASTHMA3 and   |
| 1         | Current  | Respondents who have been told by a doctor, nurse, or health professional that they had asthma and that they still have asthma. (ASTHMA3=1and ASTHNOW=1)   |
| 2         | Former   | Respondents who have been told by a doctor, nurse, or health professional that they had asthma but do not still have asthma. (ASTHMA3=1 and ASTHNOW=2)   |
| 3         | Never  | Respondents who have not been told by a doctor, nurse, or health professional that they had asthma. (ASTHMA3=2)  |
| 9         | Don't Know/<br>Not Sure Or Refused/<br>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 who refused to answer if they had been told by a doctor, nurse or health professional that they had asthma; those who didn't know if they still had asthma; those that refused to answer if they still had asthma;, or those with missing responses. (ASTHMA3=7, 9, missing; or ASTHNOW=7, 9, missing) |
|           | SAS Code:                                      | <pre>IF ASTHMA3=1 AND ASTHNOW=1 THEN _ASTHMS1=1; ELSE IF ASTHMA3=1 AND ASTHNOW=2 THEN _ASTHMS1=2; ELSE IF ASTHMA3=2 THEN _ASTHMS1=3; ELSE ASTHMS1=9;</pre>   |

#### **Section 7: Chronic Health Conditions**

\_DRDXAR1 Calculated variable for respondents who have had a doctor diagnose them as having some form of arthritis. We derive DRDXAR1 from HAVARTH3.

- Diagnosed with Respondents who have been told by a doctor they had arthritis (HAVARTH2=1)
  Arthritis
- Not Diagnosed with Respondents who have not been told by a doctor they had arthritis (HAVARTH2=2) Arthritis
- Not Sure/ Refused/ Missing Respondents who 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 HAVARTH3 = 1 THEN \_DRDXAR1=1; ELSE IF HAVARTH3 = 2 THEN \_DRDXAR1=2; ELSE IF HAVARTH3 IN (7,9,.) THEN \_DRDXAR1=.;

# **Section 8: Demographics**

MRACORG1 *Calculated variable for mrace1 with 77,80,88,90s removed.* We derive MRACORG1 from MRACE1 in the original order in which the data were received from the state territory. If MRACE1 is greater than 99, then any 77, 80, 88, or 99 is removed. If MRACE1 is less than or equal to 99, then MRACORG1 is equal to MRACE1.

| 10 -<br>605040<br>302010 | Race code(s)            | Respondents reported race or races in original order (MRACE1=10, 20, 30, 40, 50, 60, or MRACE1 > 99)   |
|--------------------------|-------------------------|--|
| 77                       | Don't Know/<br>Not Sure | Respondents who reported they did not know or who were unsure of their race. (MRACE1=77)   |
| 99                       | Refused                 | Respondents who refused to give their race. (MRACE1=99)  |
|                          | SAS Code:               | <pre>IF (LEFT(COMPRESS(LENGTH(MRACE1)))) &gt; 2 THEN DO; MRACORG77=PUT(LEFT(COMPRESS(TRANWRD(MRACE1,"77",""))),28.); MRACORG88=PUT(LEFT(COMPRESS(TRANWRD(MRACORG77,"88",""))),28.); MRACORG99=PUT(LEFT(COMPRESS(TRANWRD(MRACORG88,"99",""))),28.); MRACORG1=PUT(LEFT(COMPRESS(TRANWRD(MRACORG99,"80",""))),28.); END; ELSE DO; MRACORG1=MRACE1; END;</pre> |

# Calculated Variables in the Data File of the 2013 Behavioral Risk Factor Surveillance System

# **Section 8: Demographics**

MRACASC1 Calculated variable for mrace with 7,8,9s removed, in ascending order. We derive MRACASC1 from MRACORG1 and sort the values that make up MRACORG1 from smallest to largest.

| 10 -<br>102030<br>405060 | Race code(s)            | Respondents reported race or races in ascending order (MRACE1=10, 20, 30, 40, 50, 60, or MRACORG1 > 99) |
|--------------------------|-------------------------|---|
| 77                       | Don't Know/<br>Not Sure | Respondents who reported they did not know or were unsure of their race. (MRACORG1=77)                  |
| 99                       | Refused                 | Respondents who refused to give their race. (MRACORG1=99)   |

MRACASC1 Calculated variable for mrace with 7,8,9s removed, in ascending order. We derive MRACASC1 from MRACORG1 and sort the values that make up MRACORG1 from smallest to largest.

```
SAS Code:
              IF (LEFT(COMPRESS(LENGTH(MRACORG1)))) > 2 THEN DO;
              array pairs[14];
              length MRAC_SORTED $28;
              counter = .;
              do pos = 1 to length(MRACORG1) by 2;
              counter + 1;
              pairs[counter] = input(substr(MRACORG1, pos, 2), 2.);
              end;
              do i = 1 to counter;
              MRAC_SORTED = cats(MRAC_SORTED, smallest(i, of pairs[*]));
              drop pairs: i counter pos;
              MRAC_VALID=MRAC_SORTED;
              %macro swapthis;
              %do M = 1 %to 14;
              %LET R=%eval((&M.*2)-1);
              %do s = 41 %to 47;
              if substr(MRAC_VALID,&R.,2)=&s. then do;
              MRAC_VALID = TRANWRD(MRAC_VALID, "&S.", "40");
              end;
              %end;
              %do t = 51 %to 54;
              if substr(MRAC_VALID,&R.,2)=&t. then do;
              MRAC_VALID = TRANWRD(MRAC_VALID, "&T.", "50");
              end;
              %end;
              %end;
              %mend;
              %swapthis;
              DO Z=1 TO 4;
              MRAC 5050=
              PUT(LEFT(COMPRESS(TRANWRD(MRAC_VALID, "5050", "50XX"))),28.);
              MRAC_ONE50= PUT(LEFT(COMPRESS(TRANWRD(MRAC_5050,"XX",""))),28.);
              MRAC ONE40=MRAC ONE50;
              DO Y=1 TO 7;
              MRAC 4040=
              PUT(LEFT(COMPRESS(TRANWRD(MRAC ONE40,"4040","40XX"))),28.);
              MRAC_ONE40= PUT(LEFT(COMPRESS(TRANWRD(MRAC_4040,"XX",""))),28.);
              MRACASC1=INPUT(MRAC_ONE40,28.0);
              END;
              ELSE DO;
              MRACASC1=INPUT(MRACORG1, 28.0);
              END;
```

| 1  | White   | Respondents who reported their race as white. (MRACASC1=10 or MRACASC1>99 and ORACE3=10)   |  |
|----|---|--|--|
| 2  | Black Or African<br>American                      | Respondents who reported their race as black. (MRACASC1=22 or MRACASC1>99 and ORACE3=20)   |  |
| 3  | American Indian Or<br>Alaskan Native              | Respondents who reported their race as American Indian or Alaskan Native. (MRACASC1=30 or MRACASC1>99 and ORACE3=30)   |  |
| 4  | Asian   | Respondents who reported their race as Asian. (MRACASC1=40 or MRACASC1>99 and ORACE3=40)   |  |
| 5  |   | Respondents who reported their race as Native Hawaiian or Pacific Islander. (MRACASC1=50 or MRACASC1>99 and ORACE3=50)   |  |
| 6  | Other Race  | Respondents who report they are of some other race group not listed in the question responses. (MRACASC1=60 or MRACASC1>99 and ORACE3=60)  |  |
| 7  | No Preferred Race                                 | Respondents who reported they are of more than one race group but did not report a preference or the preferred race is missing (MRACASC1>99 and ORACE3=77 or 99)   |  |
| 8  | Multiracial But<br>Preferred Race Not<br>Answered | Respondents who 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. (MRACASC1 >99 and ORACE3=80 or MRACASC1 >99 and ORACE3=Missing)  |  |
| 77 | Don't Know/<br>Not Sure                           | Respondents who reported they did not know their race and did not answer the question about which race best represents them. (MRACASC1=77)   |  |
| 99 | Refused   | Respondents who refused to give their race and did not answer the question about which race best represents them. (MRACASC1=99)  |  |
|    | SAS Code:   | IF MRACASC1 EQ 10 THEN _PRACE1 = 1;  ELSE IF MRACASC1 EQ 20 THEN _PRACE1 = 2;  ELSE IF MRACASC1 EQ 30 THEN _PRACE1 = 3;  ELSE IF 40 LE MRACASC1 LE 49 THEN _PRACE1=4;  ELSE IF 50 LE MRACASC1 LE 59 THEN _PRACE1=5;  ELSE IF MRACASC1 EQ 60 THEN _PRACE1=6;  ELSE IF MRACASC1 EQ 77 THEN _PRACE1=77;  ELSE IF MRACASC1 EQ 99 THEN _PRACE1=99;  ELSE IF MRACASC1 GT 99 THEN DO;  IF ORACE3=77 THEN _PRACE1=7;  ELSE IF ORACE3=99 THEN _PRACE1=7;  ELSE IF ORACE3=. THEN _PRACE1=8;  ELSE IF ORACE3=80 THEN _PRACE1=8;  ELSE IF ORACE3 EQ 10 THEN _PRACE1=1;  ELSE IF ORACE3 EQ 20 THEN _PRACE1=2;  ELSE IF ORACE3 EQ 30 THEN _PRACE1=3;  ELSE IF ORACE3 EQ 30 THEN _PRACE1=4;  ELSE IF 50 LE ORACE3 LE 49 THEN _PRACE1=5;  ELSE IF ORACE3 EQ 60 THEN _PRACE1=5;  ELSE IF ORACE3 EQ 60 THEN _PRACE1=6;  END; |  |

| _MRAC | MRACASC1. If res category. If MRACA                  | for calculated multiracial race categorization. We derive _MRACE1 from pondents reported more than one race, they are assigned to the multiracial ASC1 is less than 40 or equal to 60 then _MRACE1=MRACASC1. If 47 then _MRACE1=40. If MRACASC1 is 50-54 then _MRACE1=50.   |
|-------|--|---|
| 1     | White Only   | Respondents who reported they are white. (MRACASC1=10)  |
| 2     | Black Or African<br>American Only                    | Respondents who report they are black. (MRACASC1=22)  |
| 3     | American Indian Or<br>Alaskan Native Only            | Respondents who reported they are American Indian or Alaskan Native. (MRACASC1=30)  |
| 4     | Asian Only   | Respondents who reported they are Asian. (MRACASC1=40,41,42,423,44,45,46,47)  |
| 5     | Native Hawaiian Or<br>Other Pacific Islander<br>Only | Respondents who reported they are native Hawaiian or Pacific Islander. (MRACASC1=50,51,52,53,54)  |
| 6     | Other Race Only                                      | Respondents who reported they are of some other race group not listed in the question responses. (MRACASC1=60)  |
| 7     | Multiracial  | Respondents who reported they are of more than one race group (MRACASC1>99)   |
| 77    | Don't Know/<br>Not Sure                              | Respondents who reported they did not know their race. (MRACASC1=77)  |
| 99    | Refused  | Respondents who refused to give their race information. (MRACASC1=99)   |
|       | SAS Code:  | <pre>IF MRACASC1 GT 99 THEN _MRACE1 = 7; ELSE IF MRACASC1 EQ 99 THEN _MRACE1 = 99; ELSE IF MRACASC1 EQ 77 THEN _MRACE1 = 77; ELSE IF MRACASC1 EQ 10 THEN _MRACE1 = 1; ELSE IF MRACASC1 EQ 20 THEN _MRACE1 = 2; ELSE IF MRACASC1 EQ 30 THEN _MRACE1 = 3; ELSE IF 40 LE MRACASC1 LE 47 THEN _MRACE1 = 4; ELSE IF 50 LE MRACASC1 LE 54 THEN _MRACE1 = 5; ELSE IF MRACASC1=60 THEN _MRACE1=6;</pre> |

| 10 | White                             | Respondents who reported being white (MRACASC1=10)  |
|----|-----------------------------------|---|
| 20 | Black Or African<br>American      | Respondents who reported being black or African American (MRACASC1=22)  |
| 30 | American Indian Or Alaskan Native | Respondents who reported being American Indian or Alaskan Native (MRACASC1=30)  |
| 40 | Asian                             | Respondents who reported being Asian (MRACASC1=40)  |
| 41 | Asian Indian                      | Respondents who reported being Asian Indian (MRACASC1=41)   |
| 42 | Chinese                           | Respondents who reported being Chinese (MRACASC1=42)  |
| 43 | Filipino                          | Respondents who reported being Filipino (MRACASC1=43)   |
| 44 | Japanese                          | Respondents who reported being Japanese (MRACASC1=44)   |
| 45 | Korean                            | Respondents who reported being Korean (MRACASC1=45)   |
| 46 | Vietnamese                        | Respondents who reported being Vietnamese (MRACASC1=46)   |
| 47 | Other Asian                       | Respondents who reported being Other Asian (MRACASC1=47)  |
| 50 | Pacific Islander                  | Respondents who reported being Pacific Islander (MRACASC1=50)   |
| 51 | Native Hawaiian                   | Respondents who reported being Native Hawaiian (MRACASC1=51)  |
| 52 | Guamanian Or<br>Chamorro          | Respondents who reported being Guamanian or Chamorro (MRACASC1=52)  |
| 53 | Samoan                            | Respondents who reported being Samoan (MRACASC1=53)   |
| 54 | Other Pacific<br>Islander         | Respondents who reported being Other Pacific Islander (MRACASC1=54)   |
| 60 | Other                             | Respondents who reported being Other (MRACASC1=60)  |
| 70 | Multiple Responses                | Respondents who reported being of multiple races/ethnicities (MRACASC1>99)  |
| 77 | Don't Know/<br>Not Sure           | Respondents who reported they did not know their race (MRACASC1=77)   |
| 99 | Refused                           | Respondents who refused to answer what race/ethnicity they were (MRACASC1=99)   |
|    | SAS Code:                         | IF MRACASC1 GT 99 THEN _M_RACE = 70;<br>ELSE IF MRACASC1 EQ 99 THEN _M_RACE = 99;<br>ELSE IF MRACASC1 EQ 77 THEN _M_RACE = 77;<br>ELSE IF 10 LE MRACASC1 LE 60 THEN _M_RACE=MRACASC1; |

