# **Calculated Variables**

in the 2016 Data File of the

**Behavioral Risk Factor Surveillance System** 

(Version #9 - Revised: June 2, 2017)





### Introduction

This document provides information on calculated variables for the 2016 survey results of the Behavioral Risk Factor Surveillance System. These variables are calculated from participants' responses to survey questions. There are three types of calculated variables:

- 1. Variables used to stratify and weight the data (not included in this document).
- 2. Intermediate variables, which are derived from a question response and are used to calculate some other variable or risk factor. Example: WTKG2 is derived from the WEIGHT2 variable in the survey. WTKG2 is then used 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 used to categorize or classify respondents. Most of these begin with an underscore such as \_BMI4. Exceptions are: \_DENSTR2, \_GEOSTR, and \_STATE, which are determined before the interview. Some of the calculated variables group continuous variables—such as weight, age, or body mass index—into categories. Other calculated variables regroup non-continuous variables to simplify analyses. The common focus of these variables is on health behaviors associated with 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.

## **Newly Added Calculated Variables for 2016**

- > DRNKDRV
- > IMPSEX
- **ECIGSTS**
- > CURECIG
- > PHYS14D
- > MENT14D

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

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

1 Good or Better Respondents who reported having excellent, very good or good health. (GENHLTH = 1, 2, 3)Health

2 Fair or Poor Health Respondents who reported having fair or poor health. (GENHLTH =4, 5)

9 Don't Know/ Respondents who reported they didn't know, refused to answer, or had missing Not Sure Or responses for the general health status question. (GENHLTH = 7, 9, missing) Refused/Missing

> **SAS Code:** IF 4 LE GENHLTH LE 5 THEN RFHLTH=2; ELSE IF 1 LE GENHLTH LE 3 THEN RFHLTH=1; ELSE RFHLTH=9;

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

\_PHYS14D Calculated variable for 3 level not good physical health status: 0 days, 1-13 days, 14-30 days. PHYS14D is derived from PHYSHLTH.

1 Zero davs when Respondents who reported no days when their physical health was not good (PHYSHLTH=88) physical health not good

2 1-13 days when Respondents who reported 1-13 days when their physical health was not good (1 physical health not <= PHYSHLTH <= 13)

3 14+ days when Respondents who reported 14 or more days when their physical health was not physical health not

good

9

good (14 <= PHYSHLTH <=30) good

Don't know/ Respondents who reported they didn't know, refused or had missing values for Refused/Missing PHYSHLTH (PHYSHLTH=77,99, or missing)

IF PHYSHLTH IN (77,99,.) THEN PHYS14D=9; **SAS Code:** ELSE IF PHYSHLTH=88 THEN PHYS14D=1; ELSE IF 1 LE PHYSHLTH LE 13 THEN PHYS14D=2; ELSE PHYS14D=3;

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

\_MENT14D Calculated variable for 3 level not good mental health status: 0 days, 1-13 days, 14-30 days. \_MENT14D is derived from MENTHLTH.

1	Zero days when mental health not good	Respondents who reported no days when their mental health was not good (MENTHLTH=88)	
2	1-13 days when mental health not good	Respondents who reported 1-13 days when their mental health was not good (1 <= MENTHLTH <= 13)	
3	14+ days when mental health not good	Respondents who reported 14 or more days when their mental health was not good (14 <= MENTHLTH <=30)	
9	Don't know/ Refused/Missing	Respondents who reported they didn't know, refused or had missing values for MENTHLTH (MENTHLTH=77,99, or missing)	
	SAS Code:	IF MENTHLTH IN (77,99,.) THEN _MENT14D=9; ELSE IF MENTHLTH=88 THEN _MENT14D=1; ELSE IF 1 LE MENTHLTH LE 13 THEN _MENT14D=2; ELSE _MENT14D=3;	

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

\_HCVU651 Calculated variable for respondents aged 18-64 who have any form of health care coverage. \_HCVU651 is derived from AGE and HLTHPLN1.

ELSE HCVU651 = 9;

1	Have health care coverage	Respondents who reported having health care coverage ( $18 \le AGE \le 64$ and $HLTHPLN1 = 1$ )	
2	Do not have health care coverage	Respondents who reported not having health care coverage (18 $\leq$ AGE $\leq$ 64 and HLTHPLN1 = 2)	
9	Don't know/ Not Sure, Refused or Missing	Respondents who reported that they didn't know, were not sure, refused to report or had missing responses for having health care coverage ( $18 \le AGE \le 64$ and HLTHPLN1 = 7, 9, or missing or AGE => 65)	
	SAS Code:	<pre>IF 18 LE AGE LE 64 THEN DO; IF HLTHPLN1=1 THEN _HCVU651=1; ELSE IF HLTHPLN1=2 THEN _HCVU651=2; ELSE _HCVU651=9; END;</pre>	

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#### **Section 4: Exercise**

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

Had physical activity Respondents who reported doing any physical activity or exercise.

or exercise (EXERANY2=1)

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;

#### **Section 5: Inadequate Sleep**

There are no calculated variables for Section 5.

#### **Section 6: Chronic Health Conditions**

\_MICHD Calculated variable for respondents who have ever reported having coronary heart disease (CHD) or myocardial infarction (MI). \_MICHD is derived from CVDINFR4, and CVDCRHD4.

Reported having MI Respondents who reported having had MI or CHD (CVDINFR4=1 OR CVDCRHD4=1)

2 Did not report Respondents who reported not having had MI and CHD (CVDINFR4=2 AND having MI or CHD CVDCRHD4=2)

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

the MI or CHD questions (CVDINFR4=7, 9 OR MISSING OR CVDCRHD4=7, 9, OR

MISSING)

SAS Code: IF CVDINFR4=1 OR CVDCRHD4=1 THEN \_MICHD=1;

ELSE IF CVDINFR4=2 AND CVDCRHD4=2 THEN MICHD=2;

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#### **Section 6: Chronic Health Conditions**

_LTASTH1	Calculated var	riable for adults who have ever been told they have asthmaLTASTH1 is derived	L
	from ASTHM	IA3.	
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)

Don't know/ Respondents who reported they did not know if they had been told by a doctor, Not Sure Or Refused/ 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: IF ASTHMA3=1 THEN \_LTASTH1=2; ELSE IF ASTHMA3=2 THEN \_LTASTH1=1; ELSE LTASTH1=9;

#### **Section 6: Chronic Health Conditions**

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\_CASTHM1 Calculated variable for adults who have been told they currently have asthma. \_CASTHM1 is derived from 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)

Don't know/
Not Sure Or 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: 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;

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#### **Section 6: Chronic Health Conditions**

_ASTHN	AS1 Calculated variab ASTHNOW.	ble for computed asthma statusASTHMS1 is derived 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)			
Pon't know/ Not Sure Or Refused/ Missing  Respondents who reported they didn't know if they had been told by a doctor nurse or health professional that they had asthma, those who refused to any they had been told by a doctor, nurse or health professional that they had a those who didn't know if they still had asthma, those that refused to answer they still had asthma, or those with missing responses. (ASTHMA3=7, 9, missing)  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 6: Chronic Health Conditions**

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

1	Diagnosed with arthritis	Respondents who have been told by a doctor they had arthritis (HAVARTH3=1)		
2	Not diagnosed with arthritis	Respondents who have not been told by a doctor they had arthritis (HAVARTH3=2)		
	Don't know/ 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 (HAVARTH3=7,9, or missing)		
	SAS Code:	<pre>IF HAVARTH3 = 1 THEN _DRDXAR1=1; ELSE IF HAVARTH3 = 2 THEN _DRDXAR1=2; ELSE IF HAVARTH3 IN (7,9,.) THEN _DRDXAR1=.;</pre>		

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#### Section 7: Oral Health

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_EXTETH2 Calculated variable for adults aged 18+ who	have had permanent teeth extractedEXTETH2 is
derived from RMVTETH3.	

