

# Calculated Variables in the 2014

# Behavioral Risk Factor Surveillance System

# Data File

(Version #7 - Revised: August 6, 2015)



#### **INDRODUCTION:**

This document provides information on calculated variables for the 2014 Behavioral Risk Factor Surveillance System survey. These variables are calculated from responses to questions in the survey. 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 that are 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.

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Calculated Variables in the 2014 Behavioral Risk Factor Surveillance System Data File (continued)

#### **NEW CALCULATED VARIABLES FOR 2014**

- COL10YR was added in 2014.
- \_CPRACE was added in 2014.
- \_CRCREC was added in 2014.
- **\_FOBT1YR** was added in 2014.
- **FOBTFS** was added in 2014.
- FS5YR was added in 2014.
- \_HFOB3YR was added in 2014.
- **MAM5021** was added in 2014.
- **RFBLDS3** was added in 2014.
- RFPAP33 was added in 2014.

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

_RFHLTF	H Calculated varial	Calculated variable for adults with good or better healthRFHLTH is derived from GENHLTH.		
1	Good or Better 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/ Not Sure Or Refused/ 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. HCVU651 is derived from AGE and HLTHPLN1.

	_11C v 0031 is derived from MOE and TiE11ii Eivi.		
1	Have health care coverage	Respondents who reported having health care coverage (18 $\leq$ AGE $\leq$ 64 and HLTHPLN1 = 1)	
2	Do not have health care coverage	Respondents who reported not having health care coverage ( $18 \le AGE \le 64$ 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 <= AGE <= 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; ELSE HCVU651 = 9;</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.

1 Had physical Respondents who reported doing any physical activity 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**

\_LTASTH1 Calculated variable for adults who have ever been told they have asthma. \_LTASTH1 is derived from ASTHMA3.

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/ 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, or those with missing responses. (ASTHMA3=7, 9, missing)

or those with impoing responses. (Fig. 1)

SAS Code: IF ASTHMA3=1 THEN \_LTASTH1=2; ELSE IF ASTHMA3=2 THEN \_LTASTH1=1; ELSE LTASTH1=9;

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

_CASTHN		able for adults who have been told they currently have asthmaCASTHM1 is STHMA3 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/ 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:	<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 6: Chronic Health Conditions**

Section 6: (	Inronic Health Co	naitions
_ASTHMS	1 Calculated varia ASTHNOW.	able 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)
9	Don'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 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>

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#### **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.

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 arthritis (HAVARTH2=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 (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 7: Oral Health**

9

\_EXTETH2 Calculated variable for adults aged 18+ who have had permanent teeth extracted. \_EXTETH2 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/ Not Sure Or Refused/ Missing Respondent who reported they didn't know, refused to answer, or had missing values for the had any permanent teeth extracted question. (RMVTETH3=7, 9, missing)

SAS Code: IF RMVTETH3 IN (1,2,3) THEN \_EXTETH2=2; ELSE IF RMVTETH3=8 THEN \_EXTETH2=1; ELSE \_EXTETH2=9;

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

_ALTETI		ble for adults aged 65+ who have had all their natural teeth extracted.
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. $(AGE > 64 \text{ and } RMVTETH3=3)$
9	Don't know/ Not Sure Or Refused/ Missing	Respondents who didn't know, or refused to report their age or didn't know, or refused to report if they had any natural teeth removed. (AGE=7, 9, missing; or RMVTETH3=7, 9, missing)
•	Missing or Age Less Than 65	Respondents aged 18–64. (18 <= AGE <= 64)
	SAS Code:	<pre>IF AGE &gt;= 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=.;</pre>

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

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

	ine pasi year1	DENVS12 is derived from LAST DENS.
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/ Not Sure Or Refused/ Missing	Respondents with missing values or who refused or didn't know if they had a dental visit in the past year. (LASTDEN3=7,9 or missing)
	SAS Code:	<pre>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;</pre>

