

**Calculated Variables
in the
2020 Data File
of the
Behavioral Risk Factor Surveillance System**

(Version #7 - Revised: July 6, 2021)



Introduction

This document provides information on calculated variables for the 2020 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.

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

New Calculated Variables For 2020	
_CLNSCPY	was added in 2020.
_CRCREC1	was added in 2020.
_MAM5023	was added in 2020.
_RACEPRV	was added in 2020.
_RFB LDS4	was added in 2020.
_RFMAM22	was added in 2020.
_RFPAP35	was added in 2020.
_RFPSA23	was added in 2020.
_SBONTIM	was added in 2020.
_SGMS10Y	was added in 2020.
_SGMSCPY	was added in 2020.
_STOLDNA	was added in 2020.
_VIRCOLN	was added in 2020.

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 1: Health Status		
_RFHLTH Calculated variable for adults with good or better health. _RFHLTH is derived from GENHLTH.		
1	Good or Better Health	Respondents 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:	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		
_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 days when physical health not good	Respondents who reported no days when their physical health was not good (PHYSHLTH=88)
2	1-13 days when physical health not good	Respondents who reported 1-13 days when their physical health was not good (1 <= PHYSHLTH <= 13)
3	14+ days when physical health not good	Respondents who reported 14 or more days when their physical health was not good (14 <= PHYSHLTH <=30)
9	Don't know/ Refused/ Missing	Respondents who reported they didn't know, refused or had missing values for PHYSHLTH (PHYSHLTH=77,99, or missing)
	SAS Code:	IF PHYSHLTH IN (77, 99, .) THEN _PHYS14D=9; ELSE IF PHYSHLTH=88 THEN _PHYS14D=1; ELSE IF 1 LE PHYSHLTH LE 13 THEN _PHYS14D=2; ELSE _PHYS14D=3;

Section 2: Healthy Days		
_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;

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 3: Health Care Access		
_HCVU651 <i>Calculated variable for respondents aged 18-64 who have any form of health care coverage. _HCVU651 is derived from AGE and HLTHPLN1.</i>		
1	Have health care coverage	Respondents who reported having health care coverage (18 <= AGE <= 64 and HLTHPLN1 = 1)
2	Do not have health care coverage	Respondents who reported not having health care coverage (18 <= AGE <= 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>

Section 4: Exercise		
_TOTINDA <i>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.</i>		
1	Had physical activity or exercise	Respondents who reported doing any physical activity or exercise. (EXERANY2=1)
2	No physical activity or exercise in last 30 days	Respondents who reported doing no physical activity or exercise. (EXERANY2=2)
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:	<pre>IF EXERANY2 IN (1) THEN _TOTINDA=1; ELSE IF EXERANY2 IN (2) THEN _TOTINDA=2; ELSE IF EXERANY2 IN (., 7, 9) THEN _TOTINDA=9;</pre>

Section 5: Inadequate Sleep
There are no calculated variables for Section 5.

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 6: Chronic Health Conditions		
_MICHHD <i>Calculated variable for respondents that have ever reported having coronary heart disease (CHD) or myocardial infarction (MI). _MICHHD is derived from CVDINFR4 and CVDCRHD4.</i>		
1	Reported having MI or CHD	Respondents who reported having had MI or CHD (CVDINFR4=1 OR CVDCRHD4=1)
2	Did not report having MI or CHD	Respondents who reported not having had MI and CHD (CVDINFR4=2 AND 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 _MICHHD=1; ELSE IF CVDINFR4=2 AND CVDCRHD4=2 THEN _MICHHD=2;

Section 6: Chronic Health Conditions		
_LTASTH1 <i>Calculated variable for adults who have ever been told they have asthma. _LTASTH1 is derived from ASTHMA3.</i>		
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)
	SAS Code:	IF ASTHMA3=1 THEN _LTASTH1=2; ELSE IF ASTHMA3=2 THEN _LTASTH1=1; ELSE _LTASTH1=9;

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 6: Chronic Health Conditions		
_CASTHM1 <i>Calculated variable for adults who have been told they currently have asthma.</i> _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)
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:	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;

Section 6: Chronic Health Conditions		
_ASTHMS1 <i>Calculated variable for computed asthma status.</i> _ASTHMS1 is derived from ASTHMA3 and ASTHNOW.		
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=1 and 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:	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;