Not at risk Respondents who reported having had no permanent teeth removed. (RMVTETH3=8)

2 At risk Respondents who reported having had permanent teeth removed. (RMVTETH3=1

or 2 or 3)

Don't know/ Respondent who reported they didn't know, refused to answer, or had missing Not Sure Or Refused/ values on having had any permanent teeth extracted question. (RMVTETH3=7, 9,

Missing missing)

SAS Code: IF RMVTETH3 IN (1,2,3) THEN \_EXTETH2=2; ELSE IF RMVTETH3=8 THEN EXTETH2=1;

ELSE EXTETH2=9;

#### **Section 7: Oral Health**

\_ALTETH2 Calculated variable for adults aged 65+ who have had all their natural teeth extracted. ALTETH2 is derived from AGE and RMVTETH3.

1 No Respondents aged 65 or more who reported having none or some natural teeth

removed. (AGE > 64 and RMVTETH3=1, 2, 8)

2 Yes Respondents aged 65 or more who reported having all natural teeth removed.

(AGE > 64 and RMVTETH3=3)

9 Don't know/ Respondents who didn't know, or refused to report their age or didn't know, or

Not Sure Or Refused/ refused to report if they had any natural teeth removed. (AGE=7, 9, missing; or

Missing RMVTETH3=7, 9, missing)

Missing or Age Less Respondents aged 18–64. (18 <= AGE <= 64)

Than 65

SAS Code: IF AGE >= 65 THEN DO;

IF RMVTETH3 IN (1,2,8) THEN ALTETH2=1;

ELSE IF RMVTETH3=3 THEN \_ALTETH2=2;

ELSE IF RMVTETH3 IN (.,7,9) THEN ALTETH2=9;

END;

ELSE IF AGE IN (.,7,9) THEN \_ALTETH2=9;

ELSE ALTETH2=.;

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#### Section 7: Oral Health

\_DENVST2 Calculated variable for adults who have visited a dentist, dental hygienist or dental clinic within the past year. \_DENVST2 is derived from LASTDEN3.

1 Yes Respondents who reported having had dental visit in the past year. (LASTDEN3=1)

2 No Respondents who reported having not had dental visit in the past year.

(LASTDEN3=2, 3, or 4)

9 Don't know/ Respondents with missing values or who refused or didn't know if they had a

Not Sure Or Refused/ dental visit in the past year. (LASTDEN3=7,9 or missing)

Missing

SAS Code: IF LASTDEN3=1 THEN \_DENVST2=1;

ELSE IF LASTDEN3 IN (2,3,4,8) THEN \_DENVST2=2; ELSE IF LASTDEN3 IN (.,7,9) THEN DENVST2=9;

#### **Section 8: Demographics**

MRACORG1 Calculated variable for mrace1 with 77,88,99s removed. MRACORG1 is derived 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 - Race code(s) Respondents reported race or races in original order (MRACE1=10, 20, 30, 40, 50, 60,

6.05E9 or MRACE1 > 99)

77 Don't know/ Respondents who reported they didn't know or weren't sure of their race.
Not sure (MRACE1=77)

Refused Respondents who refused to give their race. (MRACE1=99)

SAS Code: IF (LEFT (COMPRESS (LENGTH (MRACE1)))) > 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;

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MRACASC1 Calculated variable for mracorg1 with 77,88,99s removed, in ascending order. MRACASC1 is derived from MRACORG1. The values that make up MRACORG1 are sorted from smallest to largest.

```
10 -
            Race code(s)
                            Respondents reported race or races in ascending order (MRACE1=10, 20, 30, 40, 50,
                            60, or MRACORG1 > 99)
1.02E9
 77
            Don't know/
                            Respondents who reported they didn't know, or weren't sure of their race.
                            (MRACORG1=77)
             Not sure
  99
             Refused
                            Respondents who refused to give their race. (MRACORG1=99)
                            IF (LEFT(COMPRESS(LENGTH(MRACORG1)))) > 2 THEN DO;
            SAS Code:
                            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.);
                            do i = 1 to counter;
                           MRAC SORTED = cats(MRAC SORTED, smallest(i, of pairs[*]));
                            end;
                           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 ONE 50 = PUT(LEFT(COMPRESS(TRANWRD(MRAC 5050, "XX", ""))), 28.);
                           END;
                           MRAC ONE40=MRAC ONE50;
                           DO Y=1 TO 7;
                           MRAC 4040=
                            PUT (LEFT (COMPRESS (TRANWRD (MRAC ONE 40, "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;

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PRACE	ORACE3. If MR	e for preferred race categoryPRACE is derived from MRACASC1 and ACEASC has only one response, then _PRACE1=MRACASC1. If MRACASC1 e response, then _PRACE1=ORACE3.			
1	White	Respondents who reported their race as white. (MRACASC1=10 or MRACASC1>99 and ORACE3=10)			
2	Black or African American	Respondents who reported their race as black. (MRACASC1=22 or MRACASC1>99 and ORACE3=20)			
3	American Indian or Alaskan Native	Respondents who reported their race as American Indian or Alaska 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	Native Hawaiian or other Pacific Islander	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 preferred race not 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/ Not sure	Respondents who reported they didn't 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;			

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# Section 8: Demographics \_MRACE1 Calculated va

_MRAC	MRACASC1. If category. If MRA	le for calculated multiracial race categorizationMRACE1 is derived from respondents reported more than one race they are assigned to the multiracial ACASC1 is less than 40 or equal to 60 then _MRACE1=MRACASC1. If 40-47 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 American only	Respondents who report they are black. (MRACASC1=22)		
3	American Indian or Alaskan Native only	Respondents who reported they are American Indian or Alaska 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 other Pacific Islander 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/ 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:	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;		

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Section 8	3: Demographics			
_M_RA	MRACASC1. If	the for calculated multiracial race categorizationM_RACE is derived from respondents reported more than one race, they are assigned to the multiracial rise _M_RACE=MRACASC1.		
10	White	Respondents who reported being white (MRACASC1=10)		
20	Black or African American	Respondents who reported being black or African American (MRACASC1=22)		
30	American Indian or Alaska Native	Respondents who reported being American Indian or Alaska Native (MRACASC1=30)		
40	Asian	Respondents who reported being American Indian or Alaska Native (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	Native Hawaiian	Respondents who reported being Native Hawaiian (MRACASC1=50)		
51	Pacific Islander	Respondents who reported being Pacific Islander (MRACASC1=51)		
52	Guamanian or Chamorro	Respondents who reported being Guamanian or Chamorro (MRACASC1=52)		
53	Samoan	Respondents who reported being Samoan (MRACASC1=53)		
54	Other Pacific 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/ Not Sure	Respondents who reported they didn't know their race (MRACASC1=77)		
99	Refused	Respondents who refused to answer what race/ethnicity they were (MRACASC1=99)		
	SAS Code:	<pre>IF MRACASC1 GT 99 THEN _M_RACE = 70; ELSE IF MRACASC1 EQ 99 THEN _M_RACE = 99; ELSE IF MRACASC1 EQ 77 THEN _M_RACE = 77; ELSE IF 10 LE MRACASC1 LE 60 THEN _M_RACE=MRACASC1;</pre>		

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

- Hispanic, Latino/a, Respondents who reported being of Hispanic, Latino/a, or Spanish origin or Spanish origin (HISPANC3=1,2,3,4 or HISPANC3 > 9)
- Not of Hispanic, Respondents who reported they were not of Hispanic, Latino/a, or Spanish origin

  Latino/a, or Spanish (HISPANC3=5)

  origin
- 9 Don't Know, Respondents who refused to report if they were of Hispanic, Latino/a, or Spanish Refused or Missing origin (HISPANC3=7)
- . Not asked or Missing Respondents who reported they did not know if they were of Hispanic, Latino/a, or Spanish origin (HISPANC3=9)
  - SAS Code: HISPNUM=INPUT(HISPANC3,4.0);
    IF HISPNUM in (5,58) THEN \_HISPANC=2;
    ELSE IF HISPNUM in (7,9,.) THEN \_HISPANC=9;
    ELSE HISPANC=1;

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```
RACE
          Calculated variable for race
             ethnicity categories. RACE2 is derived from _MRACE1 and _HISPANC. All respondents who
             reported they are of Hispanic or Latino origin are coded as Hispanic.
  1
          White only, non-
                             Respondents who reported they are white and not of Hispanic origin.
                             ( MRACE1=1 and HISPANC=2)
              Hispanic
  2
          Black only, non-
                             Respondents who reported they are black and not of Hispanic origin.
                             ( MRACE1=2 and HISPANC=2)
              Hispanic
         American Indian or Respondents who reported they are American Indian or Alaska Native and not of
  3
        Alaskan Native only, Hispanic origin. (MRACE1=3 and HISPANC=2)
           Non-Hispanic
  4
          Asian only, non-
                             Respondents who reported they are Asian and not of Hispanic origin.
                             ( MRACE1=4 and HISPANC=2)
              Hispanic
  5
         Native Hawaiian or
                            Respondents who reported they are Native Hawaiian or Pacific Islander and not
        other Pacific Islander of Hispanic origin. (MRACE1=5 and HISPANC=2)
         only, Non-Hispanic
  6
        Other race only, non-Respondents who reported they are of some other race group not listed in the
                             question responses and are not of Hispanic origin. (MRACE1=6 and HISPANC=2)
              Hispanic
  7
          Multiracial, non-
                             Respondents who reported they are of more than one race group and are not of
                             Hispanic origin. (MRACE1=7 and HISPANC=2)
              Hispanic
  8
              Hispanic
                             Respondents who reported they are of Hispanic origin. (HISPANC=1)
  9
            Don't know/
                             Respondents who reported they did not know, or refused to give their race and
          Not sure/Refused
                             are not of Hispanic origin or did not know, or refused to answer if they 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;
```