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# Section 8: Demographics MRACORG1 Calculated y

section o.	Demographics	
MRACOR	MRACE1 in the territory. If MRA	riable for mrace1 with 77,80,88,90s removed. MRACORG1 is derived from a original order in which the data were received from the state ACE1 is greater than 99 then any 77, 80, 88, or 99 is removed. If MRACE1 is all to 99 then MRACORG1 is equal to MRACE1.
10 - 6.05E9	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/ Not sure	Respondents who reported they didn't know, or weren't sure 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>

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MRACASC1 Calculated variable for mrace with 7,8,9s 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/ Not
                           Respondents who reported they didn't know, or weren't sure of their race.
                           (MRACORG1=77)
               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.);
                           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.);
                           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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occuon o	Demographics	
_PRACE	ORACE3. If MR	le 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		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=3;  ELSE IF 40 LE ORACE3 LE 49 THEN _PRACE1=4;  ELSE IF 50 LE ORACE3 LE 59 THEN _PRACE1=5;  ELSE IF ORACE3 EQ 60 THEN _PRACE1=6;  END;

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Section 8	8: Demographics	
_MRAC	MRACASC1. If category. If MRA	ble 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		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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_M_RA	MRACASC1. If	ble for calculated multiracial race categorizationM_RACE is derived from respondents reported more than one race they are assigned to the multiracial vise _M_RACE=MRACASC1.
10	White	Respondents who reported being white (MRACASC1=10)
20	Black or African American	Respondents who reported being black or Arican 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	Japanese	Respondents who reported being Japanese (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	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 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

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 Respondents who reported they did not know if they were of Hispanic, Latino/a,

Missing 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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```
Calculated variable for race
_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.
                             Respondents who reported they are white and not of Hispanic origin.
  1
             White only,
                             ( 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 Alaska Native and not of
        Alaskan Native only, Hispanic origin. (MRACE1=3 and HISPANC=2)
            Non-Hispanic
  4
             Asian only,
                             Respondents who reported they are Asian and not of Hispanic origin.
            non-Hispanic
                             ( MRACE1=4 and HISPANC=2)
  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
           Other race only,
                             Respondents who reported they are of some other race group not listed in the
  6
                             question responses and are not of Hispanic origin. (MRACE1=6 and HISPANC=2)
            non-Hispanic
  7
             Multiracial,
                             Respondents who reported they are of more than one race group and are not of
            non-Hispanic
                             Hispanic origin. (MRACE1=7 and HISPANC=2)
  8
              Hispanic
                             Respondents who reported they are of Hispanic origin. (HISPANC=1)
  9
           Don't know/ Not
                             Respondents who reported they did not know, or refused to give their race and
            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)

2 Non-White or Hispanic 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.

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

4 Multiracial, Respondents who reported being multiracial but not of Hispanic origin Non-Hispanic (\_RACE=7)

Hispanic Respondents who reported they are of Hispanic origin. (\_RACE=8)

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 _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.

		<del></del>
1	White - Non-Hispanic	Respondents who reported they are white and not of Hispanic origin. (_RACEGR3=1)
2	Black - 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, Non-Hispanic	All other respondents with valid race responses except for those reporting multiracial or Hispanic origins. (_RACEGR3=3)
5	Multiracial, Non-Hispanic	All other respondents reporting multiracial but non-Hispanic origin. (_RACEGR3=4)
•	Don't know/ Not sure/ Refused	Respondents with don't know, refused or missing values for _RACEGR2. (_RACEGR3=9, missing)
	component question	
	SAS Code:	<pre>IF _RACEGR3 = 1 THEN _RACE_G1 = 1;</pre>

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)
            Age 55 to 59
  8
                             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)
             Don't know/
  14
                             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;
                              ELSE AGEG5YR = 14;
```

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

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

```
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)