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 6: Chronic Health Conditions		
_DRDXAR2 Calculated variable for respondents who have had a doctor diagnose them as having some form of arthritis. _DRDXAR2 is derived from HAVARTH4.		
1	Diagnosed with arthritis	Respondents who have been told by a doctor they had arthritis (HAVARTH4=1)
2	Not diagnosed with arthritis	Respondents who have not been told by a doctor they had arthritis (HAVARTH4=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 (HAVARTH4=7,9, or missing)
	SAS Code:	<pre>IF HAVARTH4 = 1 THEN _DRDXAR2=1; ELSE IF HAVARTH4 = 2 THEN _DRDXAR2=2; ELSE IF HAVARTH4 IN (7,9,.) THEN _DRDXAR2=.;</pre>

Section 7: Oral Health		
_EXTETH3 Calculated variable for adults aged 18+ who have had permanent teeth extracted. _EXTETH3 is derived from RMVTETH4.		
1	Not at risk	Respondents who reported having had no permanent teeth removed. (RMVTETH4=8)
2	At risk	Respondents who reported having had permanent teeth removed. (RMVTETH4=1 or 2 or 3)
9	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. (RMVTETH4=7, 9, missing)
	SAS Code:	<pre>IF RMVTETH4 IN (1,2,3) THEN _EXTETH3=2; ELSE IF RMVTETH4=8 THEN _EXTETH3=1; ELSE _EXTETH3=9;</pre>

Section 7: Oral Health		
_ALTETH3 Calculated variable for adults aged 65+ who have had all their natural teeth extracted. _ALTETH3 is derived from AGE and RMVTETH4.		
1	No	Respondents aged 65 or more who reported having none or some natural teeth removed. (AGE > 64 and RMVTETH4=1, 2, 8)
2	Yes	Respondents aged 65 or more who reported having all natural teeth removed. (AGE > 64 and RMVTETH4=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 RMVTETH4=7, 9, missing)
.	Missing or Age Less Than 65	Respondents aged 18–64. (18 <= AGE <= 64)
	SAS Code:	<pre>IF AGE >= 65 THEN DO; IF RMVTETH4 IN (1,2,8) THEN _ALTETH3=1; ELSE IF RMVTETH4=3 THEN _ALTETH3=2; ELSE IF RMVTETH4 IN (.,7,9) THEN _ALTETH3=9; END; ELSE IF AGE IN (.,7,9) THEN _ALTETH3=9; ELSE _ALTETH3=.;</pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 7: Oral Health		
_DENVST3 Calculated variable for adults who have visited a dentist, dental hygienist or dental clinic within the past year. _DENVST3 is derived from LASTDEN4.		
1	Yes	Respondents who reported having had dental visit in the past year. (LASTDEN4=1)
2	No	Respondents who reported having not had dental visit in the past year. (LASTDEN4=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. (LASTDEN4=7,9 or missing)
	SAS Code:	<pre>IF LASTDEN4=1 THEN _DENVST3=1; ELSE IF LASTDEN4 IN (2,3,4,8) THEN _DENVST3=2; ELSE IF LASTDEN4 IN (.,7,9) THEN _DENVST3=9;</pre>