\_HISPANC Calculated variable for Hispanic, Latino/a, or Spanish origin calculated variable. We derive \_HISPANC from HISPANC3

| 1 | Hispanic, Latino/A,<br>Or Spanish Origin           | Respondents who reported being of Hispanic, Latino/a, or Spanish origin (HISPANC3=1,2,3,4 or HISPANC3 > 9)      |
|---|--|---|
| 2 | Not Of Hispanic,<br>Latino/A, Or Spanish<br>Origin | Respondents who reported they were not of Hispanic, Latino/a, or Spanish origin (HISPANC3=5)                    |
| 9 | Don't Know,<br>Refused Or Missing                  | Respondents who refused to report if they were of Hispanic, Latino/a, or Spanish origin (HISPANC3=7)            |
| ٠ | Not Asked Or<br>Missing                            | Respondents who reported they did not know if they were of Hispanic, Latino/a, or Spanish origin (HISPANC3=9)   |
|   | SAS Code:  | <pre>IF HISPANC3 in (5,58) THEN _HISPANC=2; ELSE IF HISPANC3 in (7,9,.) THEN _HISPANC=9; ELSE _HISPANC=1;</pre> |

```
1
          White Only,
                                 Respondents who reported they are white and not of Hispanic origin.
                                 ( MRACE1=1 and HISPANC=2)
         Non-Hispanic
2
          Black Only,
                          Respondents who reported they are black and not of Hispanic origin. (MRACE1=2
                          and HISPANC=2)
         Non-Hispanic
3
      American Indian Or
                                 Respondents who reported they are American Indian or Alaskan Native
     Alaskan Native Only,
                                 and not of Hispanic origin. (_MRACE1=3 and _HISPANC=2)
         Non-Hispanic
4
          Asian Only,
                          Respondents who reported they are Asian and not of Hispanic origin. (_MRACE1=4
                          and _HISPANC=2)
         Non-Hispanic
5
      Native Hawaiian Or
                                 Respondents who reported they are Native Hawaiian or Pacific Islander
     Other Pacific Islander
                                 and not of Hispanic origin. (MRACE1=5 and HISPANC=2)
      Only, Non-Hispanic
        Other Race Only,
                          Respondents who reported they are of some other race group not listed in the
6
         Non-Hispanic
                          question responses and are not of Hispanic origin. (MRACE1=6 and HISPANC=2)
7
          Multiracial,
                              Respondents who reported they are of more than one race group and are not of
                              Hispanic origin. (MRACE1=7 and HISPANC=2)
         Non-Hispanic
8
                          Respondents who reported they are of Hispanic origin. (_HISPANC=1)
            Hispanic
9
         Don't Know/
                                Respondents who 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
       Not Sure/Refused
                                 are of Hispanic origin. (_MRACE1 =77, 99 and _HISPANC=2 or _HISPANC=7, 9)
                          IF HISPANC=9 OR ( MRACE1 IN(77,99) AND HISPANC3 EQ 2) THEN DO;
          SAS Code:
                          RACE = 9 ;
                          END;
                          ELSE IF HISPANC = 2 THEN DO;
                          IF MRACE1 = 1 THEN RACE = 1 ;
                          ELSE IF _MRACE1 = 2 THEN _RACE = 2 ;
                          ELSE IF _MRACE1 = 3 THEN _RACE = 3 ;
                          ELSE IF _MRACE1 = 4 THEN _RACE = 4 ;
                          ELSE IF _MRACE1 = 5 THEN _RACE = 5 ;
                          ELSE IF MRACE1 = 6 THEN RACE = 6;
                          ELSE IF _MRACE1 = 7 THEN _RACE = 7 ;
                          ELSE IF _HISPANC=1 THEN DO;
                          RACE = 8 ;
                          END;
```

\_RACEG21 Calculated variable for white Non-Hispanic race group. We derive \_RACEG21 from \_RACE.

1 Non-Hispanic White Respondents who reported they are white and not of Hispanic origin. (\_RACE=1) 2 Non-White Or Respondents who reported they are non-white or of Hispanic origin. (RACE=2, 3, 4, 5, 6, 7, 8) Hispanic Don't Know/ 9 Respondents who reported they did not know, or refused to give their race and are Not Sure/ Refused not of Hispanic origin or did not know, or refused to answer if they are of Hispanic origin. (\_RACE=9) IF \_RACE = 1 THEN \_RACEG21 = 1; **SAS Code:** ELSE IF \_RACE IN (2,3,4,5,6,7,8) THEN \_RACEG21 = 2; ELSE IF \_RACE=9 THEN \_RACEG21 = 9;

## **Section 8: Demographics**

\_RACEGR3 Calculated variable for five-level race ethnicity category. We derive \_RACEGR3 derived from \_RACE.

| 1 | White Only,<br>Non-Hispanic      | Respondents who reported they are white and not of Hispanic origin. (_RACE=1)  |
|---|----------------------------------|--|
| 2 | Black Only,<br>Non-Hispanic      | Respondents who reported they are black and not of Hispanic origin. (_RACE=2)  |
| 3 | Other Race Only,<br>Non-Hispanic | Respondents who reported they are not white and not black and not of Hispanic origin. (_RACE=3, 4, 5, 6)   |
| 4 | Multiracial,<br>Non-Hispanic     | Respondents who reported being multiracial but not of Hispanic origin. (_RACE=7)   |
| 5 | Hispanic                         | Respondents who reported they are of Hispanic origin. (_RACE=8)  |
| 9 | Don't Know/<br>Not Sure/ Refused | Respondents who 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. (_RACE=9) |
|   | SAS Code:                        | <pre>IF _RACE=1 THEN _RACEGR3=1; ELSE IF _RACE=2 THEN _RACEGR3=2; ELSE IF 3 LE _RACE LE 6 THEN _RACEGR3=3; ELSE IF _RACE=7 THEN _RACEGR3=4; ELSE IF _RACE=8 THEN _RACEGR3=5;</pre>       |

ELSE IF RACE=9 THEN RACEGR3=9;

\_RACE\_G1 Calculated variable for race groups used for internet prevalence tables. We derive \_RACE\_G from \_RACEGR3.

| 1 | White -<br>Non-Hispanic                                | Respondents who reported they are white and not of Hispanic origin. (_RACEGR3=1)   |
|---|--|--|
| 2 | Black -<br>Non-Hispanic                                | Respondents who reported they are black and not of Hispanic origin. (_RACEGR3=2)   |
| 3 | Hispanic   | Respondents who reported that they are of Hispanic origin. (_RACEGR3=5)  |
| 4 | Other race only,<br>Non-Hispanic                       | All other respondents with valid race responses except for those reporting multiracial or Hispanic origins. (_RACEGR3=3) |
| 5 | Multiracial,<br>Non-Hispanic                           | All other respondents reporting multiracial but non-Hispanic origin. (_RACEGR3=4)  |
|   | Don't know/<br>Not sure/ Refused<br>component question | Respondents with don't know, refused or missing values for _RACEGR2. (_RACEGR3=9, missing)                               |

# Calculated Variables in the Data File of the 2013 Behavioral Risk Factor Surveillance System

# **Section 8: Demographics**

| _AGEG5YR | O 1                           | able for fourteen-level age category. We derive_AGEG5YR from AGE.  |
|----------|-------------------------------|--|
| 1        | Age 18 to 24                  | Respondents with reported age from 18 to 24 years (18 <= AGE <= 24)  |
| 2        | Age 25 to 29                  | Respondents with reported age from 25 to 29 years (25 <= AGE <= 29)  |
| 3        | Age 30 to 34                  | Respondents with reported age from 30 to 34 years (30 <= AGE <= 34)  |
| 4        | Age 35 to 39                  | Respondents with reported age from 35 to 39 years (35 <= AGE <= 39)  |
| 5        | Age 40 to 44                  | Respondents with reported age from 40 to 44 years (40 <= AGE <= 44)  |
| 6        | Age 45 to 49                  | Respondents with reported age from 45 to 49 years (45 <= AGE <= 49)  |
| 7        | Age 50 to 54                  | Respondents with reported age from 50 to 54 years (50 <= AGE <= 54)  |
| 8        | Age 55 to 59                  | Respondents with reported age from 55 to 59 years (55 <= AGE <= 59)  |
| 9        | Age 60 to 64                  | Respondents with reported age from 60 to 64 years (60 <= AGE <= 64)  |
| 10       | Age 65 to 69                  | Respondents with reported age from 65 to 69 years (65 <= AGE <= 69)  |
| 11       | Age 70 to 74                  | Respondents with reported age from 70 to 74 years (70 <= AGE <= 74)  |
| 12       | Age 75 to 79                  | Respondents with reported age from 75 to 79 years (75 <= AGE <= 79)  |
| 13       | Age 80 or older               | Respondents with reported age from 80 to 99 years (80 <= AGE <= 99)  |
| 14<br>R  | Don't know/<br>efused/Missing | Respondents which reported they did not know, were unsure, refused to report or had missing responses for their age. (AGE=7, 9, missing) |

\_AGEG5YR Calculated variable for fourteen-level age category. We derive\_AGEG5YR from AGE.

```
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 8: Demographics**

```
_AGE65YR Calculated variable for two-level age category. We derive_AGE65YR from AGE.
```

- 1 Age 18 To 64 Respondents with reported ages 18–64. (18 <= AGE <=64)
- Age 65 Or Older Respondents with reported ages 65-99.  $(65 \ge AGE \ge 99)$
- 3 Don't Know/ Respondents which reported they did not know, were not sure, refused, or had a
  - Refused/ Missing 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 8: Demographics**

```
_AGE_G Calculated variable for six-level imputed age category. We derive _AGE_G from _IMPAGE (imputed age).
```

```
1 Age 18 to 24 Respondents with imputed ages 18-24 years of age. (18 \le IMPAGE \le 24)
```

- Age 25 to 34 Respondents with imputed ages 25-34 years of age. ( $25 \le IMPAGE \le 34$ )
- 3 Age 35 to 44 Respondents with imputed ages 35–44 years of age.  $(35 \le \_IMPAGE \le 44)$
- 4 Age 45 to 54 Respondents with imputed ages 45–54 years of age. (45 <= \_IMPAGE <= 54)
- 5 Age 55 to 64 Respondents with imputed ages 55–64 years of age. (55 <= \_IMPAGE <= 64)
- 6 Age 65 or older Respondents with imputed ages 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;
```

| HTIN4 | Calculated variable for reported height in inches. We derive HTIN4 from HEIGHT2 and calculate it |
|-------|--|
|       | by adding the foot portion of HEIGHT2 multiplied by 12, to the inch portion.                     |

| 36 - 95 | Height In Inches | Respondents calculated height in inches. (HTIN4=(height in feet x 12) + height in inches) |
|---------|------------------|---|
| 999     | Don't Know/      | Respondents who reported they did not know, were not sure, refused to report or           |
|         | Refused/Missing  | had missing responses for their height. (HEIGHT3=777, 999, 7777, 9999 or missing or       |
|         |                  | HEIGHT3 < 36 inches or HEIGHT3 > 95 inches)   |

SAS Code: IF 300<=HEIGHT3<=311 THEN HTIN4=((HEIGHT3-300)+36); ELSE IF 400<=HEIGHT3<=411 THEN HTIN4=((HEIGHT3-400)+48); ELSE IF 500<=HEIGHT3<=511 THEN HTIN4=((HEIGHT3-500)+60); ELSE IF 600<=HEIGHT3<=611 THEN HTIN4=((HEIGHT3-600)+72); ELSE IF 700<=HEIGHT3<=711 THEN HTIN4=((HEIGHT3-700)+84);

# **Section 8: Demographics**

| HTM4 | Calculated variable for reported height in meters. We derive HTM4 from the variable HTIN4 by |
|------|--|
|      | multiplying HTIN4 by 2.54 cm per in and dividing by 100 cm per meter. HTM4 is derived from   |
|      | HEIGHT2 metric values by dividing by 100.  |

| 91 - 244 | Height in meters [2 implied decimal places] | Respondents reported or calculated height in meters. (HTM4=HTIN4 x $0.0254$ or HTM4 = (HEIGHT3 - $9000$ ) $\div$ $100$ )  |
|----------|---|---|
| 999      | Don't know/<br>Refused/ Missing             | Respondents who reported they did not know, were not sure, refused to report or had missing responses for their height. (HEIGHT3=777, 999, 7777, 9999 or missing or HEIGHT3 < 0.91 meters or HEIGHT3 2.44 meters) |

SAS Code: IF 300 <= HEIGHT3 <= 711 THEN HTM4=HTIN4\*0.0254; ELSE IF 9091 <= HEIGHT3 < 9244 THEN HTM4=(HEIGHT3-9000)/100;

WTKG3 *Calculated variable for reported weight in kilograms.* We derive WTKG3 from WEIGHT2 by multiplying WEIGHT2 by 0.4535924 kg per lb.