Bon't know/ Refused/ Missing 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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_AGE_G	Calculated variation (imputed age).	ble for six-level imputed age categoryAGE_G is derived from _IMPAGE		
1	Age 18 to 24	Respondents with imputed ages between $18-24$ years of age. ( $18 \le IMPAGE \le 24$ )		
2	Age 25 to 34	Respondents with imputed ages between 25–34 years of age. ( $25 \le IMPAGE \le 34$ )		
3	Age 35 to 44	Respondents with imputed ages between 35–44 years of age. (35 <= _IMPAGE <= 44)		
4	Age 45 to 54	Respondents with imputed ages between $45-54$ years of age. ( $45 \le IMPAGE \le 54$ )		
5	Age 55 to 64	Respondents with imputed ages between 55–64 years of age. (55 <= _IMPAGE <= 64)		
6	Age 65 or older	Respondents with imputed ages between 65–99 years of age. (_IMPAGE => 65)		
	SAS Code:	<pre>IF (18&lt;=_IMPAGE&lt;=24) THEN _AGE_G = 1; ELSE IF (25&lt;=_IMPAGE&lt;=34) THEN _AGE_G = 2; ELSE IF (35&lt;=_IMPAGE&lt;=44) THEN _AGE_G = 3; ELSE IF (45&lt;=_IMPAGE&lt;=54) THEN _AGE_G = 4; ELSE IF (55&lt;=_IMPAGE&lt;=64) THEN _AGE_G = 5; ELSE IF (_IMPAGE &gt;= 65) THEN _AGE_G = 6;</pre>		

Section 8:	Demographics		
HTIN4	Calculated variable for reported height in inches. HTIN4 is derived from HEIGHT2. HTIN4 is calculated 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)		
1		Respondents who reported they didn't know, were not sure, refused to report or had missing responses for their height. (HEIGHT3=777, 999, 7777, 9999 or missing or HEIGHT3 < 36 inches or HEIGHT3 > 95 inches)	
	SAS Code:	<pre>IF 300&lt;=HEIGHT3&lt;=311 THEN HTIN4=((HEIGHT3-300)+36); ELSE IF 400&lt;=HEIGHT3&lt;=411 THEN HTIN4=((HEIGHT3-400)+48); ELSE IF 500&lt;=HEIGHT3&lt;=511 THEN HTIN4=((HEIGHT3-500)+60); ELSE IF 600&lt;=HEIGHT3&lt;=611 THEN HTIN4=((HEIGHT3-600)+72); ELSE IF 700&lt;=HEIGHT3&lt;=711 THEN HTIN4=((HEIGHT3-700)+84);</pre>	

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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  $HTM4 = (HEIGHT3 - 9000) \div 100)$ implied decimal places] 999 Don't know/ Respondents who reported they didn't 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 < 0.91 meters or HEIGHT3 2.44 meters) IF 300 <= HEIGHT3 <= 711 THEN HTM4=HTIN4\*0.0254;</pre> **SAS Code:** 

#### **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]

99999 Don't know/ Refused/ Missing Respondents who reported they didn't know, were not sure, refused to report or had missing responses for their weight.

ELSE IF 9091 <= HEIGHT3 < 9244 THEN HTM4=(HEIGHT3-9000)/100;

**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))

IF \_BMI5 < 12.00 THEN \_BMI5=.;
IF PREGNANT=1 THEN BMI5=.;</pre>

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)

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```
_BMI5CAT Calculated variable for four-categories of body mass index (bmi). _BMI5CAT is derived from
            BMI5.
            Underweight
  1
                             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
  4
               Obese
                             Respondents classified as obese based on body mass index. (30.00 <= BMI5 <
                             99.99)
            Don't know/
                             Respondents with an unknown, refused, or missing value for body mass index.
          Refused/ Missing
                             ( BMI5=.)
                             IF (0.00 LE BMI5 < 18.50) THEN BMI5CAT=1;
             SAS Code:
                              ELSE IF (18.50 LE _BMI5 < 25.00) THEN _BMI5CAT=2;
                              ELSE IF (25.00 LE BMI5 < 30.00) THEN BMI5CAT=3;
                             ELSE IF BMI5 GE 30.00 THEN BMI5CAT=4;
```

#### **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
                             \leq BMI5 \leq 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.
          Refused/ Missing
                            ( 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);
```