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\_RACEG21 Calculated variable for white non-Hispanic race group. \_RACEG21 is derived from \_RACE.

- 1 Non-Hispanic White Respondents who reported they are white and not of Hispanic origin. (RACE=1)
- Non-White or Respondents who reported they are non-white or of Hispanic origin. (\_RACE=2, 3, 4, 5, 6, 7, 8)
- 9 Don't know/ 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: IF RACE = 1 THEN RACEG21 = 1; 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. \_RACEGR3 is derived from \_RACE.

- White only, Non-Respondents who reported they are white and not of Hispanic origin. (\_RACE=1) Hispanic
- Black only, Non-Respondents who reported they are black and not of Hispanic origin. (\_RACE=2) Hispanic
- Other race only, Respondents who reported they are not white and not black and not of Hispanic Non-Hispanic origin. (RACE=3, 4, 5, 6)
- 4 Multiracial, Non- 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/ 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:

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;

ELSE IF _RACE=9 THEN _RACEGR3=9;
```

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```
RACE G1 Calculated variable for race groups used for internet prevalence tables. RACE G is derived from
              _RACEGR3.
             White - Non-
                               Respondents who reported they are white and not of Hispanic origin.
  1
                               ( RACEGR3=1)
               Hispanic
             Black - Non-
  2
                               Respondents who reported they are black and not of Hispanic origin.
                               ( RACEGR3=2)
               Hispanic
  3
               Hispanic
                               Respondents who reported that they are of Hispanic origin. (RACEGR3=5)
                               All other respondents with valid race responses except for those reporting
  4
           Other race only,
                               multiracial or Hispanic origins. (RACEGR3=3)
            Non-Hispanic
  5
           Multiracial, Non-
                               All other respondents reporting multiracial but non-Hispanic origin.
                               ( RACEGR3=4)
               Hispanic
             Don't know/
                               Respondents with don't know, refused or missing values for RACEGR2.
          Not sure/ Refused
                              ( RACEGR3=9, missing)
         component question
                               IF RACEGR3 = 1 THEN RACE G1 = 1;
              SAS Code:
                               ELSE IF RACEGR3 = 2 THEN RACE G1 = 2;
ELSE IF RACEGR3 = 3 THEN RACE G1 = 4;
                                ELSE IF _RACEGR3 = 4 THEN _RACE_G1 = 5;
```

ELSE IF RACEGR3 = 5 THEN RACE G1 = 3;

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```
AGEG5YR Calculated variable for fourteen-level age category. AGEG5YR is derived from AGE.
  1
            Age 18 to 24
                             Respondents with reported age between 18 and 24 years (18 <= AGE <= 24)
  2
            Age 25 to 29
                             Respondents with reported age between 25 and 29 years (25 <= AGE <= 29)
  3
            Age 30 to 34
                             Respondents with reported age between 30 and 34 years (30 <= AGE <= 34)
  4
            Age 35 to 39
                             Respondents with reported age between 35 and 39 years (35 <= AGE <= 39)
  5
            Age 40 to 44
                             Respondents with reported age between 40 and 44 years (40 <= AGE <= 44)
  6
            Age 45 to 49
                             Respondents with reported age between 45 and 49 years (45 <= AGE <= 49)
  7
            Age 50 to 54
                             Respondents with reported age between 50 and 54 years (50 <= AGE <= 54)
  8
            Age 55 to 59
                             Respondents with reported age between 55 and 59 years (55 <= AGE <= 59)
  9
            Age 60 to 64
                             Respondents with reported age between 60 and 64 years (60 <= AGE <= 64)
  10
            Age 65 to 69
                             Respondents with reported age between 65 and 69 years (65 <= AGE <= 69)
  11
            Age 70 to 74
                             Respondents with reported age between 70 and 74 years (70 <= AGE <= 74)
  12
            Age 75 to 79
                             Respondents with reported age between 75 and 79 years (75 <= AGE <= 79)
  13
           Age 80 or older
                             Respondents with reported age between 80 and 99 years (80 <= AGE <= 99)
  14
            Don't know/
                             Respondents who reported they didn't know, were not sure, refused to report or
          Refused/ Missing
                             had missing responses for their age. (AGE=7, 9, missing)
                             IF 18 LE AGE LE 24 THEN AGEG5YR = 1;
             SAS Code:
                              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;
```

#### **Section 8: Demographics**

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

ELSE AGEG5YR = 14;

```
Age 18 to 64 Respondents with reported ages 18–64. (18 <= AGE <=64)

Age 65 or older Respondents with reported ages 65–99. (65 >= AGE >= 99)

Don't know/ Respondents who reported they didn't know, were not sure, refused, or had a missing value for AGE. (AGE=7,9,or missing)

SAS Code:

If 18 LE AGE LE 64 THEN _AGE65YR=1;
ELSE IF 65 LE AGE LE 99 THEN _AGE65YR=2;
ELSE AGE65YR = 3;
```

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Section 8: Demographics			
_AGE80	Calculated variable	e for imputed age value collapsed above 80AGE80 is derived from _IMPAGE.	
18 - 24	Imputed Age 18 to 24	Respondents with reported Imputed Age between 18 and 24 years (18 $\leq$ Imputed Age $\leq$ 24)	
25 - 29	Imputed Age 25 to 29	Respondents with reported Imputed Age between 25 and 29 years (25 $\leq$ Imputed Age $\leq$ 29)	
30 - 34	Imputed Age 30 to 34	Respondents with reported Imputed Age between 30 and 34 years (30 $\leq$ Imputed Age $\leq$ 34)	
35 - 39	Imputed Age 35 to 39	Respondents with reported Imputed Age between 35 and 39 years ( $35 \le $ Imputed Age $\le 39$ )	
40 - 44	Imputed Age 40 to 44	Respondents with reported Imputed Age between 40 and 44 years ( $40 \le$ Imputed Age $\le$ 44)	
45 - 49	Imputed Age 45 to 49	Respondents with reported Imputed Age between 45 and 49 years ( $45 \le$ Imputed Age $\le$ 49)	
50 - 54	Imputed Age 50 to 54	Respondents with reported Imputed Age between 50 and 54 years ( $50 \le$ Imputed Age $\le$ 54)	
55 - 59	Imputed Age 55 to 59	Respondents with reported Imputed Age between 55 and 59 years ( $55 \le $ Imputed Age $\le 59$ )	
60 - 64	Imputed Age 60 to 64	Respondents with reported Imputed Age between 60 and 64 years (60 $\leq$ Imputed Age $\leq$ 64)	
65 - 69	Imputed Age 65 to 69	Respondents with reported Imputed Age between 65 and 69 years (65 $\leq$ Imputed Age $\leq$ 69)	
70 - 74	Imputed Age 70 to 74	Respondents with reported Imputed Age between 70 and 74 years (70 $\leq$ Imputed Age $\leq$ 74)	
75 - 79	Imputed Age 75 to 79	Respondents with reported Imputed Age between 75 and 79 years (75 $\leq$ Imputed Age $\leq$ 79)	
80 - 99	Imputed Age 80 or older	Respondents with reported Imputed Age between 80 and 99 years (80 <= Imputed Age <= 99)	
	SAS Code:	IF 18 LE _IMPAGE LE 80 THEN _AGE80=_IMPAGE; ELSE IF _IMPAGE GE 80 THEN _AGE80=80;	

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```
AGE G Calculated variable for six-level imputed age category. AGE G is derived from IMPAGE
             (imputed age).
  1
            Age 18 to 24
                             Respondents with imputed ages between 18–24 years of age. (18 <= IMPAGE <=
                             24)
  2
            Age 25 to 34
                             Respondents with imputed ages between 25–34 years of age. (25 <= IMPAGE <=
  3
            Age 35 to 44
                             Respondents with imputed ages between 35–44 years of age. (35 <= IMPAGE <=
  4
            Age 45 to 54
                             Respondents with imputed ages between 45–54 years of age. (45 <= IMPAGE <=
  5
            Age 55 to 64
                             Respondents with imputed ages between 55–64 years of age. (55 <= IMPAGE <=
  6
           Age 65 or older
                             Respondents with imputed ages between 65-99 years of age. ( IMPAGE => 65)
                             IF (18 \le \_IMPAGE \le 24) THEN \_AGE\_G = 1;
             SAS Code:
                              ELSE IF (25 \le 1MPAGE \le 34) THEN AGE_G = 2;
                              ELSE IF (35 \le IMPAGE \le 44) THEN AGE_G = 3;
                              ELSE IF (45 \le IMPAGE \le 54) THEN AGE G = 4;
                              ELSE IF (55 \le IMPAGE \le 64) THEN AGE G = 5;
                              ELSE IF ( IMPAGE \geq 65) THEN AGE G = 6;
```

#### **Section 8: Demographics**

HTIN4 *Calculated variable for reported height in inches.* HTIN4 is derived from HEIGHT3. HTIN4 is calculated by adding the foot portion of HEIGHT3 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)

Don't know/ Respondents who reported they didn't know, were not sure, refused or had Refused/Not asked or missing responses for their height.

Missing

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);

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HTM4 Calculated variable for reported height in meters. HTM4 is derived 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 Respondents reported or calculated height in meters. (HTM4=HTIN4 x 0.0254 or implied decimal places]

Don't know/ Respondents who reported they didn't know, were not sure, refused or had Refused/Not asked or missing responses for their height.

Missing

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

#### **Section 8: Demographics**

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

2300 - Weight in kilograms Respondents reported or calculated weight in kilograms.

29500 [2 implied decimal places]

Don't know/ Refused/ Not asked or Missing Respondents who reported they didn't know, were not sure, or refused or had missing responses for their weight.

**SAS Code:** 

\*\* CONVERSION FACTOR = 0.4535924 kg/lb \*\*; IF WEIGHT2 NOT IN (777,999,7777,9999,.) THEN DO; IF 0050 LE WEIGHT2 < 0650 THEN WTKG3=WEIGHT2\*0.4535924; ELSE IF 9023 LE WEIGHT2 < 9295 THEN WTKG3=WEIGHT2-9000; END;

#### **Section 8: Demographics**

\_BMI5 Calculated variable for body mass index (BMI). \_BMI5 is derived from WTKG3 and HTM4. It is calculated by dividing WTKG3 by HTM4<sup>2</sup>.

1 - 9999 1 or greater Respondents calculated body mass index (BMI) {units=kilograms per meter squared}. (\_BMI5 = WTKG3 / (HTM4xHTM4))

Don't know/ Refused/Missing Respondents who had a missing value for their height in meters or weight in kilograms. (WTKG3=missing or HTM4=missing or \_BMI5<12.00 or \_BMI5>=100 or PREGNANT=1)

SAS Code:

IF (WTKG3 NOTIN (.)) AND (HTM4 NOTIN (.)) THEN \_BMI5=WTKG3/(HTM4 \*\* 2);

ELSE \_BMI5=.;

IF \_BMI5 NE . THEN \_BMI5=ROUND(\_BMI5,.01);

IF \_BMI5 > 99.99 THEN \_BMI5=.;

IF \_BMI5 < 12.00 THEN \_BMI5=.;

IF PREGNANT=1 THEN BMI5=.;

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_BMI5CA	AT <i>Calculated varia</i> _BMI5.	ble for four-categories of body mass index (BMI)BMI5CAT is derived from		
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/ 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**

```
_RFBMI5 Calculated variable for adults who have a body mass index greater than 25.00 (overweight or obese). _RFBMI5 is derived from _BMI5.
```

```
1 No Respondents not classified as overweight or obese based on body mass index. (12 <= _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)
```

```
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);</pre>
```