| 2300 -<br>29500 | Weight in kilograms [2 implied decimal places] | Respondents reported or calculated weight in kilograms.  |
|-----------------|--|--|
| 99999           | Don't know/<br>Refused/Missing                 | Respondents who reported they did not know, were not sure, refused to report or had missing responses for their weight.  |
|                 | SAS Code:                                      | ** CONVERSION FACTOR = 0.4535924 kg/lb **;<br>IF WEIGHT2 NOT IN (777,999,7777,9999,.) THEN DO;<br>IF 0050 LE WEIGHT2 < 0650 THEN WTKG3=WEIGHT2*0.4535924;<br>ELSE IF 9023 LE WEIGHT2 < 9295 THEN WTKG3=WEIGHT2-9000;<br>END; |

## **Section 8: Demographics**

```
Calculated variable for body mass index (bmi). We derive _BMI5 from WTKG3 and HTM4 by
_BMI5
             dividing WTKG3 by HTM42.
1 - 9999
             1 Or Greater
                             Respondents calculated body mass index (BMI) {units=kilograms per meter
                             squared \{ . (BMI5 = WTKG3 / (HTM4xHTM4)) \}
            Don't Know/
                             Respondents who had a missing value for their height in meters or weight in
          Refused/Missing
                             kilograms. (WTKG3=missing or HTM4=missing or _BMI5<12.00 or _BMI5>=100 or
                             PREGNANT=1)
                             IF (WTKG3 NOTIN (.)) AND (HTM4 NOTIN (.)) THEN _BMI5=WTKG3/(HTM4 **
             SAS Code:
                             2);
                              ELSE _BMI5=.;
                             IF _BMI5 NE . THEN _BMI5=ROUND(_BMI5,.01);
                              IF _BMI5 > 99.99 THEN _BMI5=.;
                              IF _BMI5 < 12.00 THEN _BMI5=.;</pre>
                             IF PREGNANT=1 THEN BMI5=.;
```

\_BMI5CAT Calculated variable for four-categories of body mass index (bmi). We derive \_BMI5CAT from \_BMI5.

| 1 | Underweight                    | Respondents classified as underweight based on body mass index. (_BMI5 < 18.50)   |
|---|--------------------------------|---|
| 2 | Normal Weight                  | Respondents classified as normal weight based on body mass index. (18.50 <= _BMI5 < 25.00)  |
| 3 | Overweight                     | Respondents classified as overweight based on body mass index. (25.00 <= _BMI5 < 30.00)   |
| 4 | Obese                          | Respondents classified as obese based on body mass index. (30.00 <= _BMI5 < 99.99)  |
| • | Don't Know/<br>Refused/Missing | Respondents with an unknown, refused, or missing value for body mass index. (_BMI5=.)   |
|   | SAS Code:                      | <pre>IF (0.00 LE _BMI5 &lt; 18.50) THEN _BMI5CAT=1; ELSE IF (18.50 LE _BMI5 &lt; 25.00) THEN _BMI5CAT=2; ELSE IF (25.00 LE _BMI5 &lt; 30.00) THEN _BMI5CAT=3; ELSE IF _BMI5 GE 30.00 THEN _BMI5CAT=4;</pre> |

# **Section 8: Demographics**

```
Calculated variable for adults who have a body mass index greater than 25.00 (overweight or obese).
RFBMI5
             We derive RFBMI5 from BMI5.
                            Respondents not classified as overweight or obese based on body mass index. (12
  1
                 No
                            <= BMI5 < 25.00)
  2
                Yes
                            Respondents classified as overweight or obese based on body mass index. (25.00
                             <= _BMI5 <= 99.99)
  9
            Don't know/
                             Respondents with an unknown, refused, or missing value for body mass index.
                            (_BMI5=missing)
          Refused/Missing
             SAS Code:
                             IF (12.00 LE BMI5 < 25.00) THEN RFBMI5=1;
                              ELSE IF (25.00 <= _BMI5 < 99.99) THEN _RFBMI5=2;
                              ELSE _RFBMI5=9;
                             ** Round off HTM4, WTKG3 and _BMI5 to 2 decimal places and remove the
                             decimal **;
                              HTIN4 = round(HTIN4,1);
                              HTM4 = round((HTM4*100),1);
                              WTKG3 = round((WTKG3*100),1);
                              IF \_BMI5 NE . THEN \_BMI5 = ROUND((\_BMI5*100),1);
```

| 1 | No Children in Household                 | Respondents who reported having no children. (CHILDREN=88)  |
|---|--|---|
| 2 | One Child In Household                   | Respondents who reported having one child. (CHILDREN=1)   |
| 3 | Two Children in Household                | Respondents who reported having two children. (CHILDREN=2)  |
| 4 | Three Children in Household              | Respondents who reported having three children. (CHILDREN=3)  |
| 5 | Four Children in Household               | Respondents who reported having four children. (CHILDREN=4)   |
| 6 | Five or More<br>Children in<br>Household | Respondents who reported having five or more children. (5 <= CHILDREN < 87)   |
| 9 | Don't Know/<br>Not Sure/ Missing         | Respondents who reported they did not 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;
```

\_EDUCAG Calculated variable for level of education completed. We derive \_EDUCAG from EDUCA.

| 1 | Did Not Graduate<br>High School                  | Respondents who reported they did not graduate high school. (EDUCA=1,2,3)  |
|---|--|--|
| 2 | Graduated High<br>School                         | Respondents who reported they graduated high school. (EDUCA=4)   |
| 3 | Attended College Or<br>Technical School          | Respondents who reported they attended college or technical school. (EDUCA=5)  |
| 4 | Graduated From<br>College Or Technical<br>School | Respondents who reported they graduated from college or technical school. (EDUCA=6)                                      |
| 9 | Don't Know/<br>Not Sure/ Missing                 | Respondents who reported they did not 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 8: Demographics**

\_INCOMG Calculated variable for income categories. We derive \_INCOMG from INCOME2.

| 1 | Less Than \$15,000                | Respondents whose reported income is less than \$15,000. (INCOME2=1,2)  |
|---|-----------------------------------|---|
| 2 | \$15,000 To Less<br>Than \$25,000 | Respondents whose reported income is \$15,000 to less than \$25,000. (INCOME2=3,4)                              |
| 3 | \$25,000 To Less<br>Than \$35,000 | Respondents whose reported income is \$25,000 to less than \$35,000. (INCOME2=5)                                |
| 4 | \$35,000 To Less<br>Than \$50,000 | Respondents whose reported income is \$35,000 to less than \$50,000. (INCOME2=6)                                |
| 5 | \$50,000 Or More                  | Respondents whose reported income is \$50,000 or more. (INCOME2=7,8)  |
| 9 | Don't Know/<br>Not Sure/ Missing  | Respondents who refused to answer, did not 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 9: Tobacco Use**

\_SMOKER3 Calculated variable for four-level smoker status: everyday smoker, someday smoker, former smoker, non-smoker. We derive \_SMOKER3 from SMOKE100 and SMOKDAY2.

| 1 | Current Smoker<br>Now Smokes Every<br>Day | Respondents who reported having smoked at least 100 cigarettes in their lifetime and now smoke every day. (SMOKE100=1 and SMOKDAY2=1)   |
|---|---|---|
| 2 | Current Smoker<br>Now Smokes Some<br>Days | Respondents who reported having smoked at least 100 cigarettes in their lifetime and now smoke some days. (SMOKE100=1 and SMOKDAY2=2)   |
| 3 | Former Smoker                             | Respondents who reported having smoked at least 100 cigarettes in their lifetime and currently do not smoke. (SMOKE100=1 and SMOKDAY2=3)  |
| 4 | Never Smoked                              | Respondents who reported they had not smoked at least 100 cigarettes in their lifetime. (SMOKE100=2)  |
| 9 | Don't Know/<br>Refused/<br>Missing        | Respondents who reported they didn't know if they had smoked 100 cigarettes in their lifetime; those who refused to answer if they had smoked 100 cigarettes in their lifetime; those who didn't know if they now smoked every day, some days or not at all; those who 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:                                 | <pre>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;</pre>   |

# **Section 9: Tobacco Use**

| _RFSMOK3 | Calculated variable for adults who are current smokers. We derive _RFSMOK3 from |
|----------|---|
|          | _SMOKER3.   |

| _ | _SMOKER3.                          | _  |
|---|------------------------------------|--|
| 1 | No                                 | Respondents who reported they had not smoked at least 100 cigarettes in their lifetime, those who reported having smoked 100 cigarettes in their lifetime but do not currently smoke. (_SMOKER3=3, 4)  |
| 2 | Yes                                | Respondents who reported having smoked at least 100 cigarettes in their lifetime and currently smoke. (_SMOKER3=1, 2)  |
| 9 | Don't Know/<br>Refused/<br>Missing | Respondents who reported they did not know if they had smoked 100 cigarettes in their lifetime; those who refused to answer if they had smoked 100 cigarettes in their lifetime; those who didn't know if they now smoked every day, some days or not at all; those who refused to answer if they now smoked every day, some days or not at all; or those with missing responses. (_SMOKER3=9) |
|   | SAS Code:                          | <pre>IF _SMOKER3 IN (1,2) THEN _RFSMOK3=2; ELSE IF _SMOKER3 IN (3,4) THEN _RFSMOK3=1; ELSE _RFSMOK3=9;</pre>   |

# **Section 10: Alcohol Consumption**

DRNKANY5 Calculated variable for adults who reported having had at least one drink of alcohol in the past 30 days. We derive DRNKANY5 from AKCDAY5.

| 1 | Yes                     | Respondents who reported drinking at least one alcoholic beverage in the past 30 days. (1 <= ALCDAY <= 231)  |
|---|-------------------------|--|
| 2 | No                      | Respondents who reported drinking no alcoholic beverages in the past 30 days. (ALCDAY5=888)  |
| 7 | Don't Know/<br>Not Sure | Respondents who reported not knowing if they drank at least one alcoholic beverage in the past 30 days. (ALCDAY5=777)                              |
| 9 | Refused/Missing         | Respondents who refused to answer or had a missing value for drinking at least one alcoholic beverage in the past 30 days. (ALCDAY5=999, Missing)  |
|   | SAS Code:               | <pre>IF 1 &lt;= ALCDAY5 &lt; 231 THEN DRNKANY5=1; ELSE IF ALCDAY5=888 THEN DRNKANY5=2; ELSE IF ALCDAY5=777 THEN DRNKANY5=7; ELSE DRNKANY5=9;</pre> |

DROCDY3\_ Calculated variable for drink-occasions-per-day. We derive DROCDY3\_ from ALCDAY5 by dividing the ALCDAY5 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. (ALCDAY5=888)  |
|---------|--|--|
| 1 - 899 | Drink-Occasions per<br>Day                     | Respondents reported number of occasions per day that they consumed alcohol. (ALCDAY5 not equal to 777, 888, 999, or missing)  |
| 900     | Don't Know/<br>Not Sure Or Refused/<br>Missing | Respondents who reported they did not know how many days they had at least one drink of alcohol, those who refused to answer how many days they had at least one drink of alcohol, those with missing responses. (ALCDAY5=777, 999, or missing)  |
|         | SAS Code:                                      | <pre>IF ALCDAY5 NOTIN (888,777,999,.) THEN DO; IF 101 LE ALCDAY5 LE 107 THEN DROCDY3_=(ALCDAY5-100)/7; ELSE IF 201 LE ALCDAY5 LE 230 THEN DROCDY3_=(ALCDAY5-200)/30; END; ELSE IF ALCDAY5 EQ 888 THEN DROCDY3_=0; ELSE DROCDY3_=9; * DROCDY3_=round((DROCDY3_*100),1);    *This is done after all of the alcohol calculations but the code is included here;</pre> |

# **Section 10: Alcohol Consumption**

\_RFBING5 Calculated variable for binge drinkers (males having five or more drinks on one occasion, females having four or more drinks on one occasion). We derive \_RFBING5 from DRNK3GE5 and ALCDAY5.

| 1 | No                             | Respondents who reported they did not drink in the past 30 days, or those who reported that they did drink alcohol in the past 30 days but did not report having five or more drinks of alcohol on an occasion. (ALCDAY5<231 and DRNK3GE5=88; or ALCDAY5=888)   |
|---|--------------------------------|---|
| 2 | Yes                            | Respondents who reported they did drink in the past 30 days and had five or more drinks on one or more occasions in the past month. (ALCDAY5<231 and 1<=DRNK3GE5<=76)   |
| 9 | Don't Know/<br>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. (DRNK3GE5=77, 99, missing; or ALCDAY5=777, 999, missing) |
|   | SAS Code:                      | <pre>IF ALCDAY5 NOTIN (888) THEN DO; IF 1 LE DRNK3GE5 LE 76 THEN _RFBING5=2; ELSE IF DRNK3GE5 IN (.,77,99) THEN _RFBING5=9; ELSE IF DRNK3GE5 IN (88) THEN _RFBING5=1; END; ELSE IF ALCDAY5 = 888 THEN _RFBING5=1; ELSE _RFBING5=9;</pre>  |

\_DRNKDY4 Calculated variable for calculated total number of alcoholic beverages consumed per day. We derive DRNKDY4 from DROCDY3 and AVEDRNK2 by multiplying the total number of drink occasions per day (DROCDY3\_) by the average number of drinks per occasion (AVEDRNK2). 0 Did Not Drink Respondents who did not drink in the past month. (DROCDY3\_=0) 1 - 9899 Number Of Drinks Respondents reported number of alcoholic drinks per day. (0 < DROCDY3\_ < 990) Per Day 9900 Don't Know/ 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 Not Sure/ Refused/ Missing 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 DROCDY3 =900) IF DROCDY3\_ = 0 THEN \_DRNKDY4=0; **SAS Code:** ELSE IF DROCDY3\_ = 9 THEN \_DRNKDY4=99; ELSE IF AVEDRNK2 IN (.,77,99) THEN DRNKDY4=99; ELSE \_DRNKDY4=AVEDRNK2 \* DROCDY3\_; \* DRNKDY4=ROUND(( DRNKDY4\*100),1);

## **Section 10: Alcohol Consumption**

\_DRNKMO4 Calculated variable for calculated total number of alcoholic beverages consumed per month. We derive \_DRNKMO4 by multiplying \_DRNKDY4 by 30.

included here;

\*This is done after all of the alcohol calculations but the code is

| 0        | Did not drink in the past month | Respondents who did not consume any drinks of alcohol in the past month. (_DRNKDY4=0)   |
|----------|---------------------------------|---|
| 1 - 9998 | Number of Drinks                | Respondents reported number of alcoholic drinks per day. (0 < _DRNKDY4 < 9900)  |
| 9999     | Don't know/<br>Refused/Missing  | Respondents who reported they did not know if they consumed any drinks of alcohol in the past month, or those who refused to answer if they consumed any drinks of alcohol in the past month. (_DRNKDY4=9900) |
|          | SAS Code:                       | <pre>IF _DRNKDY4 NOTIN (.,99) THEN _DRNKMO4=_DRNKDY4*30; ELSE _DRNKMO4=9999; * _DRNKMO4=ROUND(_DRNKMO4,1); *This is done after all of the alcohol calculations but the code is included here;</pre>           |

\_RFDRHV4 Calculated variable for heavy drinkers (adult men having more than two drinks per day and adult women having more than one drink per day). We derive \_RFDRHV4 from \_DRNKDY4, ALCDAY5, and SEX.

| 1 | No                             | Male respondents who reported having 2 drinks per day or less, or female respondents who reported having 1 drink per day or less. (Sex=1 and _DRNKDY4 <= 200 or Sex=2 and _DRNKDY4 <= 100 or ALCDAY5=888)  |
|---|--------------------------------|--|
| 2 | Yes                            | Male respondents who reported having more than 2 drinks per day, or female respondents who reported having more than 1 drink per day. (Sex=1 and _DRNKDY4 $> 200$ or Sex=2 and _DRNKDY4 $> 100$ )  |
| 9 | Don't Know/<br>Refused/Missing | Respondents with don't know, refused or missing responses for ALCDAY5 or _DRNKDY4. (ALCDAY5=777, 999, or missing, or _DRNKDY43=99, or missing)   |
|   | SAS Code:                      | <pre>IF SEX=1 AND _DRNKDY4 NOTIN (99,.) THEN DO; IF _DRNKDY4 GT 2 THEN _RFDRHV4=2; ELSE IF _DRNKDY4 LE 2 THEN _RFDRHV4=1; END; ELSE IF SEX=2 AND _DRNKDY4 NOTIN (99,.) THEN DO; IF _DRNKDY4 GT 1 THEN _RFDRHV4=2; ELSE IF _DRNKDY4 LE 1 THEN _RFDRHV4=1; END; ELSE IF ALCDAY5 EQ 888 THEN _RFDRHV4=1; ELSE _RFDRHV4=9;</pre> |

# **Section 10: Alcohol Consumption**

\_RFDRMN4 Calculated variable for adult men who are heavy drinkers (having more than two drinks per day). We derive \_RFDRMN4 from \_DRNKDY4 and SEX and ALCDAY5.

| 1 | No                             | Male respondents who reported having 2 drinks per day or less. (SEX=1 and _DRNKDY4 <= 200 or ALCDAY5=888)   |
|---|--------------------------------|---|
| 2 | Yes                            | Male respondents who reported having more than 2 drinks per day. (SEX=1 and $\_DRNKDY4 > 200$ )   |
| 9 | Don't know/<br>Refused/Missing | Male respondents with don't know, refused or missing responses for ALCDAY5 or _DRNKDY4. (SEX=1 and ALCDAY5=777, 999, or missing, or _DRNKDY4=99, or missing)  |
| • | Respondent is female           | Female respondents. (SEX=2)   |
|   | SAS Code:                      | <pre>IF SEX=1 THEN DO; IF _DRNKDY4 NOTIN (99,.) THEN DO; IF _DRNKDY4 GT 2 THEN _RFDRMN4=2; ELSE IF _DRNKDY4 LE 2 THEN _RFDRMN4=1; END; ELSE IF ALCDAY5 IN (888) THEN _RFDRMN4=1; ELSE _RFDRMN4=9; END; ELSE IF SEX=2 THEN _RFDRMN4=.;</pre> |

\_RFDRWM4 Calculated variable for adult women who are heavy drinkers (having more than one drink per day). We derive RFDRWM4 from DRNKDY4 and SEX and ALCDAY5.

| 1 | No                             | Female Respondents who reported having 1 drink per day or less. (SEX=2 and _DRNKDY4 <= 200 or ALCDAY5=888)   |
|---|--------------------------------|--|
| 2 | Yes                            | Female Respondents who reported having more than 1 drink per day. (SEX=2 and _DRNKDY4 $>$ 200)   |
| 9 | Don't know/<br>Refused/Missing | Female respondents with don't know, refused or missing responses for ALCDAY5 or _DRNKDY4. (SEX=2 and ALCDAY5=777, 999, or missing, or _DRNKDY4=99, or missing) |

Respondent is male Male respondents. (SEX=1)