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```
_CHLDCNT Calculated variable for number of children in household. _CHLDCNT is derived from
            CHILDREN.
  1
           No children in
                            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
                            Respondents who reported having three children. (CHILDREN=3)
  4
             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
                            Respondents who reported they didn't know, were not sure, refused or had a
  9
          Don't know/ 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
           Graduated High
  2
                             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/ Not
                             Respondents who reported they didn't know, were not sure, refused, or had a
                             missing value for EDUCA. (EDUCA=9, missing)
            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**

```
Calculated variable for income categories. _INCOMG is derived from INCOME2.
INCOMG
  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/ Not
                             Respondents who refused to answer, didn't know or had a missing value for
            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**

9

_SMOKER3	Calculated variable for four-level smoker status:	everyday smoker, someday smoker, former
	smoker, non-smokerSMOKER3 is derived from	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)
	dav	

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

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)

Don't know/
Refused/ 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:

IF SMOKE100=2 THEN \_SMOKER3=4;
ELSE IF SMOKE100=1 THEN DO;
IF SMOKDAY2=1 THEN \_SMOKER3=1;
ELSE IF SMOKDAY2=2 THEN \_SMOKER3=2;
ELSE IF SMOKDAY2 = 3 THEN \_SMOKER3=3;
ELSE \_SMOKER3=9;
END;
ELSE SMOKER3=9;

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

9

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

2 Yes Respondents who reported having smoked at least 100 cigarettes in their lifetime and currently smoke. (\_SMOKER3=1, 2)

Don't know/
Refused/ 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: IF _SMOKER3 IN (1,2) THEN _RFSMOK3=2;
ELSE IF _SMOKER3 IN (3,4) THEN _RFSMOK3=1;
ELSE RFSMOK3=9;
```

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

	30 days DRNKANY5 is derived from AKCDAY5			
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 10: Alcohol Consumption**

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.

	$\mathcal{C}$	J		1		<i>J</i> 1		
0	No Drink-Occasions	Respondents reported	d no	occasions	per day	that they	y consumed alcohol.	
	per dav	(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)
  - Don't know/ Not Sure Or Refused/ Sure Or Refused/ Missing 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)

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_RFBING5		ble 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:	<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>

#### **Section 10: Alcohol Consumption**

```
_DRNKDY4 Calculated variable for calculated total number of alcoholic beverages consumed per day.
              _DRNKDY4 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).
             Did not drink
   0
                              Respondents who did not drink in the past month. (DROCDY3 =0)
1 - 9899
           Number of drinks
                              Respondents reported number of alcoholic drinks in the past month. (0 <
                              DROCDY3_ < 990)
               per day
 9900
           Don't know/ Not
                              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
            sure/ Refused/
                              per day, or those with missing responses or respondents who refused to report
               Missing
                              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);
                              *This is done after all of the alcohol calculations but the code is
                              included here;
```

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9999

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

Did not drink in the Respondents who did not consume any drinks of alcohol in the past month.

past month (\_DRNKDY4=0)

1 - 9998 Number of Drinks Respondents reported number of alcoholic drinks per day. (0 < \_DRNKDY4 < 9900)

Don't know/ 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: 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;

#### **Section 10: Alcohol Consumption**

\_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). \_RFDRHV4 is derived 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 drinks 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/ Respondents with don't know, refused or missing responses for ALCDAY5 or

Refused/ Missing \_DRNKDY4. (ALCDAY5=777, 999, or missing, or \_DRNKDY43=99, or missing)

SAS Code: 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;

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```
_RFDRMN4 Calculated variable for adult men who are heavy drinkers (having more than two drinks per day).
            RFDRMN4 is derived from DRNKDY4 and SEX and ALCDAY5.
                            Male Respondents who reported having 2 drinks per day or less. (SEX=1 and
  1
                No
                            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/
                            Male respondents with don't know, refused or missing responses for ALCDAY5
          Refused/ Missing
                            or DRNKDY4. (SEX=1 and ALCDAY5=777, 999, or missing, or DRNKDY4=99, or
                            missing)
                            Female respondents. (SEX=2)
            Respondent is
              female
                            IF SEX=1 THEN DO;
             SAS Code:
                             IF DRNKDY4 NOTIN (99,.) THEN DO;
                             IF DRNKDY4 GT 2 THEN RFDRMN4=2;
                             ELSE IF DRNKDY4 LE 2 THEN RFDRMN4=1;
                             ELSE IF ALCDAY5 IN (888) THEN RFDRMN4=1;
                            ELSE _RFDRMN4=9;
                             END;
                             ELSE IF SEX=2 THEN RFDRMN4=.;
```

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Refused/ Missing