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```
CHLDCNT Calculated variable for number of children in household. CHLDCNT is derived from
            CHILDREN.
           No children in
  1
                            Respondents who reported having no children. (CHILDREN=88)
             household
  2
            One child in
                            Respondents who reported having one child. (CHILDREN=1)
             household
  3
          Two children in
                            Respondents who reported having two children. (CHILDREN=2)
             household
          Three children in
  4
                            Respondents who reported having three children. (CHILDREN=3)
             household
          Four children in
                            Respondents who reported having four children. (CHILDREN=4)
  5
             household
            Five or more
                            Respondents who reported having five or more children. (5 <= CHILDREN < 87)
  6
        children in household
            Don't know/
  9
                            Respondents who reported they didn't know, were not sure, refused or had a
         Not sure/ Missing
                            missing value for CHILDREN. (CHILDREN=99)
                            IF CHILDREN = 88 THEN CHLDCNT = 1;
            SAS Code:
                             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;
```

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```
EDUCAG Calculated variable for level of education completed. EDUCAG is derived from EDUCA.
  1
          Did not graduate
                             Respondents who reported they did not graduate high school. (EDUCA=1,2,3)
            High School
  2
           Graduated High
                             Respondents who reported they graduated high school. (EDUCA=4)
              School
         Attended College or Respondents who reported they attended college or technical school. (EDUCA=5)
  3
          Technical School
                             Respondents who reported they graduated from college or technical school.
  4
           Graduated from
        College or Technical (EDUCA=6)
              School
  9
            Don't know/
                             Respondents who reported they didn't know, were not sure, refused, or had a
                             missing value for EDUCA. (EDUCA=9, missing)
          Not sure/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. _INCOMG is derived from INCOME2.
  1
         Less than $15,000
                            Respondents whose reported income is less than $15,000. (INCOME2=1,2)
  2
         $15,000 to less than Respondents whose reported income is $15,000 to less than $25,000.
              $25,000
                            (INCOME2=3,4)
  3
         $25,000 to less than Respondents whose reported income is $25,000 to less than $35,000.
                            (INCOME2=5)
              $35,000
         $35,000 to less than Respondents whose reported income is $35,000 to less than $50,000.
  4
              $50,000
                            (INCOME2=6)
          $50,000 or more
                            Respondents whose reported income is $50,000 or more. (INCOME2=7.8)
  5
  9
            Don't know/
                            Respondents who refused to answer, didn't know or had a missing value for
          Not sure/Missing
                            INCOME2. (INCOME2=77,99, or missing)
                             IF INCOME2 IN (1,2) THEN _INCOMG = 1;
             SAS Code:
                             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;
```

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#### **Section 9: Tobacco Use**

_SMOKER3	Calculated variable for	or four-level smoker status:	everyday smoker,	someday smoker, former
	smoker, non-smoker.	SMOKER3 is derived from	n SMOKE100 and	SMOKDAY2.

- 1 Current smoker -Respondents who reported having smoked at least 100 cigarettes in their lifetime now smokes every and now smoke every day. (SMOKE100=1 and SMOKDAY2=1) day
- 2 Current smoker -Respondents who reported having smoked at least 100 cigarettes in their lifetime now smokes some and now smoke some days. (SMOKE100=1 and SMOKDAY2=2) days
- 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/ Respondents who reported they didn't know if they had smoked 100 cigarettes Refused/Missing 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)

#### IF SMOKE100=2 THEN \_SMOKER3=4; **SAS Code:** ELSE IF SMOKE100=1 THEN DO; IF SMOKDAY2=1 THEN SMOKER3=1; ELSE IF SMOKDAY2=2 THEN SMOKER3=2; ELSE IF SMOKDAY2 = 3 THEN SMOKER3=3; ELSE SMOKER3=9; END; ELSE SMOKER3=9;

#### **Section 9: Tobacco Use**

No

1

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

		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/

Respondents who reported they did not know if they had smoked 100 cigarettes Refused/Missing 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)

Respondents who reported they had not smoked at least 100 cigarettes in their

```
IF SMOKER3 IN (1,2) THEN RFSMOK3=2;
SAS Code:
              ELSE IF SMOKER3 IN (3,4) THEN RFSMOK3=1;
              ELSE RFSMOK3=9;
```

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#### **Section 10: E-Cigarettes**

9

\_ECIGSTS Calculated variable for four-level e-cigarette smoker status: everyday e-cigarette user, someday e-cigarette user, former e-cigarette user, non-e-cigarette user. \_ECIGSTS is derived from ECIGARET and ECIGNOW.

1	Current E-cigarette	Respondents who reported having used E-cigarettes in their lifetime and now use
	user - uses every day	E-cigarettes every day. (ECIGARET=1 and ECIGNOW=1)

Current E-cigarette Respondents who reported having used E-cigarettes in their lifetime and now use user - uses some days E-cigarettes some days. (ECIGARET=1 and ECIGNOW=2)

Former E-cigarette Respondents who reported having used E-cigarettes in their lifetime and currently do not use E-cigarettes. (ECIGARET=1 and ECIGNOW=3)

Never used E-cigarettes Respondents who reported they had not used E-cigarettes in their lifetime. (ECIGARET=2)

Don't know/
Refused/Missing
Respondents who reported they didn't know if they had used E-cigarettes in their lifetime, those who refused to answer if they had used E-cigarettes in their lifetime, those who didn't know if they now used E-cigarettes every day, some days or not at all, those who refused to answer if they now used E-cigarettes every day, some days or not at all, or those with missing responses.

(ECIGARET=7, 9, missing; or ECIGNOW=7, 9, missing)

```
SAS Code:

IF ECIGARET=2 THEN _ECIGSTS=4;
ELSE IF ECIGARET=1 THEN DO;
IF ECIGNOW=1 THEN _ECIGSTS=1;
ELSE IF ECIGNOW=2 THEN _ECIGSTS=2;
ELSE IF ECIGNOW = 3 THEN _ECIGSTS=3;
ELSE _ECIGSTS=9;
END;
ELSE ECIGSTS=9;
```

#### **Section 10: E-Cigarettes**

\_CURECIG Calculated variable for adults who are current e-cigarette users. \_CURECIG is derived from \_ECIGSTS.

```
Not currently using E-cigarettes Respondents who reported they had not used E-cigarettes in their lifetime, those who reported having used E-cigarettes in their lifetime but do not currently use E-cigarettes. (_ECIGSTS=3, 4)
```

2 Current E-cigarette Respondents who reported having used E-cigarettes in their lifetime and currently use E-cigarettes. (\_ECIGSTS=1, 2)

Pon't know/
Refused/ Missing
Refused/ Missing
Respondents who reported they did not know if they had used E-cigarettes in their lifetime, those who refused to answer if they had used E-cigarettes in their lifetime, those who didn't know if they now used E-cigarettes every day, some days or not at all, those who refused to answer if they now used E-cigarettes every day, some days or not at all, or those with missing responses. (ECIGSTS=9)

```
SAS Code: IF _ECIGSTS IN (1,2) THEN _CURECIG=2; ELSE IF _ECIGSTS IN (3,4) THEN _CURECIG=1; ELSE CURECIG=9;
```

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#### **Section 11: Alcohol Consumption**

DRNKANY5 Calculated variable for adults who reported having had at least one drink of alcohol in the past
30 days DRNKANY5 is derived from ALCDAY5

	30 days DRNKANY5 is derived from ALCDAY5		
1	Yes	Respondents who reported drinking at least one alcoholic beverage in the past 30 days. $(1 \le ALCDAY \le 231)$	
2	No	Respondents who reported drinking no alcoholic beverages in the past 30 days. (ALCDAY5=888)	
7	Don't know/ 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>	

#### **Section 11: Alcohol Consumption**

Missing

DROCDY3\_ *Calculated variable for drink-occasions-per-day*. DROCDY3\_ is derived from ALCDAY5 by dividing the ALCDAY5 variable by 7 days per week or 30 days per month.

No Drink-Occasions Respondents reported no occasions per day that they consumed alcohol. (ALCDAY5=888)

1 - 899 Drink-Occasions per Respondents reported number of occasions per day that they consumed alcohol. (ALCDAY5 not equal to 777, 888, 999, or missing)

900 Don't know/Not Sure Or Refused/ One drink of alcohol, those who refused to answer how many days they had at least one drink of alcohol, those who refused to answer how many days they had at

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)

missing

SAS Code: 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;

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#### **Section 11: Alcohol Consumption**

_RFBING5		le for binge drinkers (males having five or more drinks on one occasion, females ore drinks on one occasion)RFBING5 is derived from DRNK3GE5 and
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/ 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:	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;

#### **Section 11: Alcohol Consumption**

\_DRNKWEK Calculated variable for calculated total number of alcoholic beverages consumed per week.