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 or 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 - 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)))) > 2 THEN DO; MRACORG77=PUT(LEFT(COMPRESS(TRANWRD(MRACE1,"77","")),28.)); MRACORG88=PUT(LEFT(COMPRESS(TRANWRD(MRACORG77,"88","")),28.)); MRACORG99=PUT(LEFT(COMPRESS(TRANWRD(MRACORG88,"99","")),28.)); MRACORG1=PUT(LEFT(COMPRESS(TRANWRD(MRACORG99,"80","")),28.)); END; ELSE DO; MRACORG1=MRACE1; END;</pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
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 - 1.02E9	Race code(s)	Respondents reported race or races in ascending order (MRACE1=10, 20, 30, 40, 50, 60, or MRACORG1 > 99)
77	Don't know/ Not sure	Respondents who reported they didn't know, or weren't sure of their race. (MRACORG1=77)
99	Refused	Respondents who refused to give their race. (MRACORG1=99)
	SAS Code:	<pre> IF (LEFT(COMPRESS(LENGTH(MRACORG1)))) > 2 THEN DO; array pairs[14]; length MRAC_SORTED \$28; counter = .; do pos = 1 to length(MRACORG1) by 2; counter + 1; pairs[counter] = input(substr(MRACORG1, pos, 2), 2.); end; do i = 1 to counter; MRAC_SORTED = cats(MRAC_SORTED, smallest(i, of pairs[*])); 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; %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_ONE40, "4040", "40XX"))), 28.); MRAC_ONE40= PUT(LEFT(COMPRESS(TRANWRD(MRAC_4040, "XX", ""))), 28.); END; MRACASC1=INPUT(MRAC_ONE40, 28.0); END; ELSE DO; MRACASC1=INPUT(MRACORG1, 28.0); END; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_PRACE1 <i>Calculated variable for preferred race category. _PRACE1 is derived from MRACASC1 and ORACE3. If MRACEASC1 has only one response, then _PRACE1=MRACASC1. If MRACASC1 has more than one response, then _PRACE1=ORACE3.</i>		
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=20 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:	<pre> 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 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; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_MRACE1 <i>Calculated variable for calculated multiracial race categorization. _MRACE1 is derived from MRACASC1. If respondents reported more than one race they are assigned to the multiracial category. If MRACASC1 is less than 40 or equal to 60 then _MRACE1=MRACASC1. If MRACASC1 is 40-47 then _MRACE1=40. If MRACASC1 is 50-54 then _MRACE1=50.</i>		
1	White only	Respondents who reported they are white. (MRACASC1=10)
2	Black or African American only	Respondents who report they are black. (MRACASC1=20)
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=40,41,42,43,44,45,46,47)
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:	<pre> IF MRACASC1 GT 99 THEN _MRACE1 = 7; ELSE IF MRACASC1 EQ 99 THEN _MRACE1 = 99; ELSE IF MRACASC1 EQ 77 THEN _MRACE1 = 77; ELSE IF MRACASC1 EQ 10 THEN _MRACE1 = 1; ELSE IF MRACASC1 EQ 20 THEN _MRACE1 = 2; ELSE IF MRACASC1 EQ 30 THEN _MRACE1 = 3; ELSE IF 40 LE MRACASC1 LE 47 THEN _MRACE1 = 4; ELSE IF 50 LE MRACASC1 LE 54 THEN _MRACE1 = 5; ELSE IF MRACASC1=60 THEN _MRACE1=6; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_M_RACE <i>Calculated variable for calculated multiracial race categorization. _M_RACE is derived from MRACASC1. If respondents reported more than one race, they are assigned to the multiracial category. Otherwise _M_RACE=MRACASC1.</i>		
10	White	Respondents who reported being white (MRACASC1=10)
20	Black or African American	Respondents who reported being black or African American (MRACASC1=20)
30	American Indian or Alaska Native	Respondents who reported being American Indian or Alaska Native (MRACASC1=30)
40	Asian	Respondents who reported being Asian (MRACASC1=40)
41	Asian Indian	Respondents who reported being Asian Indian (MRACASC1=41)
42	Chinese	Respondents who reported being Chinese (MRACASC1=42)
43	Filipino	Respondents who reported being Filipino (MRACASC1=43)
44	Japanese	Respondents who reported being Japanese (MRACASC1=44)
45	Korean	Respondents who reported being Korean (MRACASC1=45)
46	Vietnamese	Respondents who reported being Vietnamese (MRACASC1=46)
47	Other Asian	Respondents who reported being Other Asian (MRACASC1=47)
50	Pacific Islander	Respondents who reported being Pacific Islander (MRACASC1=50)
51	Native Hawaiian	Respondents who reported being Native Hawaiian (MRACASC1=51)
52	Guamanian or 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:	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;

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_HISPANC Calculated variable for Hispanic, Latino/a, or Spanish origin calculated variable.		
_HISPANC is derived from HISPANC3		
1	Hispanic, Latino/a, or Spanish origin	Respondents who reported being of Hispanic, Latino/a, or Spanish origin (HISPANC3=1,2,3,4 or HISPANC3 > 9)
2	Not of Hispanic, Latino/a, or Spanish origin	Respondents who reported they were not of Hispanic, Latino/a, or Spanish origin (HISPANC3=5)
9	Don't Know, Refused or Missing	Respondents who refused to report if they were of Hispanic, Latino/a, or Spanish 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:	<pre> 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; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_RACE	Calculated variable for race ethnicity categories. _RACE 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-Hispanic	Respondents who reported they are white and not of Hispanic origin. (_MRACE1=1 and _HISPANC=2)
2	Black only, non-Hispanic	Respondents who reported they are black and not of Hispanic origin. (_MRACE1=2 and _HISPANC=2)
3	American Indian or Alaskan Native only, Non-Hispanic	Respondents who reported they are American Indian or Alaska Native and not of Hispanic origin. (_MRACE1=3 and _HISPANC=2)
4	Asian only, non-Hispanic	Respondents who reported they are Asian and not of Hispanic origin. (_MRACE1=4 and _HISPANC=2)
5	Native Hawaiian or other Pacific Islander only, Non-Hispanic	Respondents who reported they are Native Hawaiian or Pacific Islander and not of Hispanic origin. (_MRACE1=5 and _HISPANC=2)
6	Other race only, non-Hispanic	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)
7	Multiracial, non-Hispanic	Respondents who reported they are of more than one race group and are not of Hispanic origin. (_MRACE1=7 and _HISPANC=2)
8	Hispanic	Respondents who reported they are of Hispanic origin. (_HISPANC=1)
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. (_MRACE1 =77, 99 and _HISPANC=2 or _HISPANC=7, 9)
	SAS Code:	<pre> IF _HISPANC=9 OR (_MRACE1 IN(77,99) AND HISPANC3 EQ 2) THEN DO; _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 ; END; ELSE IF _HISPANC=1 THEN DO; _RACE = 8 ; END; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_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:	<pre>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;</pre>