```
_RFDRWM4 Calculated variable for adult women who are heavy drinkers (having more than one drink per day). RFDRWM4 is derived 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/ Female respondents with don't know, refused or missing responses for
```

\_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);
```

Despendents aged 65 or older who reported having a flu shot within the post 12

ALCDAY5 or DRNKDY4. (SEX=2 and ALCDAY5=777, 999, or missing, or

#### **Section 11: Immunization**

1

Vac

\_FLSHOT6 Calculated variable for adults aged 65+ who have had a flu shot within the past year. \_FLSHOT6 is derived from FLUSHOT6.

DRNKDY4=ROUND(( DRNKDY4\*100),1);

1	res	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 >= 65 and FLUSHOT6=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 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 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:

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=.;
```

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#### **Section 11: Immunization**

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

		derived from Five 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. $(AGE >= 65 \text{ and } FLUSHOT3=2)$		
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:</pre>		

ELSE IF AGE IN (.,7,9) THEN PNEUMO2=9;

ELSE PNEUMO2=.;

#### **Section 12: Falls**

There are no calculated variables for Section 12.

#### **Section 13: Seatbelt Use**

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

- Always or Almost Always Wear Seat Respondents who reported they always or nearly always use a seatbelt when 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/ Not Sure Or Refused/ 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;

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#### **Section 13: Seatbelt Use**

9

\_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 Missing Respondents who reported they don't know, are not sure, refused or have 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;

#### **Section 14: Drinking and Driving**

There are no calculated variables for Section 14.

#### **Section 15: 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 $\geq$ = 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/ Not Sure/ Refused Female respondents aged 40 and older with don't know, not sure, or 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 15: Breast and Cervical Cancer Screening**

_MAM50		able for women respondents aged 50+ who have had a mammogram in the past M502y is derived from SEX, AGE, HADMAM, and HOWLONG.
1	Yes	Female respondents aged 50 and older who have received a mammogram within the past two years. (SEX=2 and AGE >= 50 and HADMAM=1 and HOWLONG=1,2)
2	No	Female respondents aged 50 and older who have not received a mammogram within the past two years. (SEX=2 and AGE >= 50 and HADMAM=2 or HADMAM=1 and HOWLONG=3,4,5)
9	Don't know/ Not Sure/ Refused	Female respondents aged 50 and older with don't know, not sure, or 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 than 50 or Male	Female respondents less than 50 years old, or male respondents. (SEX=1 or SEX=2 and AGE $\!<\!50)$
	SAS Code:	<pre>IF SEX=2 AND AGE GE 50 THEN DO; IF HADMAM=1 THEN DO; IF HOWLONG IN (1,2) THEN _MAM502Y=1; ELSE IF HOWLONG IN (3,4,5) THEN MAM502Y=2; ELSE IF HOWLONG IN (7,9) THEN _MAM502Y=9; END; ELSE IF HADMAM=2 THEN _MAM502Y=2;</pre>

#### **Section 15: 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.

ELSE MAM502Y=.;

ELSE IF HADMAM IN (7,9,.) THEN MAM502Y=9;

ELSE IF SEX=2 AND AGE IN (.,7,9) THEN MAM502Y=9;

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 mammogram within the past 2 years. 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 years old, greater than 74 years old or male 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;

END;
```

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#### **Section 15: Breast and Cervical Cancer Screening**

2

9

RFPAP32 Calculated variable for women respondents aged 18+ who have had a pap test in the past three years. RFPAP32 is derived from the variables SEX, AGE, HADHYST2, PREGNANT, HADPAP2, and LASTPAP2.