\_DRNKWEK is derived from DROCDY3\_ and AVEDRNK2 by multiplying the total number of drink occasions per day (DROCDY3\_) by the average number of drinks per occasion (AVEDRNK2) times seven days.

0 Did not drink Respondents who did not drink in the past month (DROCDY3 =0)

ELSE IF ALCDAY5 = 888 THEN RFBING5=1;

ELSE RFBING5=9;

0	Did not drink	Respondents who did not drink in the past month. (DROCDY3_=0)
1 - 98999	Number of drinks per week	Respondents reported number of alcoholic drinks in the past week. (0 < DROCDY3_ < 990)
99900	Don't know/	Respondents who refused to report the number of alcohol drinks consum

Don't know/
Not sure/ Refused/
Missing

Respondents who refused to report the number of alcohol drinks consumed per day or respondents who did not know the number of alcohol drinks consumed per day or those with missing responses or respondents who refused to report the number drink occasions per day or respondents who did not know the number of drink occasions per day or those with missing responses. (AVEDRNK2=.,77,99 or

```
DROCDY3_=900)
```

```
SAS Code:
    IF DROCDY3_=0 THEN _DRNKWEK=0;
    ELSE IF DROCDY3_=9 THEN _DRNKWEK=999;
    ELSE IF AVEDRNK2 IN (.,77,99) THEN _DRNKWEK=999;
    ELSE _DRNKWEK=AVEDRNK2*DROCDY3_*7;
    * DRNKWEK=ROUND(( DRNKWEK*100),1);
    *This is done after all of the alcohol calculations but the code is included here;
```

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#### **Section 11: Alcohol Consumption**

\_RFDRHV5 Calculated variable for heavy drinkers (adult men having more than 14 drinks per week and adult women having more than 7 drinks per week). \_RFDRHV5 is derived from \_DRNKWEK, ALCDAY5, and SEX.

1 No Male Respondents who reported having 14 drinks per week or less, or Female Respondents who reported having 7 drinks per week or less. (Sex=1 and DRNKWEK <= 1400 or Sex=2 and DRNKWEK <= 700 or ALCDAY5=888)

Male Respondents who reported having more than 14 drinks per week, or Female Respondents who reported having more than 7 drinks per week. (Sex=1 and DRNKWEK > 1400 or Sex=2 and DRNKWEK > 700)

Don't know/ Refused/Missing

2

9

Respondents with don't know, refused or missing responses for ALCDAY5 or \_DRNKWEK. (ALCDAY5=777, 999, or missing, or \_DRNKWEK=99, or missing)

**SAS Code:** 

Yes

```
IF SEX=1 AND _DRNKWEK NOTIN (999,.) THEN DO;
IF _DRNKWEK GT 14 THEN _RFDRHV5=2;
ELSE IF _DRNKWEK LE 14 THEN _RFDRHV5=1;
END;
ELSE IF SEX=2 AND _DRNKWEK NOTIN (999,.) THEN DO;
IF _DRNKWEK GT 7 THEN _RFDRHV5=2;
ELSE IF _DRNKWEK LE 7 THEN _RFDRHV5=1;
END;
ELSE IF ALCDAY5 EQ 888 THEN _RFDRHV5=1;
ELSE _RFDRHV5=9;
** ROUND OFF TO NO DECIMAL PLACES ** MULTIPLY BY 100 AND THEN ROUND OFF TO NO DECIMAL PLACES AND THEN REMOVE THE DECIMAL PLACES **;
DROCDY3_=round((DROCDY3_*100),1);
_DRNKWEK=ROUND((_DRNKWEK*100),1);
```

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#### **Section 12: Immunization**

```
FLSHOT6 Calculated variable for adults aged 65+ who have had a flu shot within the past year. FLSHOT6
             is derived from FLUSHOT6.
  1
                 Yes
                              Respondents aged 65 or older who reported having a flu shot within the past 12
                              months. (AGE \geq 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/
                              Respondents who did not know their age, those who refused to report their age,
        Not Sure Or Refused/ those who didn't 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
                              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)
                              IF AGE GE 65 THEN DO;
             SAS Code:
                               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=.;
```

#### **Section 12: Immunization**

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

	_PNEUMO2 is d	erived from PNEUVAC3.
1	Yes	Respondents aged 65 or older who reported having a pneumonia shot. (AGE $\ge$ 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/ Not Sure Or 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 13: Falls**

There are no calculated variables for Section 13.

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

\_RFSEAT2 Calculated variable for always or nearly always wear seat belts calculated variable. \_RFSEAT2 is derived from SEATBELT.

- Always or Almost Respondents who reported they always or nearly always use a seatbelt when Always Wear Seat they 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 don't know, are not sure, refused or with Not Sure Or Refused/ missing responses for if they use a seatbelt when they ride or drive in a car. Missing (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. \_RFSEAT3 is derived from SEATBELT.

- Always Wear Seat Respondents who reported they always use a seatbelt when they ride or drive in a 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/ Not Sure Or Refused/ Missing responses to if they use a seatbelt when they ride or drive in a car. (SEATBELT=7,9 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;

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#### **Section 15: Drinking and Driving**

\_DRNKDRV Calculated variable for drinking and driving. \_DRNKDRV is derived from DRNKDRI2.

- Have driven after having too much to drink

  Respondents who have reported having driven after drinking too much (1 LE DRNKDRI2 LE 76, 78 LE DRNKDRI2 LE 87, 89 LE DRNKDRI2 LE 98)
- Have not driven after Respondents who have not reported having driven after drinking too much having too much to (DRNKDRI2=88)

  drink
- 9 Don't know/ Respondents with don't know, refused, or missing responses for DRNKDRI2.
  Not Sure/ Refused/ (DRNKDRI2 =77,99 or rmissing)
  Missing

SAS Code: IF DRNKDRI2 IN (.,77,99) THEN \_DRNKDRV=9; ELSE IF DRNKDRI2=88 THEN \_DRNKDRV=2; ELSE DRNKDRV=1;

#### **Section 16: Breast and Cervical Cancer Screening**

\_RFMAM2Y Calculated variable for women respondents aged 40+ who have had a mammogram in the past two years. \_RFMAM2Y is derived from SEX, AGE, HADMAM, and HOWLONG.

1	Yes	Female respondents aged 40 and older who have received a mammogram within the past two years. (Sex=2 and AGE >= 40 and HADMAM=1 and HOWLONG=1,2)
2	No	Female respondents aged 40 and older who have not received a mammogram within the past two years. (Sex=2 and AGE >= 40 and HADMAM=2 or HADMAM=1 and HOWLONG=3,4,5)
9	Don't know/	Female respondents aged 40 and older with don't know, not sure, or refused

Not Sure/ Refused

Not Sure/ Refused

Not Sure/ Refused

responses for HADMAM or HOWLONG or female respondents with don't know, not sure, refused or missing responses for AGE, HADMAM or HOWLONG. (Sex=2 and HADMAM=7,9, missing or HOWLONG=7,9, missing or AGE=7,9,missing)

Missing or Age less Female respondents less than 40 years old, or male respondents. (SEX=1 or SEX=2 than 40 or Male and AGE < 40)

```
IF SEX=2 AND AGE GE 40 THEN DO;
IF HADMAM=1 THEN DO;
IF HOWLONG IN (1,2) THEN _RFMAM2Y=1;
ELSE IF HOWLONG IN (3,4,5) THEN _RFMAM2Y=2;
ELSE IF HOWLONG IN (7,9,.) THEN _RFMAM2Y=9;
END;
ELSE IF HADMAM=2 THEN _RFMAM2Y=2;
ELSE IF HADMAM IN (7,9,.) THEN _RFMAM2Y=9;
END;
ELSE IF SEX=2 AND AGE IN (.,7,9) THEN _RFMAM2Y=9;
```

ELSE RFMAM2Y=.;

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#### Section 16: Breast and Cervical Cancer Screening

MAM5021 Calculated variable for women respondents aged 50-74 who have had a mammogram in the past two years. \_MAM5021 is derived from SEX, AGE, HADMAM, and HOWLONG.