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, Non-Hispanic	Respondents who reported being multiracial but not of Hispanic origin. (_RACE=7)
5	Hispanic	Respondents who reported they are of Hispanic origin. (_RACE=8)
9	Don't know/ Not sure/ Refused	Respondents who reported they did not know or refused to give their race and are not of Hispanic origin or did not know or refused to answer if they are of Hispanic origin. (_RACE=9)
	SAS Code:	<pre>IF _RACE=1 THEN _RACEGR3=1; ELSE IF _RACE=2 THEN _RACEGR3=2; ELSE IF 3 LE _RACE LE 6 THEN _RACEGR3=3; ELSE IF _RACE=7 THEN _RACEGR3=4; ELSE IF _RACE=8 THEN _RACEGR3=5; ELSE IF _RACE=9 THEN _RACEGR3=9;</pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_RACEPRV Calculated variable for computed race groups used for internet prevalence tables. _RACEPRV is derived from _RACE and _IMPRACE		
1	White only, non-Hispanic	Respondents who reported they are white and not of Hispanic origin or were imputed to be white and not of Hispanic origin. (_RACE=1 or _RACE=9 and _IMPRACE=1)
2	Black only, non-Hispanic	Respondents who reported they are black and not of Hispanic origin or were imputed to be black and not of Hispanic origin. (_RACE=2 or _RACE=9 and _IMPRACE=2)
3	American Indian or Alaskan Native only, Non-Hispanic	Respondents who reported they are American Indian or Alaska Native and not of Hispanic origin or were imputed to be American Indian or Alaska Native and not of Hispanic origin. (_RACE=3 or _RACE=9 and _IMPRACE=4)
4	Asian only, non-Hispanic	Respondents who reported they are Asian and not of Hispanic origin or were imputed to be Asian and not of Hispanic origin. (_RACE=4 or _RACE=9 and _IMPRACE=3)
5	Native Hawaiian or other Pacific Islander only, Non-Hispanic	Respondents who reported they are Native Hawaiian or Pacific Islander and not of Hispanic origin. (_RACE=5)
6	Other race only, non-Hispanic	Respondents who reported they are of some other race group not listed in the question responses and are not of Hispanic origin or were imputed to be some other race group and not of Hispanic origin. (_RACE=6 or _RACE=9 and _IMPRACE=6)
7	Multiracial, non-Hispanic	Respondents who reported they are of more than one race group and are not of Hispanic origin. (_RACE=7)
8	Hispanic	Respondents who reported they are of Hispanic origin or were imputed to be of Hispanic origin. (_RACE=8 or _RACE=9 and _IMPRACE==5)
	SAS Code:	<pre>IF _RACE < 9 THEN _RACEPRV=_RACE; IF _RACE=9 THEN DO; IF _IMPRACE IN (1, 2, 6) THEN _RACEPRV=_IMPRACE; ELSE IF _IMPRACE=3 THEN _RACEPRV=4; ELSE IF _IMPRACE=4 THEN _RACEPRV=3; ELSE IF _IMPRACE=5 THEN _RACEPRV=8; END;</pre>