1 Yes Female respondents aged 18 and older, with intact cervix, who have received a pap smear within the past three years. (SEX=2 and AGE GE 18 and HADHYST2 NE 1 or PREGNANT=1 and HADPAP2=1 and LASTPAP2=1,2,3)

No Female respondents aged 18 and older, 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

or PREGNANT=1 and HADPAP2=2 or HADPAP2=1 and LASTPAP2=4,5)

Don't know/ Not Female respondents aged 18 and older, with intact cervix, with don't know, not Sure/ Refused sure or refused responses for HADPAP2 or LASTPAP2 or females with don't know, not sure, refused or missing responses to AGE. (SEX=2 and AGE GE 18 and HADHYST2 NE 1 or PREGNANT=1 and HADPAP2=7,9 or LASTPAP2=7,9 or

AGE=7,9,missing)

Missing or Male Female respondents aged 18 and older with missing responses for HADPAP2 or

> LASTPAP2, or with yes, responses for having had a hysterectomy or male respondents. (SEX=2 and AGE >=18 and HADHYST2=1 AND PREGNANT NE 1 or HADPAP2=missing or LASTPAP2=missing or SEX=1)

IF SEX=2 AND HADHYST2=1 AND PREGNANT NE 1 THEN DO; SAS Code:

RFPAP32=.; END; ELSE DO; IF SEX=2 AND AGE >= 18 THEN DO; IF HADPAP2=1 THEN DO; IF 1 LE LASTPAP2 LE 3 THEN RFPAP32=1; ELSE IF 4 LE LASTPAP2 LT 7 THEN RFPAP32=2; ELSE IF LASTPAP2 IN (7,9) THEN RFPAP32=9; ELSE IF LASTPAP2=. THEN RFPAP32=.; END: ELSE IF HADPAP2=2 THEN RFPAP32=2;

ELSE IF HADPAP2 IN (7,9) THEN RFPAP32=9; ELSE IF HADPAP2=. THEN RFPAP32=.;

END;

ELSE IF SEX=2 AND AGE IN (.,7,9) THEN RFPAP32=9;

ELSE RFPAP32=.;

END;

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#### **Section 15: 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.

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

Did not receive a Pap test within the past 3 years.

2

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 16: 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 SEX, AGE, PSATEST1, 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)

than 40 or Female

Missing or Age less 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=. THEN RFPSA21=.;
ELSE IF PSATEST1=2 THEN RFPSA21=2;
ELSE IF PSATEST1 IN (7,9) THEN RFPSA21=9;
ELSE IF PSATEST1=. THEN RFPSA21=.;
ELSE IF (SEX=1) AND AGE IN (.,7,9) THEN RFPSA21=9;
ELSE RFPSA21=.;
```

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\_RFBLDS2 Calculated variable for respondents aged 50+ who have had a blood stool test within the past two *years.* RFBLDS2 is derived from AGE, BLDSTOOL, and LSTBLDS3.

1	Yes	Respondents aged 50 and older who have had a blood stool test within the past two years. (AGE >=50 and BLDSTOOL=1 and LSTBLDS3=1,2)
2	No	Respondents aged 50 and older who have not received a blood stool test within the past two years. (AGE >=50 and BLDSTOOL=2 or BLDSTOOL=1 and LSTBLDS3=3,4)
9	Don't know/ Not Sure/ Refused	Respondents aged 50 and older with don't know, not sure or refused responses to BLDSTOOL or LSTBLDS3 or with don't know, not sure, refused or missing responses for AGE. (AGE >=50 and BLDSTOOL=7,9 or LSTBLDS3=7,9 or AGE=7,9,missing)

than 50

Missing or Age less Respondents aged 50 and older with missing responses for BLDSTOOL or LSTBLDS3, or respondents aged less than 50. (AGE >=50 and BLDSTOOL=missing or LSTBLDS3=missing or AGE<50)

SAS Code:

```
IF AGE>=50 THEN DO;
IF BLDSTOOL=1 THEN DO;
IF LSTBLDS3 IN (1,2) THEN _RFBLDS2=1;
ELSE IF LSTBLDS3 IN (3,4,5) THEN RFBLDS2=2;
ELSE IF LSTBLDS3 IN (7,9) THEN RFBLDS2=9;
ELSE IF LSTBLDS3=. THEN RFBLDS2=.;
END;
ELSE IF BLDSTOOL=2 THEN RFBLDS2=2;
ELSE IF BLDSTOOL IN (7,9) THEN RFBLDS2=9;
ELSE IF BLDSTOOL=. THEN RFBLDS2=.;
ELSE IF AGE IN (.,7,9) THEN RFBLDS2=9;
ELSE RFBLDS2=.;
```

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\_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 Hve 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 Respondents aged 50 -75 with don't know, refused or missing responses for than 50, Age greater than 75 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)