```
SAS Code:
    IF SEX=2 THEN DO;
        IF _DRNKDY4 NOTIN (99,.) THEN DO;
        IF _DRNKDY4 GT 1 THEN _RFDRWM4=2;
        ELSE IF _DRNKDY4 LE 1 THEN _RFDRWM4=1;
        END;
        ELSE IF ALCDAY5 IN (888) THEN _RFDRWM4=1;
        ELSE _RFDRWM4=9;
        END;
        Else IF SEX=1 THEN _RFDRWM4=.;
        ** ROUND OFF _DRNKMO4 TO NO DECIMAL PLACES ** MULTIPLY _DRNKDY4 BY 100 AND THEN ROUND OFF TO NO DECIMAL PLACES AND THEN REMOVE THE DECIMAL PLACES **;
        DROCDY3_=round((DROCDY3_*100),1);
        _DRNKMO4=ROUND(_DRNKMO4,1);
        DRNKDY4=ROUND((_DRNKMO4,1);
        DRNKDY4=ROUND((_DRNKMO4,1));
        DRNKDY4=ROUND((_DRNKMO4,1));
```

FTJUDA1\_ Calculated variable for fruit juice intake in times per day. FTJUDA1\_ converts the FRUITJU1 variable to a per day response. (Two implied decimal places)

0 - 9999 Times per day Respondents reported intake of fruit juice per day (FRUITJU1 not equal to 777,999, or missing)

Don't know/ Resp

Not Sure Or Refused/Missing Respondents who reported they did not know the number of times fruit juice was consumed per day, those who refused to answer, and those with missing responses (FRUITJU1=777,999, or missing)

SAS Code: IF 100 < FRUITJU1 < 200 THEN FTJUDA1\_=FRUITJU1-100;

ELSE IF 200 < FRUITJU1 < 300 THEN
FTJUDA1\_=(ROUND((FRUITJU1-200)/7,0.01));
ELSE IF 300 < FRUITJU1 < 400 THEN</pre>

FTJUDA1\_=(ROUND((FRUITJU1-300)/30,0.01)); ELSE IF FRUITJU1 = 555 THEN FTJUDA1\_=0;

ELSE IF FRUITJU1 = 300 THEN FTJUDA1\_=0.02; ELSE IF FRUITJU1 IN (.,777,999) THEN FTJUDA1\_=.;

\*\* ROUND OFF \*\*;

FTJUDA1\_=round((FTJUDA1\_\*100),1);

#### Section 11: Fruits & Vegetables

FRUTDA1\_ Calculated variable for fruit intake in times per day. FRUTDA1\_ converts the FRUIT1 variable to a per day response. (Two implied decimal places)

0 - 9999 Times per day Respondents reported intake of fruit per day (FRUIT1 not equal to 777,999, or missing)

Don't know/ Not Sure Or Refused/Missing

Respondents who reported they didn't know the number of times fruit was consumed per day, those who refused to answer, and those with missing responses (FRUIT1=777, 999, or missing)

SAS Code: IF 100 < FRUIT1 < 200 THEN FRUTDA1\_=FRUIT1-100;

ELSE IF 200 < FRUIT1 < 300 THEN
FRUTDA1\_=(ROUND((FRUIT1-200)/7,0.01));
ELSE IF 300 < FRUIT1 < 400 THEN

FRUTDA1\_=(ROUND((FRUIT1-300)/30,0.01)); ELSE IF FRUIT1 = 555 THEN FRUTDA1 =0;

ELSE IF FRUIT1 = 300 THEN FRUTDA1\_=0.02; ELSE IF FRUIT1 IN (.,777,999) THEN FRUTDA1\_=.;

\*\* ROUND OFF \*\*;

FRUTDA1\_=round((FRUTDA1\_\*100),1);

BEANDAY\_ Calculated variable for bean intake in times per day. BEANDAY\_ converts the FVBEANS variable to a per day response (Two implied decimal places)

0 - 9999 Times per day Respondents reported intake of beans per day (FVBEANS not equal to 777, 999, or

missing)

Don't know/ Missing

Respondents who reported they didn't know the number of times beans were Not Sure Or Refused/ consumed per day, those who refused to answer, and those with missing responses (FVBEANS=777, 999, or missing)

**SAS Code:** 

```
IF 100 < FVBEANS < 200
                         THEN BEANDAY = FVBEANS-100;
ELSE IF 200 < FVBEANS < 300
                              THEN
BEANDAY_=(ROUND((FVBEANS-200)/7,0.01));
ELSE IF 300 < FVBEANS < 400 THEN
BEANDAY_=(ROUND((FVBEANS-300)/30,0.01));
ELSE IF FVBEANS = 555 THEN BEANDAY_=0;
ELSE IF FVBEANS = 300 THEN BEANDAY =0.02;
ELSE IF FVBEANS IN (.,777,999) THEN BEANDAY_=.;
** ROUND OFF **;
BEANDAY_=round((BEANDAY_*100),1);
```

#### Section 11: Fruits & Vegetables

GRENDAY\_ Calculated variable for dark green vegetable intake in times per day. GRENDAY\_ converts the FVGREEN variable to a per day response (Two implied decimal places)

0 - 9999Respondents reported intake of dark green vegetables per day (FVGREEN not equal Times per day to 777,999, or missing)

Don't know/ Missing

Respondents who reported they did not know the number of times dark green Not Sure Or Refused/ vegetables were consumed per day, those who refused to answer, and those with missing responses (FVGREEN=777,999, or missing)

**SAS Code:** 