1 Received a Female respondents aged 50-74 who have received a mammogram within the mammogram within past two years. (SEX=2 and 50 <= AGE <= 74 and HADMAM=1 and HOWLONG=1,2) the past 2 years.

Did not receive a mammogram within the past 2 years.

2

Female respondents aged 50-74 who have not received a mammogram within the past two years. (SEX=2 and 50 <= AGE <= 74 and HADMAM=2 or HADMAM=1 and HOWLONG=3,4,5)

Missing, Age less than 50 or greater than 74 or Male

Female respondents less than 50 years old, greater than 74 years old or male respondents. (SEX=1 or SEX=2 and AGE < 50 or SEX=2 and AGE > 74)

**SAS Code:** 

```
IF SEX=2 AND 50 LE AGE LE 74 THEN DO;
 IF HADMAM=2 THEN MAM5021=2;
ELSE IF HADMAM=1 THEN DO;
IF HOWLONG IN (1,2) THEN MAM5021=1;
ELSE IF HOWLONG IN (3,4,5) THEN MAM5021=2;
END;
```

#### **Section 16: Breast and Cervical Cancer Screening**

RFPAP33 Calculated variable for women respondents aged 21-65 who have had a pap test in the past three years. RFPAP33 is derived from the variables SEX, AGE, HADHYST2, HADPAP2, and LASTPAP2.

1 within the past 3 vears.

Received a Pap test Female respondents aged 21-65, with intact cervix, who have received a pap smear within the past three years. (SEX=2 and 21 <= AGE <= 65 and HADHYST2 NE 1 and HADPAP2=1 and LASTPAP2=1,2,3)

2 test within the past 3 years.

Did not receive a Pap Female respondents aged 21-65, with intact cervix, who have not received a pap smear within the past three years. (SEX=2 and AGE GE 18 and HADHYST2 NE 1 and HADPAP2=2 or HADPAP2=1 and LASTPAP2=4,5)

Missing or Male

Female respondents aged 18-20 or aged 65+ or aged 21-65 with missing responses for HADPAP2 or LASTPAP2, or with yes, responses for having had a hysterectomy or male respondents. (SEX=2 and AGE < 21 or AGE > 65 or SEX=2 and 21 <= AGE <= 65 and HADHYST2=1 AND HADPAP2=missing or LASTPAP2=missing or SEX=1)

**SAS Code:** 

```
IF SEX=2 AND HADHYST2=2 AND 21 LE AGE LE 65 THEN DO;
IF HADPAP2=2 THEN RFPAP33=2;
ELSE IF HADPAP2=1 THEN DO;
IF LASTPAP2 IN (1,2,3) THEN RFPAP33=1;
ELSE IF LASTPAP2 IN (4,5) THEN RFPAP33=2;
END;
END;
```

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#### **Section 17: Prostate Cancer Screening**

\_RFPSA21 Calculated variable for male respondents aged 40+ who have had a PSA test in the past 2 years.

RFPSA21 is derived from SFX\_AGE\_PSATEST1\_and PSATIME

	_RFPSA21 is de	rived from SEX, AGE, PSATESTI, and PSATIME.
1	Yes	Male respondents aged 40 and older who have had a PSA test within the past two years. (SEX=1 and AGE >= 40 and PSATEST1=1 and PSATIME=1 or 2)
2	No	Male respondents aged 40 and older who have not received a PSA test within the past two years. (SEX=1 and AGE >= 40 and PSATEST1=2 or PSATEST=1 and PSATIME=3 or 4 or 5)
9	Don't know/ Not Sure/ Refused	Male respondents aged 40 and older with don't know, not sure or refused responses for PSATEST or PSATIME or male respondents with don't know, not sure, refused or missing responses to AGE. (SEX=1 and AGE >= 40 and PSATEST1=7,9 or PSATIME=7,9 or SEX=1 and AGE=7,9,missing)
•	Missing or Age less than 40 or Female	Male respondents aged 40 and older with missing responses for PSATEST or PSATIME, Male respondents aged less than 40, or female respondents. (SEX=1 and AGE >=40 and PSATEST1=missing or PSATIME=missing or SEX=1 and AGE < 40 or SEX=2)
	SAS Code:	IF (SEX=1) AND (AGE GE 40) THEN DO; IF PSATEST1=1 THEN DO; IF PSATIME IN (1,2) THEN _RFPSA21=1; ELSE IF PSATIME IN (3,4,5) THEN _RFPSA21=2; ELSE IF PSATIME IN (7,9) THEN _RFPSA21=9:

ELSE IF PSATIME IN (1,2) THEN \_RFFSA21=1,
ELSE IF PSATIME IN (3,4,5) THEN \_RFPSA21=2;
ELSE IF PSATIME IN (7,9) THEN \_RFPSA21=9;
ELSE IF PSATIME=. THEN \_RFPSA21=.;
END;
ELSE IF PSATEST1=2 THEN \_RFPSA21=2;
ELSE IF PSATEST1 IN (7,9) THEN \_RFPSA21=9;
ELSE IF PSATEST1=. THEN \_RFPSA21=.;
END;
ELSE IF (SEX=1) AND AGE IN (.,7,9) THEN \_RFPSA21=9;
ELSE RFPSA21=.;

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#### **Section 18: Colorectal Cancer Screening**

\_RFBLDS3 Calculated variable for respondents aged 50-75 who have had a blood stool test within the past year. RFBLDS3 is derived from AGE, BLDSTOOL, and LSTBLDS3.

- Had a blood stool Respondents aged 50-75 who have had a blood stool test within the past year. (50<= AGE <=75 and BLDSTOOL=1 and LSTBLDS3=1,2)
- 2 Have not had a blood Respondents aged 50-75 who have not received a blood stool test within the past stool test in the past year. (50<= AGE <=75 and BLDSTOOL=2 or BLDSTOOL=1 and LSTBLDS3=3,4) year
  - Missing, Age less than 50, Age greater than 75

    Respondents aged 50 -75 with don't know, refused or missing responses for BLDSTOOL or LSTBLDS3, or respondents aged less than 50, or respondents aged greater than 75. (50<= AGE <=75 and BLDSTOOL=missing or LSTBLDS3=missing or AGE<50 or AGE>75)

```
SAS Code:
IF 50 <= AGE <= 75 THEN DO;
IF BLDSTOOL=2 THEN _RFBLDS3=2;
ELSE IF BLDSTOOL=1 THEN DO;
IF LSTBLDS3=1 THEN _RFBLDS3=1;
ELSE IF LSTBLDS3 IN (2,3,4,5) THEN _RFBLDS3=2;
END;
END;
END;
```

### **Section 18: Colorectal Cancer Screening**

SAS Code:

\_COL10YR Calculated variable for respondents aged 50-75 that who have had a colonoscopy in the past 10 years. \_COL10YR is derived from AGE, HADSIGM3 and LASTSIG3.