```
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;</pre>
```

#### **Section 17: Colorectal Cancer Screening**

\_RFSIGM2 Calculated variable for respondents aged 50 or older who have had a sigmoidoscopy or colonoscopy. \_RFSIGM2 is derived from AGE and HADSIGM3.

1 Yes Respondents aged 50 and older who have had a sigmoidoscopy or colonoscopy.

(AGE >= 50 and HADSIGM3=1)

2 No Respondents aged 50 and older who have never had a sigmoidoscopy or

colonoscopy. (AGE >=50 and HADSIGM3=2)

9 Don't know/ Not Respondents aged 50 and older with don't know, not sure or refused responses to Sure/ Refused HADSIGM or with don't know, not sure, refused or missing responses to AGE.

(AGE >=50 and HADSIGM3=7,9 or AGE=7,9,missing)

Missing or Age less Respondents aged 50 and older with missing responses for HADSIGM3, or than 50 respondents aged less than 50. (AGE >= 50 and HADSIGM3=missing or AGE < 50)

```
IF AGE>=50 THEN DO;
IF HADSIGM3=1 THEN _RFSIGM2=1;
ELSE IF HADSIGM3=2 THEN _RFSIGM2=2;
ELSE IF HADSIGM3 IN (7,9) THEN _RFSIGM2=9;
ELSE IF HADSIGM3=. THEN _RFSIGM2=.;
END;
ELSE IF AGE IN (.,7,9) THEN _RFSIGM2=9;
ELSE RFSIGM2=.;
```

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\_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.

Received a Respondents aged 50-75 who have had a colonoscopy in the past 10 years (50<= colonoscopy within the past 10 years and HADSIGM3=1 and HADSIGCO1=2 and LASTSIG3=1,2,3,4,5)

Did not receive a Respondents aged 50-75 who he colonoscopy within the past 10 years

Respondents aged 50-75 who he 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 Age less than 50 or Age greater than 75

Respondents aged 50-75 with missing responses for HADSIGM3 or LASTSIG3, 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)

SAS Code: 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)

IF HADSGCO1=2 AND LASTSIG3 IN (1,2,3,4,5) THEN \_COL10YR=1; ELSE IF LASTSIG3=6 THEN \_COL10YR=2;

END; END;

#### **Section 17: 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.

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;
```

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Calculated variable for respondents aged 50-75 who have had a sigmoidoscopy within the past 5 \_FS5YR years. FS5YR is derived from AGE, HADSIGM3, HADSGCO1 and LASTSIG3.

- 1 Received a Respondents aged 50-75 who have had a sigmoidoscopy 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

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

HADSGCO1=missing or AGE<50 or AGE>75)

IF 50 <= AGE <= 75 THEN DO; **SAS Code:** 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;

#### **Section 17: 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.

stool test within

2 Respondents aged 50–75 who have not received a sigmoidoscopy within the past Did not receive a 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) not receive a blood

than 50 or Age greater than 75

Missing or Age 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)

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

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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 that 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 or more of the recommended CRC tests within the recommended time

Did not receive one Respondents age 50-75 that 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)

than 50 or Age greater than 75

interval

Missing or Age less 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;

#### **Section 18: HIV/AIDS**

\_AIDTST3 Calculated variable for adults who have ever been tested for hiv. \_AIDTST3 is derived from HIVTST6.

Yes Respondents who reported to having been tested for HIV. (HIVTST6=1) 1

2 No Respondents who did not report having been tested for HIV. (HIVTST6=2)

9 Don't know/ Not 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) Sure/Refused

Not asked or missing Respondents with missing responses for HIVTST6. (HIVTST6=missing)

IF HIVTST6=1 THEN AIDTST3=1; **SAS Code:** ELSE IF HIVTST6=2 THEN \_AIDTST3=2; ELSE IF HIVTST6 IN (7,9) THEN AIDTST3=9; ELSE IF HIVTST6=. THEN AIDTST $\overline{3}$ =.;

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