```
IF 100 < FVGREEN < 200 THEN GRENDAY_=FVGREEN-100;</pre>
ELSE IF 200 < FVGREEN < 300 THEN
GRENDAY_=(ROUND((FVGREEN-200)/7,0.01));
ELSE IF 300 < FVGREEN < 400 THEN
GRENDAY_=(ROUND((FVGREEN-300)/30,0.01));
ELSE IF FVGREEN = 555 THEN GRENDAY_=0;
ELSE IF FVGREEN = 300 THEN GRENDAY_=0.02;
ELSE IF FVGREEN IN (.,777,999) THEN GRENDAY_=.;
** ROUND OFF **;
GRENDAY =round((GRENDAY *100),1);
```

ORNGDAY\_ Calculated variable for orange-colored vegetable intake in times per day. ORNGDAY\_ converts the FVORANG variable to a per day response (Two implied decimal places)

0 - 9999 Times per day Respondents reported intake of orange-colored vegetables per day (FVORANG not

equal to 777,999, or missing)

Don't know/ Respondents who reported they didn't know the number of times orange-colored Not Sure Or Refused/ vegetables were consumed per day, those who refused to answer, and those with Missing missing responses (FVORANG=777,999, or missing)

IF 100 < FVORANG < 200 THEN ORNGDAY =FVORANG-100; **SAS Code:** 

ELSE IF 200 < FVORANG < 300 THEN ORNGDAY\_=(ROUND((FVORANG-200)/7,0.01)); ELSE IF 300 < FVORANG < 400 THEN

ORNGDAY\_=(ROUND((FVORANG-300)/30,0.01)); ELSE IF FVORANG = 555 THEN ORNGDAY\_=0; ELSE IF FVORANG = 300 THEN ORNGDAY =0.02;

ELSE IF FVORANG IN (.,777,999) THEN ORNGDAY\_=.;

\*\* ROUND OFF \*\*;

ORNGDAY\_=round((ORNGDAY\_\*100),1);

#### Section 11: Fruits & Vegetables

VEGEDA1\_ Calculated variable for vegetable intake in times per day. VEGEDA1\_ converts the VEGETAB1 variable to a per day response. (Two implied decimal places)

0 - 9999Times per day Respondents reported intake of other vegetables per day (VEGETAB1 not equal to

777, 999, or missing)

Don't know/ Respondents who reported they did not know the number of times other Not Sure Or vegetables were consumed per day, those who refused to answer, and those with Refused/Missing missing responses (VEGETAB1=777, 999, or missing)

IF 100 < VEGETAB1 < 200 THEN VEGEDA1 = VEGETAB1-100; **SAS Code:** 

ELSE IF 200 < VEGETAB1 < 300 THEN VEGEDA1 = (ROUND((VEGETAB1-200)/7, 0.01));ELSE IF 300 < VEGETAB1 < 400 THEN

VEGEDA1\_=(ROUND((VEGETAB1-300)/30,0.01)); ELSE IF VEGETAB1 = 555 THEN VEGEDA1\_=0;

ELSE IF VEGETAB1 = 300 THEN VEGEDA1\_=0.02;

ELSE IF VEGETAB1 IN (.,777,999) THEN VEGEDA1\_=.;

\*\* ROUND OFF \*\*;

VEGEDA1 =round((VEGEDA1 \*100),1);

\_MISFRTN Calculated variable for the number of missing fruit responses. We derive \_MISFRTN from MFTJUDA1\_ and MFRUTDA1\_.

No missing fruit Respondents with no missing fruit responses responses

1 - 2 Has 1 or 2 missing Respondents with missing fruit responses fruit responses

SAS Code: IF FTJUDA1\_=. THEN MFTJUDA1\_=1;
ELSE MFTJUDA1\_=0;
IF FRUTDA1\_=. THEN MFRUTDA1\_=1;
ELSE MFRUTDA1\_=0;

## **Section 11: Fruits & Vegetables**

\_MISVEGN Calculated variable for the number of missing vegetable responses. We derive \_MISVEGN from MGRENDAY\_, MORNGDAY\_, MBEANDAY\_ and MVEGEDA1\_.

\_MISFRTN=SUM(MFTJUDA1\_, MFRUTDA1\_);

- No missing Respondents with no missing vegetable responses vegetable responses
- 1 4 Has 1, 2, 3, or 4 Respondents with missing vegetable responses responses

SAS Code: IF GRENDAY\_=. THEN MGRENDAY\_=1; ELSE MGRENDAY\_=0;

IF ORNGDAY\_=. THEN MORNGDAY\_=1;

ELSE MORNGDAY\_=0;

IF BEANDAY\_=. THEN MBEANDAY\_=1;

ELSE MBEANDAY\_=0;

IF VEGEDA1\_=. THEN MVEGEDA1\_=1;

ELSE MVEGEDA1\_=0;

MISVEGN=SUM(MGRENDAY , MORNGDAY , MBEANDAY , MVEGEDA1 );

\_FRTRESP Calculated variable for missing any fruit responses. \_FRTRESP is derived from \_MISFRTN.

Not Included-- Respondents with a missing value for one of the fruit variables (1<=\_MISFRTN<=2)
Missing Fruit

Responses

1 Included -- Not Respondents with no missing fruit variables (\_MISFRTN=0)

Missing Fruit Responses

**SAS Code:** \_FRTRESP=0;

IF 1<=\_MISFRTN<=2 THEN \_FRTRESP=0;
ELSE IF \_MISFRTN=0 THEN \_FRTRESP=1;</pre>

# Section 11: Fruits & Vegetables

\_VEGRESP Calculated variable for missing any vegetable responses. We derive \_VEGRESP from GRENDAY\_, ORNGDAY\_, BEANDAY\_, VEGEDA1\_ and \_MISVEGN.

- O Not Included Respondents with missing vegetable per day values (1<=\_MISVEGN<=4)
  Missing Vegetable
  Responses
- 1 Included-- Respondents with no missing vegetable per day values (\_MISVEGN=0)
  Not Missing
  Vegetable Responses
  - Not asked or Missing Respondents with a 99 value for all vegetable per day variables.

```
SAS Code:     _VEGRESP=0;
     IF 1<=_MISVEGN<=4 THEN _VEGRESP=0;
     ELSE IF _MISVEGN=0 THEN _VEGRESP=1;</pre>
```

#### **Section 11: Fruits & Vegetables**

\_FRUTSUM Calculated variable for total fruits consumed per day. We derived \_FRUTSUM from the individual fruit variables (FTJUDA1\_, FRUTDA1\_). We exclude values for don't know, refused, or missing" (99) from the sum.

- 0 Number of Fruits Number of Fruits consumed per day (two implied decimal places)
  99998 consumed per day (FTJUDA1\_+FRUTDA1\_)
  (two implied decimal places)
  - Not asked or Missing Respondents with a 99 value for all four fruits per day variables.

```
SAS Code: _FRUTSUM= (FTJUDA1_/100)+ (FRUTDA1_/100); 
 _FRUTSUM=round((_FRUTSUM*100),1);
```

- \_VEGESUM Calculated variable for total vegetables consumed per day. We derive \_VEGESUM from the individual vegetable variables (GRENDAY\_, ORNGDAY\_, BEANDAY\_, and VEGEDA1\_). We exclude values for don't know, refused, or missing" (99) from the sum.
- 0 Number of Sum of all vegetable per day values (two implied decimal places)
  99998 Vegetables consumed (GRENDAY\_+ORNGDAY\_+BEANDAY\_+VEGEDA1\_)
  per day (two implied decimal places)
  - Not asked or Missing Respondents with a 99 value for all vegetable per day variables.

## Section 11: Fruits & Vegetables

- \_FRTLT1 Calculated variable for consume fruit 1 or more times per day. We derive \_FRT1LT from FRUTSUM.
  - Consumed fruit one Respondents that reported consuming Fruit 1 or more times a day (\_FRUTSUM/100 or more times per day >=1)
  - Consumed fruit less Respondents that reported consuming Fruit less than 1 time a day (\_FRUTSUM/100 than one time per day < 1)
  - 9 Don't know, refused Respondents with don't know, not sure, refused or missing responses or missing values (\_FRUTSUM=.)

```
SAS Code: IF 0 <= (_FRUTSUM/100) < 1 THEN _FRTLT1=2;

ELSE IF (_FRUTSUM/100) >= 1 THEN _FRTLT1=1;

ELSE FRTLT1=9;
```

#### Section 11: Fruits & Vegetables

- - Consumed Respondents who reported consuming vegetables 1 or more times a day (\_VEGESUM/100 >=1)
    more times per day
  - Consumed Respondents that reported consuming vegetables less than 1 time a day vegetables less than (VEGESUM/100 < 1) one time per day
  - 9 Don't know, refused Respondents with don't know, not sure, refused or missing responses or missing values (\_VEGESUM=.)
    - SAS Code: IF 0 <= (\_VEGESUM/100) < 1 THEN \_VEGLT1=2; ELSE IF (\_VEGESUM/100) >= 1 THEN \_VEGLT1=1; ELSE \_VEGLT1=9;

#### **Section 11: Fruits & Vegetables**

- \_FRT16 *Calculated variable for reported consuming fruit >16 per day.* We derive \_FRT16 is derived from FRUTSUM.
  - Not Included-- Respondents with an out-of-range value for sum of fruits per day (\_FRUTSUM>16)
    Values are too high
  - Included--Values are Respondents with value for sum of fruits per day in acceptable range in accepted range (\_FRUTSUM<=16)
  - Not asked or Missing Respondents with a 99 value for both fruit per day variables.

SAS Code: IF (\_FRUTSUM/100)>16 THEN \_FRT16=0; ELSE IF (\_FRUTSUM/100)<=16 THEN \_FRT16=1;

#### Section 11: Fruits & Vegetables

- \_VEG23 Calculated variable for reported consuming vegetables >23 per day. We derive \_VEG23 from VEGESUM.
  - Not Included-- Respondents with an out-of-range value for sum of vegetables per day Values are too high (\_VEGESUM>23)
  - Included--Values are Respondents with value for sum of vegetables per day in acceptable range in accepted range (\_VEGESUM<=23)
  - . Not asked or Missing Respondents with a 99 value for all vegetable per day variables.

SAS Code: IF (\_VEGESUM/100)>23 THEN \_VEG23=0; ELSE IF (\_VEGESUM/100)<=23 THEN \_VEG23=1;

#### **Section 11: Fruits & Vegetables**

\_FRUITEX Calculated variable for fruit exclusion from analyses. We derive \_FRUITEX from \_FRTRESP.

- No missing values Respondents with no missing fruit values and in accepted range (\_FRTRESP=1 AND and in accepted range \_FRT16=1)
- 1 Missing Fruit Respondents missing at least one fruit per day value (\_FRTRESP=0) responses
- Fruit values out of range Respondents with an out-of-range value for sum of fruits per day (\_FRTRESP=1 AND \_FRT16=0)
- Not asked or Missing Respondents with a 99 value for both fruit per day variables.

#### **Section 11: Fruits & Vegetables**

- \_VEGETEX Calculated variable for vegetable exclusion from analyses. We derive \_VEGETEX from \_VEGRESP and \_VEG23.
  - No missing values Respondents with no missing vegetable per day values and in all accepted range (\_VEGRESP=1 AND \_VEG23=1)
  - 1 Missing vegetable Respondents with missing vegetable per day values (\_VEGRESP=0) responses
  - Vegetable values out Respondents with out-of-range vegetable per day values (\_VEGRESP=1 AND of range \_\_VEG23=0)
  - Not asked or Missing Respondents with a 99 value for all vegetable per day variables.

```
SAS Code: IF _VEGRESP=1 AND _VEG23=0 THEN _VEGETEX=2;

ELSE IF _VEGRESP=1 AND _VEG23=1 THEN _VEGETEX=0;

ELSE _VEGETEX=1;
```

\_TOTINDA Calculated variable for adults who reported doing physical activity or exercise during the past 30 days other than their regular job. We derive \_TOTINDA from EXERANY2.

- Had physical activity Respondents who reported doing any physical activity or exercise. (EXERANY2=1) or exercise
- No physical activity Respondents who reported doing no physical activity or exercise. (EXERANY2=2) or exercise in last 30

days

9 Don't know/ Refused/Missing Respondents who reported they didn't know or 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;

**SAS Code:** 

METVL11\_ Calculated variable for activity met value for first activity. We derive METVL11\_ from EXRACT11.

- O Activity MET Value Estimated first activity MET value
- 1 128 Activity MET Value Estimated first activity MET value (one implied decimal place)
  - Not asked or Missing Respondents with a don't know, refused or missing value for the first activity (EXRACT11=(77,99, missing))

```
IF EXRACT11 IN (34,60,67,69) THEN METVL11_=0;
ELSE IF EXRACT11 IN (47) THEN METVL11_=2.5;
ELSE IF EXRACT11 IN (13,17,56,63) THEN METVL11_=3;
ELSE IF EXRACT11 IN (33,73) THEN METVL11_=3.3;
ELSE IF EXRACT11 IN (16,19,64,71) THEN METVL11 =3.5;
ELSE IF EXRACT11 IN (1,9,11,36) THEN METVL11_=3.8;
ELSE IF EXRACT11 IN (59,76) THEN METVL11_=4;
ELSE IF EXRACT11 IN (20,75) THEN METVL11 =4.3;
ELSE IF EXRACT11 IN (72) THEN METVL11 =4.8;
ELSE IF EXRACT11 IN (15,18,26,43,46,52) THEN METVL11_=5;
ELSE IF EXRACT11 IN (48,50) THEN METVL11_=5.3;
ELSE IF EXRACT11 IN (4,24,31) THEN METVL11 =5.5;
ELSE IF EXRACT11 IN (8,58) THEN METVL11_=5.8;
ELSE IF EXRACT11 IN (22,25,32,37,55,57,66,68) THEN METVL11 =6;
ELSE IF EXRACT11 IN (41) THEN METVL11 =6.3;
ELSE IF EXRACT11 IN (5) THEN METVL11 =6.5;
ELSE IF EXRACT11 IN (6,7) THEN METVL11_=6.8;
ELSE IF EXRACT11 IN (3,28,35,40,42,44,45,49,51) THEN METVL11_=7;
ELSE IF EXRACT11 IN (2,53,61) THEN METVL11_=7.3;
ELSE IF EXRACT11 IN (14) THEN METVL11_=7.8;
ELSE IF EXRACT11 IN (23,29,30,38,62) THEN METVL11_=8;
ELSE IF EXRACT11 IN (54) THEN METVL11_=9;
ELSE IF EXRACT11 IN (27) THEN METVL11 =9.8;
ELSE IF EXRACT11 IN (74) THEN METVL11 =10.3;
ELSE IF EXRACT11 IN (39) THEN METVL11 =11;
ELSE IF EXRACT11 IN (21) THEN METVL11 =12;
ELSE IF EXRACT11 IN (12) THEN METVL11_=12.5;
```

ELSE IF EXRACT11 IN (10) THEN METVL11\_=12.8; ELSE IF EXRACT11 IN (98) THEN METVL11 =4.5;

METVL11\_=(ROUND(METVL11\_,0.1))\*10;

METVL21\_ Calculated variable for activity met value for second activity. We derive METVL21\_ from EXRACT21.

- O Activity MET Value Estimated second activity MET value
- 1 128 Activity MET Value Estimated second activity MET value (one implied decimal place)
  - Not asked or Missing Respondents with a don't know, refused or missing value for the second activity (EXRACT21=(77,99, missing))

**SAS Code:** 