- Respondents aged 50-75 who have had a colonoscopy in the past 10 years (50<= colonoscopy within the past 10 years 10 years
- Did not receive a colonoscopy within the past 10 years

  Respondents aged 50-75 who have not had a colonoscopy in the past 10 years. (50<= AGE <=75 and HADSIGM3=2, or HADSIGM3=2 and LASTSIG3=6)
- Missing or Aged less Respondents aged 50-75 with missing responses for HADSIGM3 or LASTSIG3, than 50 or Aged greater than 75 or respondents aged less than 50, or respondents aged greater than 75. (50<= AGE <=75 and HADSIGM3=missing or LASTSIG3=missing or AGE < 50 or AGE > 75)

```
IF 50 <= AGE <= 75 THEN DO;
IF HADSIGM3=2 THEN _COL10YR=2;
ELSE IF HADSIGM3=1 THEN DO;
IF HADSGC01=2 AND LASTSIG3 IN (1,2,3,4,5) THEN COL10YR=1;
ELSE IF LASTSIG3=6 THEN _COL10YR=2;
END;
END;</pre>
```

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#### **Section 18: Colorectal Cancer Screening**

HFOB3YR Calculated variable for respondents aged 50-75 who have had a blood stool test within the past 3 years. \_HFOB3YR is derived from AGE, BLDSTOOL, HADSGCO1 and LSTBLDS3.

1 Received a home Respondents aged 50-75 who have had a blood stool test within the past 3 years. FOBT within the past (50<= AGE <=75 and BLDSTOOL=1 and LSTBLDS3=1,2,3) 3 years

2 Did not receive a home FOBT within the past 3 years

Respondents aged 50-75 who have not received a blood stool test within the past 3 years. (50<= AGE <=75 and BLDSTOOL=2 or BLDSTOOL=1 and LSTBLDS3=4)

Missing or Age less than 50 or Age greater than 75

Respondents aged 50-75 with missing responses for BLDSTOOL or LSTBLDS3 or HADSGCO1, or respondents aged less than 50 or respondents aged greater than 75. (50<= AGE <=75 and BLDSTOOL=missing or LSTBLDS3=missing or AGE<50 or AGE>75)

**SAS Code:** 

```
IF 50 <= AGE <= 75 THEN DO;
 IF BLDSTOOL=2 THEN HFOB3YR=2;
 ELSE IF BLDSTOOL=1 THEN DO;
 IF LSTBLDS3 IN(1,2,3) THEN HFOB3YR=1;
 ELSE IF LSTBLDS3 IN (4,5) THEN HFOB3YR=2;
 END;
 END;
```

#### **Section 18: Colorectal Cancer Screening**

Calculated variable for respondents aged 50-75 who have had a sigmoidoscopy within the past 5 years. FS5YR is derived from AGE, HADSIGM3, HADSGCO1 and LASTSIG3.

- 1 Received a Respondents aged 50-75 who have had a sigmoid oscopy within the past 5 years. sigmoidoscopy within (50<= AGE <=75 and HADSIGM3=1 and HADSGCO1=1 and LASTSIG3=1,2,3,4) the past 5 years
- 2 Did not receive a Respondents aged 50-75 who have not received a sigmoidoscopy within the past sigmoidoscopy within 5 years. (50<= AGE <=75 and HADSIGM3=2, or HADSIGM3=1 and LASTSIG3=5,6) the past 5 years

than 50 or Age greater than 75

Missing or Age less Respondents aged 50-75 with missing responses for HADSIGM3 or LASTSIG3 or HADSCO1, or respondents aged less than 50 or respondents aged greater than 75. (50<= AGE <=75 and HADSIGM3=missing or LASTSIG3=missing or HADSGCO1=missing or AGE<50 or AGE>75)

**SAS Code:** 

```
IF 50 <= AGE <= 75 THEN DO;
IF HADSIGM3=2 THEN FS5YR=2;
ELSE IF HADSIGM3=1 THEN DO;
IF HADSGCO1=1 AND LASTSIG3 IN (1,2,3,4) THEN FS5YR=1;
ELSE IF LASTSIG3 IN (5,6) THEN FS5YR=2;
END;
END;
```

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#### **Section 18: Colorectal Cancer Screening**

FOBTFS Calculated variable for respondents aged 50-75 who have had a blood stool test within the past 3 years and a sigmoidoscopy within the past 5 years. \_FOBTFS is derived from AGE, \_HFOB3YR, and \_FS5YR

1 Did have had a Respondents aged 50–75 who have had a sigmoidoscopy within the past 5 years sigmoidoscopy within and a blood stool test within the past 3 years. (50<= AGE <=75 and HFOB3YR=1 and the past 5 years and a \_FS5YR=1)

blood stool test within the past 3 years.

2 Did not receive a not receive a blood stool test within the past 3 years

Respondents aged 50–75 who have not received a sigmoidoscopy within the past sigmoidoscopy within 5 years or did not receive a blood stool test within the past 3 years (50<= AGE the past 5 years or did <=75 and \_HFOB3YR=2 or \_FS5YR=2)

than 50 or Aged greater than 75

Missing or Aged less Respondents aged 50-75 with missing responses for \_HFOB3YR or \_FS5YR, or respondents aged less than 50 or respondents aged greater than 75. (50<= AGE <=75 and HFOB3YR=missing or FS5YR=missing or both are missing)

**SAS Code:** 

```
IF 50 <= AGE <= 75 THEN DO;
IF HFOB3YR=1 AND FS5YR=1 THEN FOBTFS=1;
ELSE IF HFOB3YR=2 or FS5YR=2 THEN FOBTFS=2;
END;
```

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#### Section 18: Colorectal Cancer (CRC) Screening

\_CRCREC Calculated variable for respondents aged 50-75 who have fully met the USPSTF recommendation.
\_CRCREC is derived from AGE,\_HFOB1YR, \_FOBTFS, \_COL10YR, \_HFOB3YR,
HADSIGM3, LASTSIG3

1 Received one or more of the recommended CRC tests within the recommended time interval

Respondents age 50-75 who did received one or more of the recommended CRC tests within the recommended time interval (50 <= AGE <= 75 and \_RFBLDS3=1 or \_FOBTFS=1 or \_COL10YR=1 or \_HFOB3YR=1 AND HADSIGM3=1 AND LASTSIG3 IN (1,2,3,4))

2 Did not receive one or more of the recommended CRC tests within the recommended time

Respondents age 50-75 who did not receive one or more of the recommended CRC tests within the recommended time interval (50 <= AGE <= 75 and \_RFBLDS3=2 AND \_FOBTFS=2 AND \_COL10YR=2)

Missing or Age less than 50 or Age greater than 75

interval

Respondents aged 50-75 with missing responses for \_HFOB1YR or \_FOBTFS or \_COL10YR or \_HFOB3YR or HADSIGM3 or LASTSIG3, or respondents aged less than 50 or respondents aged greater than 75. (50 <= AGE <= 75 and \_RFBLDS3=missing or don't know or refused or FOBTFS=missing don't know or refused or COL10YR=missing don't know or refused or AGE < 50 or AGE > 75)

**SAS Code:** 

IF 50 <= AGE <= 75 THEN DO;
IF \_RFBLDS3=1 or \_FOBTFS=1 or \_COL10YR=1 THEN \_CRCREC=1;
ELSE IF \_RFBLDS3=2 AND \_FOBTFS=2 AND \_COL10YR=2 THEN \_CRCREC=2;
ELSE IF \_HFOB3YR=1 AND HADSIGM3=1 AND LASTSIG3 IN (1,2,3,4)
THEN \_CRCREC=1;
END;</pre>

#### **Section 19: HIV/AIDS**

\_AIDTST3 Calculated variable for adults who have ever been tested for HIV. \_AIDTST3 is derived 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/ Respondents who reported they did not know if they had been tested for HIV or Not Sure/ Refused 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:

IF HIVTST6=1 THEN \_AIDTST3=1;

ELSE IF HIVTST6=2 THEN \_AIDTST3=2;

ELSE IF HIVTST6 IN (7,9) THEN \_AIDTST3=9;

ELSE IF HIVTST6=. THEN AIDTST3=.;

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