```
IF EXRACT21 IN (34,60,67,69,88) THEN METVL21 =0;
ELSE IF EXRACT21 IN (47) THEN METVL21_=2.5;
ELSE IF EXRACT21 IN (13,17,56,63) THEN METVL21_=3;
ELSE IF EXRACT21 IN (33,73) THEN METVL21_=3.3;
ELSE IF EXRACT21 IN (16,19,64,71) THEN METVL21_=3.5;
ELSE IF EXRACT21 IN (1,9,11,36) THEN METVL21_=3.8;
ELSE IF EXRACT21 IN (59,76) THEN METVL21 =4;
ELSE IF EXRACT21 IN (20,75) THEN METVL21 =4.3;
ELSE IF EXRACT21 IN (72) THEN METVL21 =4.8;
ELSE IF EXRACT21 IN (15,18,26,43,46,52) THEN METVL21 =5;
ELSE IF EXRACT21 IN (48,50) THEN METVL21 =5.3;
ELSE IF EXRACT21 IN (4,24,31) THEN METVL21_=5.5;
ELSE IF EXRACT21 IN (8,58) THEN METVL21_=5.8;
ELSE IF EXRACT21 IN (22,25,32,37,55,57,66,68) THEN METVL21 =6;
ELSE IF EXRACT21 IN (41) THEN METVL21 =6.3;
ELSE IF EXRACT21 IN (5) THEN METVL21 =6.5;
ELSE IF EXRACT21 IN (6,7) THEN METVL21 =6.8;
ELSE IF EXRACT21 IN (3,28,35,40,42,44,45,49,51) THEN METVL21_=7;
ELSE IF EXRACT21 IN (2,53,61) THEN METVL21_=7.3;
ELSE IF EXRACT21 IN (14) THEN METVL21_=7.8;
ELSE IF EXRACT21 IN (23,29,30,38,62) THEN METVL21_=8;
ELSE IF EXRACT21 IN (54) THEN METVL21_=9;
ELSE IF EXRACT21 IN (27) THEN METVL21_=9.8;
ELSE IF EXRACT21 IN (74) THEN METVL21_=10.3;
ELSE IF EXRACT21 IN (39) THEN METVL21 =11;
ELSE IF EXRACT21 IN (21) THEN METVL21 =12;
ELSE IF EXRACT21 IN (12) THEN METVL21 =12.5;
ELSE IF EXRACT21 IN (10) THEN METVL21 =12.8;
ELSE IF EXRACT21 IN (98) THEN METVL21_=4.5;
METVL21 = (ROUND(METVL21 , 0.1))*10;
```

MAXVO2\_ Calculated variable for estimated age-gender specific maximum oxygen consumption. We derive MAXVO2 from SEX and AGE.

0 –501 Estimated Maximum Respondents estimated maximum oxygen consumption ((IF (SEX=1) THEN Oxygen Consumption MAXVO2\_=60-(.55\*AGE)) or (IF (SEX=2) THEN MAXVO2\_=48-(.37\*AGE)))

(two implied

decimal places)

99900 Don't know/ Respondents with a missing value for age

Not Sure/Refused/ Missing

**SAS Code:** MAXVO2\_=999;

IF (18<= AGE <=99 & (SEX=1 OR SEX=2))THEN DO;

IF (SEX=1) THEN MAXVO2\_=60-(.55\*AGE);
ELSE IF (SEX=2) THEN MAXVO2\_=48-(.37\*AGE);

END;

MAXVO2\_=(ROUND(MAXVO2\_,0.01)\*100);

### **Section 12: Exercise (Physical Activity)**

FC60\_ Calculated variable for estimated functional capacity. We derive FC60\_ from MAXVO2\_.

0–8590 Estimated Respondents estimated functional capacity

Functional Capacity ((ROUND((.60\*(MAXVO2\_/100)/3.5),0.01))\*100) (2 implied decimal

places)

99900 Don't know/ Respondents with no estimate for functional capacity

Not Sure/ Refused/ Missing

**SAS Code:** IF  $(0 < MAXVO2_/100 < 55)$  THEN FC60\_= $(.60*(MAXVO2_/100))/3.5;$ 

ELSE FC60\_=999;

FC60\_=(ROUND(FC60\_,0.01))\*100;

ACTIN11\_ Calculated variable for estimated activity intensity for first activity. We derive ACTIN11\_ from FC60\_ and METVL11\_.

| 0 | Not Moderate or<br>Vigorous or No<br>Activity | Respondent reported first activity to be one with estimated intensity not moderate or vigorous ((METVL11_/10>=0)). |
|---|---|--|
| 1 | Moderate                                      | Respondent reported first activity to be one with moderate estimated intensity ((METVL11_/10>=3.0)).               |
| 2 | Vigorous                                      | Respondent reported first activity to be one with vigorous estimated intensity $((METVL11_/10 >= FC60_/100))$ .    |
| • | Not asked or Missing                          | Respondent reported first activity to be one with no estimated intensity.  |
|   | SAS Codo:                                     | IF FC60 < 99900 THEN DO:   |

```
IF FC60_ < 99900 THEN DO;

IF ((METVL11_/10) >= (FC60_/100)) THEN ACTIN11_=2;

ELSE IF ((METVL11_/10) >= 3.0) THEN ACTIN11_=1;

ELSE IF ((METVL11_/10) >= 0) THEN ACTIN11_=0;

END;
```

## **Section 12: Exercise (Physical Activity)**

ACTIN21\_ Calculated variable for estimated activity intensity for second activity. We derive ACTIN21\_ from FC60\_ and METVL21\_.

| 0 | Not Moderate or<br>Vigorous or No<br>Activity | Respondent reported second activity to be one with estimated intensity not moderate or vigorous ((METVL21_/10>=0)). |
|---|---|---|
| 1 | Moderate                                      | Respondent reported second activity to be one with moderate estimated intensity ((METVL21_/10>=3.0)).               |
| 2 | Vigorous                                      | Respondent reported second activity to be one with vigorous estimated intensity ((METVL21_/10 >= FC60_/100)).       |

Not asked or Missing Respondent reported second activity to be one with no estimated intensity

```
SAS Code:
    IF FC60_ < 99900 THEN DO;
    IF ((METVL21_/10) >= (FC60_/100)) THEN ACTIN21_=2;
    ELSE IF ((METVL21_/10) >= 3.0) THEN ACTIN21_=1;
    ELSE IF ((METVL21_/10) >= 0) THEN ACTIN21_=0;
    END;
```

PADUR1\_ Calculated variable for minutes of first activity. We derive PADUR1\_ from EXERHMM1.

(EXERHMM1-INT(EXERHMM1/100)\*100))

Not asked or Missing Respondents who reported they didn't know, refused or had a missing value for

EXERHMM1 (EXERHMM1= (777,999, missing))

SAS Code: IF EXERHMM1 NOTIN (777,999,.) THEN DO;

PADUR1\_=INT(EXERHMM1/100)\*60 + (EXERHMM1-INT(EXERHMM1/100)\*100);

END;

### **Section 12: Exercise (Physical Activity)**

PADUR2 Calculated variable for minutes of second activity. We derive PADUR2 from EXERHMM2.

0 – 599 Minutes of Activity Respondents number of minutes of second activity (INT(EXERHMM2/100)\*60 +

(EXERHMM2-INT(EXERHMM2/100)\*100))

. Not asked or Missing Respondents who reported they didn't know, refused or had a missing value for

EXERHMM2 (EXERHMM2= (777,999,.))

SAS Code: IF EXERHMM2 NOTIN (777,999,.) THEN DO;

PADUR2\_=INT(EXERHMM2/100)\*60 + (EXERHMM2-INT(EXERHMM2/100)\*100);

END;

#### **Section 12: Exercise (Physical Activity)**

decimal places)

PAFREQ1\_ Calculated variable for physical activity frequency per week for first activity. We derive PAFREQ1\_ from EXERANY2 and EXEROFT1.

0 – Activity times per Respondents report times per week for the first activity (EXERANY2=1 and (101 <= 98999 week (3 implied EXEROFT1 <= 199) or (201 <= EXEROFT1 <= 299)).

. Not asked or Missing Respondents whot did not report doing the first activity or did not know, refused,

or had a missing value for EXEROFT1 ((EXERANY2=1 and EXEROFT1 =

(777,999,missing)) or (EXERANY2=2,7,9,missing))

SAS Code: IF EXERANY2=1 AND EXEROFT1 NOTIN (777,999,.) THEN DO;

IF (101 <= EXEROFT1 <= 199) THEN PAFREQ1 =EXEROFT1-100;

ELSE IF (201 <= EXEROFT1 <= 299) THEN PAFREQ1\_=(EXEROFT1-200)/(30/7);

END;

ELSE PAFREQ1\_=.;

PAFREQ1\_=(ROUND(PAFREQ1\_,.001))\*1000;

PAFREQ2\_ Calculated variable for physical activity frequency per week for second activity. We derive PAFREQ2\_ from EXERANY2 and EXEROFT2.

0 – Activity times per Respondents report times per week for the second activity (EXERANY2=1 and (101 98999 week (3 implied decimal places) = EXEROFT2 <= 199) or (201 <= EXEROFT2 <= 299))

Not asked or Missing Respondents who did not report doing the second activity or didn't know, refused or had a missing value for EXEROFT2 ((EXERANY2=1 and EXEROFT2 =

(777,999,missing)) or (EXERANY2=2,7,9,missing))

SAS Code: IF EXERANY2=1 AND EXEROFT2 NOTIN (777,999,.) THEN DO;
IF (101 <= EXEROFT2 <= 199) THEN PAFREQ2\_=EXEROFT2-100;
ELSE IF (201 <= EXEROFT2 <= 299) THEN PAFREQ2\_=(EXEROFT2-200)/(30/7);
END;

END;

ELSE PAFREQ2\_=.;

PAFREQ2\_=(ROUND(PAFREQ2\_,.001))\*1000;

#### **Section 12: Exercise (Physical Activity)**

\_MINAC11 Calculated variable for minutes of physical activity per week for first activity. We derive \_MINAC11 from PADUR1\_, PAFREQ1\_, ACTIN11\_ and EXRACT11.

0 Minutes of Activity Respondents who reported doing zero minutes of first activity per week per week ((PADUR1\_>=0 AND PADUR1\_<10) or (PADUR2\_=. AND ACTIN21\_=0))

1 – Minutes of Activity Respondents who reported doing one or more minutes of first activity per week 99999 per week (ROUND((PAFREQ1\_/1000)\*PADUR1\_,1))

Not asked or Missing Respondents who reported they didn't know, refused or had a missing value for the number of minutes per week for the first activity

SAS Code: IF PADUR1\_>=10 THEN \_MINAC11=ROUND((PAFREQ1\_/1000)\*PADUR1\_,1);
ELSE IF (PADUR1\_>=0 AND PADUR1\_<10) THEN \_MINAC11=0;
IF (ACTIN11\_=0) THEN \_MINAC11=0;
IF EXRACT11 IN (34,60,67,69) THEN \_MINAC11=0;

### **Section 12: Exercise (Physical Activity)**

\_MINAC21 Calculated variable for minutes of physical activity per week for second activity. We derive \_MINAC21 from PADUR1\_, PAFREQ1\_, ACTIN21\_ and EXRACT21.

0 Minutes of Activity Respondents who reported doing zero minutes of second activity per week per week ((PADUR2\_>=0 AND PADUR2\_<10) or (PADUR2\_=. AND ACTIN21\_=0))

1 – Minutes of Activity Respondents who reported doing one or more minutes of second activity per week (ROUND((PAFREQ2\_/1000)\*PADUR2\_))

Not asked or Missing Respondents who reported they did not know, refused, or had a missing value for the number of minutes per week for the second activity

SAS Code: IF PADUR2\_>=10 THEN \_MINAC21=ROUND((PAFREQ2\_/1000)\*PADUR2\_);
ELSE IF (PADUR2\_>=0 AND PADUR2\_<10) THEN \_MINAC21=0;
IF (ACTIN21\_=0) THEN \_MINAC21=0;
IF EXRACT21 IN (34,60,67,69,88) THEN \_MINAC21=0;

STRFREQ\_ Calculated variable for strength activity frequency per week. We derive STRFREQ\_ from STRENGTH.

0 – Strength Activity Respondents reported times per week for strengthening activity times per week (3 implied decimal places)

Not asked or Missing Respondents who did not report doing any strengthening activity or did not know,

refused, or had a missing value for STRENGTH

SAS Code: IF STRENGTH IN (777,999,.) THEN STRFREQ\_=.; ELSE IF (STRENGTH < 200) THEN STRFREQ =STRENGTH-100;

ELSE IF (200 < STRENGTH < 300)THEN STRFREQ = (STRENGTH-200)/(30/7);

ELSE IF (STRENGTH = 888)THEN STRFREQ\_=0; STRFREQ\_=(ROUND(STRFREQ\_,.001))\*1000;

### **Section 12: Exercise (Physical Activity)**

PAMISS1\_ Calculated variable for missing physical activity data. We derive PAMISS1\_ from ACTIN11\_, \_MINAC11, ACTIN21\_, \_MINAC21 and EXERANY2.

| 0 | Not Missing<br>Physical Activity<br>Data | Respondents with no missing physical activity data ((NMISS(ACTIN11_,_MINAC11,ACTIN21_,_MINAC21)=0 AND EXERANY2=1) or EXERANY2=2)                                   |
|---|--|--|
| 1 | Missing Physical<br>Activity Data        | Respondents with missing physical activity data ((NMISS(ACTIN11_,_MINAC11,ACTIN21_,_MINAC21)>0 AND EXERANY2=1))  |
| 9 | Don't know/<br>Not Sure/ Refused         | Respondents that didn't know or refused to answer if they did any activity   |
|   | SAS Code:                                | <pre>IF (NMISS(ACTIN11_,_MINAC11,ACTIN21_,_MINAC21)&gt;0 AND EXERANY2=1) THEN PAMISS1_=1; ELSE IF EXERANY2=1 OR EXERANY2=2 THEN PAMISS1_=0; ELSE PAMISS1_=9;</pre> |

- PAMIN11\_ Calculated variable for minutes of physical activity per week for first activity. We derive PAMIN11\_ from ACTIN11 and MINAC11.
- 0 Minutes of Activity Respondents minutes of first activity or vigorous equivalent minutes per week
  - . Not asked or Missing Respondents with no value for minutes of first activity and no value for vigorous equivalent minutes

```
SAS Code:

IF ACTIN11_=2 THEN DO;

PAMIN11_=ROUND(_MINAC11*2,1);

END;

ELSE IF ACTIN11_=1 THEN DO;

PAMIN11_=ROUND(_MINAC11,1);

END;

IF ACTIN11_=0 THEN PAMIN11_=0;
```

#### **Section 12: Exercise (Physical Activity)**

PAMIN21\_ Calculated variable for minutes of physical activity per week for second activity. We derive PAMIN21\_ from ACTIN21\_ and \_MINAC21.

- 0 Minutes of Activity Respondents' minutes of second activity or vigorous equivalent per week
  - . Not asked or Missing Respondents with no value for minutes of second activity and no value for vigorous equivalent minutes

```
SAS Code:

IF ACTIN21_=2 THEN DO;

PAMIN21_=ROUND(_MINAC21*2,1);

END;

ELSE IF ACTIN21_=1 THEN DO;

PAMIN21_=ROUND(_MINAC21,1);

END;

IF ACTIN21 =0 THEN PAMIN21 =0;
```

#### **Section 12: Exercise (Physical Activity)**

PA1MIN\_ *Calculated variable for minutes of total physical activity per week.* We derive PA1MIN\_ from PAMIN11\_ and PAMIN21\_.

```
0 – Minutes of Activity Respondents minutes of combined activity or vigorous equivalent minutes (ROUND((SUM(PAMIN11_,PAMIN21_)),1))
```

. Not asked or Missing Respondents with no value for minutes of combined activity and no value for vigorous equivalent minutes

```
SAS Code: PAlmin_=ROUND((SUM(PAMIN11_,PAMIN21_)),1);
```

- PAVIG11\_ Calculated variable for minutes of vigorous physical activity per week for first activity. We derive PAVIG11 from ACTIN11 and MINAC11.
- 0 Minutes of Activity Respondents vigorous activity minutes of first activity per week
  - . Not asked or Missing Respondents with no value for vigorous activity minutes of first activity

```
SAS Code: IF ACTIN11_=2 THEN PAVIG11_=ROUND(_MINAC11,1); ELSE IF ACTIN11_ IN (0,1) THEN PAVIG11_=0;
```

#### **Section 12: Exercise (Physical Activity)**

- PAVIG21\_ Calculated variable for minutes of vigorous physical activity per week for second activity. We derive PAVIG21 from ACTIN21 and MINAC21.
- 0- Minutes of Activity Respondents' vigorous activity minutes of second activity per week
  - . Not asked or Missing Respondents with no value for vigorous activity minutes of second activity

```
SAS Code: IF ACTIN21_=2 THEN PAVIG21_=ROUND(_MINAC21,1); ELSE IF ACTIN21_ IN (0,1) THEN PAVIG21_=0;
```

### **Section 12: Exercise (Physical Activity)**

- PA1VIGM\_ *Calculated variable for minutes of total vigorous physical activity per week.* We derive PA1VIGM\_ from PAVIG11\_ and PAVIG21\_.
- 0 Minutes of Activity Respondents vigorous activity minutes of combined activity 99999 per week (ROUND((SUM(PAVIGM1\_,PAVIGM2\_)),1))
  - . Not asked or Missing Respondents with no value for vigorous activity minutes of combined activity

SAS Code: PA1VIGM\_=ROUND((SUM(PAVIG11\_,PAVIG21\_)),1);

| 1 | Highly Active                               | Respondents who reported doing enough physical activity to meet the 300-minute (or vigorous equivalent) aerobic recommendation ((PA1MIN_ > 300) or (PA1VIGM_ > 150))  |
|---|---|---|
| 2 | Active                                      | Respondents who reported doing 150–300 minutes (or vigorous equivalent) of physical activity (150 <= PA1MIN_ <= 300 AND PAMISS1_=0)   |
| 3 | Insufficiently Active                       | Respondents who reported doing insufficient physical activity (11–149 minutes) (1 <= PA1MIN_ <=149 AND PAMISS1_=0)  |
| 4 | Inactive                                    | Respondents who reported doing no physical activity ((PA1MIN_=0 AND PAMISS1_=0) or (EXERANY2=2))  |
| 9 | Don't know/<br>Not Sure/Refused/<br>Missing | Respondents who reported they did not know whether they did 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:                                   | <pre>IF EXERANY2=2 THEN _PACAT1=4; ELSE IF EXERANY2 IN (.,7,9) THEN _PACAT1=9; ELSE IF EXERANY2=1 THEN DO; IF PA1MIN_ &gt; 300 THEN _PACAT1=1; ELSE IF PA1VIGM_ &gt; 150 THEN _PACAT1=1; ELSE IF 150 &lt;= PA1MIN_ &lt;= 300 AND PAMISS1_=0 THEN _PACAT1=2; ELSE IF 1 &lt;= PA1MIN_ &lt;=149 AND PAMISS1_=0 THEN _PACAT1=3; ELSE IF PA1MIN_=0 AND PAMISS1_=0 THEN _PACAT1=4; ELSE _PACAT1=9; END;</pre> |

## **Section 12: Exercise (Physical Activity)**

| _PAINDX | 1 Calculated variate PAMISS1_ and 1         | ble for physical activity index. We derive _PAINDX1 from EXERANY2, PA1MIN   |
|---------|---|---|
| 1       | Meet Aerobic<br>Recommendations             | Respondents who reported doing 150+ minutes (or vigorous equivalent) of physical activity (PA1MIN_ >= 150)  |
| 2       | Did Not Meet<br>Aerobic<br>Recommendations  | Respondents who reported doing insufficient physical activity (0-149 minutes) ((0 <= PA1MIN_ < 150 AND PAMISS1_=0) or (EXERANY2=2))   |
| 9       | Don't know/<br>Not Sure/Refused/<br>Missing | Respondents who reported they did not know whether they did physical activity or did not know how many days or did not know how much time they did the activity, those who refused to answer, and those with missing responses            |
|         | SAS Code:                                   | <pre>IF EXERANY2=2 THEN _PAINDX1=2; ELSE IF EXERANY2 IN (.,7,9) THEN _PAINDX1=9; ELSE IF EXERANY2=1 THEN DO; IF PAIMIN_ &gt;= 150 THEN _PAINDX1=1; ELSE IF 0 &lt;= PAIMIN_ &lt; 150 AND PAMISS1_=0 THEN _PAINDX1=2; ELSE PAINDX1=9;</pre> |

END;

PA150R2 Calculated variable for adults who participated in 150 minutes (or vigorous equivalent minutes) of physical activity per week. We derive PA150R2 from EXERANY2, PA1VIGM, PAMISS1, and PA1MIN . 1 150+ minutes Respondents who reported doing enough physical activity to meet the 150-minute (or vigorous aerobic recommendation (PA1MIN >= 150 or PA1VIGM >= 75) equivalent minutes) of physical activity 2 1–149 minutes Respondents who reported doing insufficient physical activity to meet the (or vigorous 150-minute aerobic recommendation (0 < PA1MIN < 150 AND PAMISS1 =0) equivalent minutes) of physical activity 3 0 minutes Respondents who reported doing no physical activity (PA1MIN =0 AND (or vigorous PAMISS1 = 0equivalent minutes) of physical activity 9 Don't know/ Respondents who reported they did not know whether they did physical activity or Not Sure/ Refused/ did not know how many days or did not know how much time they did the Missing activity, those who refused to answer, and those with missing responses IF EXERANY2=2 THEN PA150R2=3; **SAS Code:** ELSE IF EXERANY2 IN (7,9,.) THEN \_PA150R2=9; ELSE IF EXERANY2=1 THEN DO; IF PA1VIGM\_ >= 75 THEN \_PA150R2=1; ELSE IF PA1MIN >= 150 THEN PA150R2=1; ELSE IF 0 < PA1MIN < 150 AND PAMISS1 = 0 THEN PA150R2=2; ELSE IF PA1MIN\_=0 AND PAMISS1\_=0 THEN \_PA150R2=3; ELSE \_PA150R2=9;

END;

\_PA300R2 Calculated variable for adults who participated in 300 minutes (or vigorous equivalent minutes) of physical activity per week. We derive \_PA300R2 from EXERANY2, PAMISS1\_ and PA1MIN\_. 1 301+ minutes Respondents who reported doing enough physical activity to meet the 300-minute (or vigorous aerobic recommendation (PA1MIN\_ > 300) equivalent minutes) of physical activity Respondents who reported doing insufficient physical activity to meet the 2 1–300 minutes (or vigorous 300-minute aerobic recommendation (0 < PA1MIN\_ <= 300 AND PAMISS1\_=0) equivalent minutes) of physical activity 3 0 minutes Respondents who reported doing no physical activity ((PA1MIN = 0 AND (or vigorous PAMISS1\_=0) or (EXERANY2=2)) equivalent minutes) of physical activity 9 Don't know/ Respondents who reported they did not know whether they did physical activity or did not know how many days or did not know how much time they did the Not Sure/Refused/ Missing activity, those who refused to answer, and those with missing responses IF EXERANY2=2 THEN \_PA300R2=3; **SAS Code:** ELSE IF EXERANY2 IN (9,7,.) THEN \_PA300R2=9; ELSE IF EXERANY2=1 THEN DO; IF PA1MIN\_ > 300 THEN \_PA300R2=1; ELSE IF 0 < PAlMIN\_ <= 300 AND PAMISS1\_=0 THEN \_PA300R2=2; ELSE IF PA1MIN = 0 AND PAMISS1 = 0 THEN PA300R2=3; ELSE PA300R2=9; END;

\_PA30021 Calculated variable for adults who participated in 300 minutes (or vigorous equivalent minutes) of physical activity per week (2-levels). We derive PA30021 from \_PA300R2.

| 1 | 301+ minutes<br>(or vigorous<br>equivalent minutes)<br>of physical activity | Respondents who reported doing enough physical activity to meet the 300+ minute aerobic recommendation (_PA300R2=1)  |
|---|---|--|
| 2 | 0–300 minutes (or vigorous equivalent minutes) of physical activity         | Respondents who reported doing insufficient physical activity to meet the 300-minute aerobic recommendation (_PA300R2 IN (2,3))  |
| 9 | Don't know/ Not<br>Sure/ Refused/<br>Missing                                | Respondents who reported they did not know whether they did physical activity or did not know how many days or did not know how much time they did the activity, those who refused to answer, and those with missing responses |
|   | SAS Code:   | <pre>IF _PA300R2=1 THEN _PA30021=1; ELSE IF _PA300R2 IN (2,3) THEN _PA30021=2; ELSE _PA30021=9;</pre>  |

## **Section 12: Exercise (Physical Activity)**

| 1 | Meet muscle<br>strengthening<br>recommendations         | Respondents who reported doing enough physical activity to meet the strengthening recommendation (STRFREQ_/1000 >=2)   |
|---|---|--|
| 2 | Did not meet muscle<br>strengthening<br>recommendations | Respondents who reported doing physical activity but not enough to meet the strengthening recommendation (0 $\leq$ STRFREQ_/1000 $\leq$ 2)   |
| 9 | Don't know/<br>Not Sure/Refused/<br>Missing             | Respondents who reported they did not know whether they did physical activity or did not know how many days or did not know how much time they did the activity, those who refused to answer, and those with missing responses |
|   | SAS Code:   | <pre>IF STRFREQ_/1000 &gt;=2 THEN _PASTRNG=1; ELSE IF 0 &lt;= STRFREQ_/1000 &lt; 2 THEN _PASTRNG=2; ELSE _PASTRNG=9;</pre>   |

| 1 | Met Both Guidelines | Respondents who reported doing enough physical activity to meet the aerobic and |
|---|---------------------|---|
|   |                     | strengthening recommendations ( PASTRNG=1 AND PAINDX1=1)                        |

| 2 | Met Aerobic     | Respondents who reported doing enough physical activity to meet the aerobic |
|---|-----------------|---|
|   | Guidelines Only | recommendation but not the strengthening (_PASTRNG=2 AND _PAINDX1=1)        |

| 3 | Met Strengthening | Respondents who reported doing enough physical activity to meet the |
|---|-------------------|---|
|   | Guidelines Only   | strengthening recommendation but not the aerobic (_PASTRNG=1 AND    |
|   |                   | _PAINDX1=2)   |

| 4 | Did Not Meet Either | Respondents who reported doing physical activity but not enough to meet either |
|---|---------------------|--|
|   | Guideline           | the aerobic or strengthening recommendations (_PASTRNG=2 AND _PAINDX1=2)       |

| Don't know/       | Respondents who reported they did not know whether they did physical activity or |
|-------------------|--|
| Not Sure/Refused/ | did not know how many days or did not know how much time they did the            |
| Missing           | activity, those who refused to answer, and those with missing responses          |
| SAS Code:         | <pre>IF _PASTRNG=1 AND _PAINDX1=1 THEN _PAREC1=1;</pre>                          |

```
IF _PASTRNG=1 AND _PAINDX1=1 THEN _PAREC1=1;
ELSE IF _PASTRNG=2 AND _PAINDX1=1 THEN _PAREC1=2;
ELSE IF _PASTRNG=1 AND _PAINDX1=2 THEN _PAREC1=3;
ELSE IF _PASTRNG=2 AND _PAINDX1=2 THEN _PAREC1=4;
ELSE _PAREC1=9;
```

### **Section 12: Exercise (Physical Activity)**

9

ELSE PASTAE1=9;

| 1 | Met Both Guidelines                         | Respondents who reported doing enough physical activity to meet the aerobic and strengthening recommendations (_PAREC1=1)  |
|---|---|--|
| 2 | Did Not Meet Both<br>Guidelines             | Respondents who reported doing physical activity but not enough to meet both the aerobic and strengthening recommendations (_PAREC1 IN (2,3,4))  |
| 9 | Don't know/<br>Not Sure/Refused/<br>Missing | Respondents who reported they did not know whether they did physical activity or did not know how many days or did not know how much time they did the activity, those who refused to answer, and those with missing responses |
|   | SAS Code:                                   | <pre>IF _PAREC1=1 THEN _PASTAE1=1; ELSE IF _PAREC1 IN (2,3,4) THEN _PASTAE1=2;</pre>   |

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#### Section 13: Arthritis Burden

\_LMTACT1 Calculated variable for limited usual activities. We derive \_LMTACT1 from HAVARTH3 and LMTJOIN3.

| 1 | Told have arthritis and have limited usual activities | Respondents who have been told they have arthritis and have limited usual activities HAVARTH3=1 and LMTJOIN3=1    |
|---|---|---|
| 2 |   | Respondents who have been told they have arthritis and have no limited usual activities HAVARTH3=1 and LMTJOIN3=2 |
| 3 | Not told they have arthritis                          | Respondents who have not been told they have arthritis HAVARTH3=2   |

Don't know, refused Respondents who have been told they have arthritis and reported they did not or missing usual activities limited know, refused or had a missing value for limited usual activities HAVARTH3=1 and LMTJOIN3=7, 9 or missing

Don't know, refused Respondents who refused, did not know or were missing a response to being told or missing arthritis or they had arthritis HAVARTH3=7, 9 or missing not asked

```
SAS Code:

IF HAVARTH3=1 THEN DO;

IF LMTJOIN3=1 THEN _LMTACT1=1;

ELSE IF LMTJOIN3=2 THEN _LMTACT1=2;

ELSE _LMTACT1=9;

END;

ELSE IF HAVARTH3=2 THEN _LMTACT1=3;

ELSE LMTACT1=.;
```

#### Section 13: Arthritis Burden

\_LMTWRK1 Calculated variable for limited work activities. We derive \_LMTWRK1 from HAVARTH3 and ARTHDIS2.

| 1 | Told Have Arthritis | Respondents who have been told they have arthritis and have limited work |
|---|---------------------|--|
|   | and Have Limited    | HAVARTH3=1 and ARTHDIS2=1  |
|   | Work                |  |

- Told Have Arthritis Respondents who have been told they have arthritis and have no limited work and No Limited Work HAVARTH3=1 and ARTHDIS2=2
- Not Told They Have Respondents who have not been told they have arthritis HAVARTH3=2
  Arthritis
- 9 Don't Know, Refused or Missing Work Limited Respondents who have been told they have arthritis and reported they didn't know, refused or had a missing value for limited work HAVARTH3=1 and ARTHDIS2=7, 9 or missing
  - Don't Know,
    Refused, or Missing
    Arthritis or Not
    Asked
    Respondents who refused, didn't know or were missing a response to being told they had arthritis HAVARTH3=7, 9 or missing
    - SAS Code:

      IF HAVARTH3=1 THEN DO;

      IF ARTHDIS2=1 THEN \_LMTWRK1=1;

      ELSE IF ARTHDIS2=2 THEN \_LMTWRK1=2;

      ELSE \_LMTWRK1=9;

      END;

      ELSE IF HAVARTH3=2 THEN \_LMTWRK1=3;

      ELSE \_LMTWRK1=.;

#### Section 13: Arthritis Burden

Asked

\_LMTSCL1 Calculated variable for limited social activities. We derive\_LMTSCL1 from HAVARTH3 and ARTHSOCL.

- Told Have Arthritis Respondents who have been told they have arthritis and have a lot of limited social and Social Activities activities HAVARTH3=1 and ARTHSOCL=1
  Limited a Lot
- Told Have Arthritis Respondents who have been told they have arthritis and have a little of limited And Social Activities social activities HAVARTH3=1 and ARTHSOCL=2

  Limited a Little
- Told Have Arthritis Respondents who have been told they have arthritis and have no limited social and Social Activities activities HAVARTH3=1 and ARTHSOCL=3

  Not Limited
- 4 Not Told They Have Respondents who have not been told they have arthritis HAVARTH3=2 Arthritis
- Don't Know, Respondents who have been told they have arthritis and reported they did not know, refused, or had a missing value for limited social activities HAVARTH3=1 and ARTHSOCL=7, 9 or missing

  Limited
  - Don't Know,
    Respondents who refused, did not know or were missing a response to being told
    they had arthritis HAVARTH3=7, 9 or missing
    Arthritis or Not
    - SAS Code:

      IF HAVARTH3=1 THEN DO;
      IF ARTHSOCL=1 THEN \_LMTSCL1=1;
      ELSE IF ARTHSOCL=2 THEN \_LMTSCL1=2;
      ELSE IF ARTHSOCL=3 THEN \_LMTSCL1=3;
      ELSE \_LMTSCL1=9;
      END;
      ELSE IF HAVARTH3=2 THEN \_LMTSCL1=4;

ELSE LMTSCL1=.;

#### **Section 14: Seatbelt Use**

\_RFSEAT2 Calculated variable for always or nearly always wear seat belts calculated variable. We derive RFSEAT2 from SEATBELT.

- Always or Almost Respondents who reported they always or nearly always use a seatbelt when they Always Wear Seat ride or drive in a car or they never drive or ride in a car. (SEATBELT=1,2,8)

  Belt
- Sometimes, Seldom, Respondents who reported they sometimes, seldom or never use a seatbelt when or Never Wear Seat they ride or drive in a car. (SEATBELT=3,4,5)

  Belt

Don't know/ Respondents who reported they do not know, are not sure, refused or with missing responses for if they use a seatbelt when they ride or drive in a car. (SEATBELT=7,9 or missing)

SAS Code: IF SEATBELT IN (1,2,8) THEN \_RFSEAT2=1; ELSE IF SEATBELT IN (3,4,5) THEN \_RFSEAT2=2; ELSE \_RFSEAT2=9;

#### **Section 14: Seatbelt Use**

\_RFSEAT3 Calculated variable for always wear seat belts calculated variable. We derive \_RFSEAT3 from SEATBELT.

- Always Wear Seat Respondents who reported they always use a seatbelt when they ride or drive in a Belt car or they never drive or ride in a car. (SEATBELT=1,8)
- Don't Always Wear Respondents who reported they nearly always, sometimes, seldom or never use a Seat Belt seatbelt when they ride or drive in a car. (SEATBELT=2,3,4,5)
- Don't know/ Respondents who reported they do not know, are unsure, refused, or have missing Not Sure Or Refused/ responses to if they use a seatbelt when they ride or drive in a car. (SEATBELT=7,9 Missing or missing)
  - SAS Code: IF SEATBELT IN (1,8) THEN \_RFSEAT3=1; ELSE IF SEATBELT IN (2,3,4,5) THEN \_RFSEAT3=2; ELSE \_RFSEAT3=9;

### **Section 15: Immunization**

| _FLSHOT6 Calculated variable for adults aged 65+ who | o have had a flu shot within the past year. We |
|--|--|
| derive FLSHOT6 from FLUSHOT6.                        |  |

|   | derive_FLSHOT6 from FLUSHOT6.                 |   |  |
|---|---|---|--|
| 1 | Yes   | Respondents aged 65 or older who reported having a flu shot within the past 12 months. (AGE $>=$ 65 and FLUSHOT6=1)   |  |
| 2 | No  | Respondents aged 65 or older who reported not having had a flu shot within the past 12 months. (AGE $\geq$ 65 and FLUSHOT6=2)   |  |
| 9 | Don't know/<br>Not Sure or<br>Refused/Missing | Respondents who did not know their age, those who refused to report their age, those who did not know if they had a flu shot in the past 12 months, or those who refused to answer if they had a flu shot in the past 12 months, or those with missing responses. (AGE >= 65 and FLUSHOT6=7,9, or missing or AGE=7,9, or missing) |  |
|   | Age Less Than 65                              | Respondents aged 18-64. (18 <= AGE <= 64)   |  |
|   | SAS Code:                                     | <pre>IF AGE GE 65 THEN DO; IF FLUSHOT6=1 THEN _FLSHOT6=1; ELSE IF FLUSHOT6=2 THEN _FLSHOT6=2; ELSE IF FLUSHOT6 IN (.,7,9) THEN _FLSHOT6=9; END; ELSE IF AGE IN (.,7,9) THEN _FLSHOT6=9; ELSE _FLSHOT6=.;</pre>  |  |

# **Section 15: Immunization**

\_PNEUMO2 *Calculated variable for adults aged 65+ who have ever had a pneumonia vaccination.* We derive PNEUMO2 from PNEUVAC3.

|   | _1 NEOMO2 110                                 | III I NEO VACS.   |
|---|---|---|
| 1 | Yes   | Respondents aged 65 or older who reported having a pneumonia shot. (AGE $\geq$ 65 and FLUSHOT3=1)   |
| 2 | No  | Respondents aged 65 or older who reported not having had a pneumonia shot. (AGE >= 65 and FLUSHOT3=2)   |
| 9 | Don't know/<br>Not Sure or<br>Refused/Missing | Respondents who did not know their age, those who refused to report their age, those who did not know if they ever had a pneumonia shot, those who 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:                                     | <pre>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=.;</pre>   |

### **Section 16: HIV/AIDS**

\_AIDTST3 Calculated variable for adults who have ever been tested for HIV. We derive \_AIDTST3 from HIVTST6.

| 1 | Yes                              | Respondents who reported to having been tested for HIV. (HIVTST6=1)   |
|---|----------------------------------|---|
| 2 | No                               | Respondents who did not report having been tested for HIV. (HIVTST6=2)  |
| 9 | Don't know/<br>Not Sure/ Refused | Respondents who reported they did not know if they had been tested for HIV, or those who refused to answer if they had been tested for HIV. (HIVTST6=7,9) |
|   | Not asked or missing             | Respondents with missing responses for HIVTST6. (HIVTST6=missing)   |
|   | SAS Code:                        | <pre>IF HIVTST6=1 THEN _AIDTST3=1; ELSE IF HIVTST6=2 THEN _AIDTST3=2; ELSE IF HIVTST6 IN (7,9) THEN _AIDTST3=9;</pre>                                     |

ELSE IF HIVTST6=. THEN \_AIDTST3=.;

For more information, please refer to the following links on the **BRFSS** Web page:

Annual Survey Data and Support Documentation State Coordinators Questionnaires

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### Calculated Variables in the Data File of the 2013 Behavioral Risk Factor Surveillance System

List of all calculated variables in the 2013 data set.

\_RFHLTH

\_HCVU651

\_RFHYPE5

\_CHOLCHK

\_RFCHOL

\_LTASTH1

\_CASTHM1

\_ASTHMS1

\_DRDXAR1

MRACORG1

MRACASC1

\_PRACE1

\_MRACE1

\_M\_RACE

\_HISPANC

\_RACE

\_RACEG21

\_RACEGR3

\_RACE\_G1

\_AGEG5YR

\_AGE65YR

\_AGE\_G

HTIN4

HTM4

WTKG3

\_BMI5

\_BMI5CAT

\_RFBMI5

\_CHLDCNT

\_EDUCAG

\_INCOMG

\_SMOKER3

\_RFSMOK3

DRNKANY5

DROCDY3\_

\_RFBING5

\_DRNKDY4

DRNKMO4

\_RFDRHV4

\_RFDRMN4

RFDRWM4

FTJUDA1\_

FRUTDA1

BEANDAY\_

GRENDAY\_

ORNGDAY\_

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### Calculated Variables in the Data File of the 2013 Behavioral Risk Factor Surveillance System

- VEGEDA1\_
- \_MISFRTN
- \_MISVEGN
- \_FRTRESP
- \_VEGRESP
- \_FRUTSUM
- \_VEGESUM
- \_FRTLT1
- \_VEGLT1
- \_FRT16
- \_VEG23
- \_FRUITEX
- \_VEGETEX
- \_FRTLT1
- \_VEGLT1
- \_TOTINDA
- METVL11\_
- METVL21\_
- MAXVO2\_
- FC60\_
- ACTIN11\_
- ACTIN21\_
- PADUR1\_
- PADUR2\_
- PAFREQ1\_
- PAFREQ2\_
- \_MINAC11
- \_MINAC21
- STRFREQ\_
- PAMISS1\_
- PAMIN11\_
- PAMIN21\_
- PA1MIN\_
- PAVIG11\_
- PAVIG21
- PA1VIGM\_
- \_PACAT1
- \_PAINDX1
- \_PA150R2
- PA300R2
- \_PA30021
- \_PASTRNG
- PAREC1
- \_PASTAE1
- LMTACT1
- \_LMTWRK1
- \_LMTSCL1
- \_RFSEAT2

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## Calculated Variables in the Data File of the 2013 Behavioral Risk Factor Surveillance System

- \_RFSEAT3
- \_FLSHOT6
- \_PNEUMO2
- \_AIDTST3
- \_AGE80
- \_CHISPNC
- CRACORG1
- CRACASC1
- \_CRACE1
- \_IMPCAGE
- \_IMPCRAC
- \_IMPCSEX

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