Section 8: Demographics		
_SEX Calculated variable for calculated sex variable. _SEX is derived from BIRTHSEX and SEXVAR		
1	Male	Male respondent (BIRTHSEX=1 or BIRTHSEX notin (1,2) and SEXVAR=1)
2	Female	Female respondent (BIRTHSEX=2 or BIRTHSEX notin (1,2) and SEXVAR=2)
	SAS Code:	<pre>IF BIRTHSEX IN (1, 2) THEN DO; _SEX=BIRTHSEX; END; ELSE DO; _SEX=SEXVAR; END;</pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_AGEG5YR Calculated variable for fourteen-level age category. _AGEG5YR is derived from AGE.		
1	Age 18 to 24	Respondents with reported age between 18 and 24 years (18 <= AGE <= 24)
2	Age 25 to 29	Respondents with reported age between 25 and 29 years (25 <= AGE <= 29)
3	Age 30 to 34	Respondents with reported age between 30 and 34 years (30 <= AGE <= 34)
4	Age 35 to 39	Respondents with reported age between 35 and 39 years (35 <= AGE <= 39)
5	Age 40 to 44	Respondents with reported age between 40 and 44 years (40 <= AGE <= 44)
6	Age 45 to 49	Respondents with reported age between 45 and 49 years (45 <= AGE <= 49)
7	Age 50 to 54	Respondents with reported age between 50 and 54 years (50 <= AGE <= 54)
8	Age 55 to 59	Respondents with reported age between 55 and 59 years (55 <= AGE <= 59)
9	Age 60 to 64	Respondents with reported age between 60 and 64 years (60 <= AGE <= 64)
10	Age 65 to 69	Respondents with reported age between 65 and 69 years (65 <= AGE <= 69)
11	Age 70 to 74	Respondents with reported age between 70 and 74 years (70 <= AGE <= 74)
12	Age 75 to 79	Respondents with reported age between 75 and 79 years (75 <= AGE <= 79)
13	Age 80 or older	Respondents with reported age between 80 and 99 years (80 <= AGE <= 99)
14	Don't know/ Refused/ Missing	Respondents who reported they didn't know, were not sure, refused to report or had missing responses for their age. (AGE=7, 9, missing)
	SAS Code:	<pre> IF 18 LE AGE LE 24 THEN _AGEG5YR = 1; ELSE IF 25 LE AGE LE 29 THEN _AGEG5YR = 2; ELSE IF 30 LE AGE LE 34 THEN _AGEG5YR = 3; ELSE IF 35 LE AGE LE 39 THEN _AGEG5YR = 4; ELSE IF 40 LE AGE LE 44 THEN _AGEG5YR = 5; ELSE IF 45 LE AGE LE 49 THEN _AGEG5YR = 6; ELSE IF 50 LE AGE LE 54 THEN _AGEG5YR = 7; ELSE IF 55 LE AGE LE 59 THEN _AGEG5YR = 8; ELSE IF 60 LE AGE LE 64 THEN _AGEG5YR = 9; ELSE IF 65 LE AGE LE 69 THEN _AGEG5YR = 10; ELSE IF 70 LE AGE LE 74 THEN _AGEG5YR = 11; ELSE IF 75 LE AGE LE 79 THEN _AGEG5YR = 12; ELSE IF 80 LE AGE LE 99 THEN _AGEG5YR = 13; ELSE _AGEG5YR = 14; </pre>

Section 8: Demographics		
_AGE65YR Calculated variable for two-level age category. _AGE65YR is derived from AGE.		
1	Age 18 to 64	Respondents with reported ages 18–64. (18 <= AGE <=64)
2	Age 65 or older	Respondents with reported ages 65–99. (65 >= AGE >= 99)
3	Don't know/ Refused/ Missing	Respondents who reported they didn't know, were not sure, refused, or had a missing value for AGE. (AGE=7,9, or missing)
	SAS Code:	<pre> IF 18 LE AGE LE 64 THEN _AGE65YR=1; ELSE IF 65 LE AGE LE 99 THEN _AGE65YR=2; ELSE _AGE65YR = 3; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_AGE80	Calculated variable for imputed age value collapsed above 80. _AGE80 is derived from _IMPAGE.	
18 - 24	Imputed Age 18 to 24	Respondents with reported Imputed Age between 18 and 24 years (18 <= Imputed Age <= 24)
25 - 29	Imputed Age 25 to 29	Respondents with reported Imputed Age between 25 and 29 years (25 <= Imputed Age <= 29)
30 - 34	Imputed Age 30 to 34	Respondents with reported Imputed Age between 30 and 34 years (30 <= Imputed Age <= 34)
35 - 39	Imputed Age 35 to 39	Respondents with reported Imputed Age between 35 and 39 years (35 <= Imputed Age <= 39)
40 - 44	Imputed Age 40 to 44	Respondents with reported Imputed Age between 40 and 44 years (40 <= Imputed Age <= 44)
45 - 49	Imputed Age 45 to 49	Respondents with reported Imputed Age between 45 and 49 years (45 <= Imputed Age <= 49)
50 - 54	Imputed Age 50 to 54	Respondents with reported Imputed Age between 50 and 54 years (50 <= Imputed Age <= 54)
55 - 59	Imputed Age 55 to 59	Respondents with reported Imputed Age between 55 and 59 years (55 <= Imputed Age <= 59)
60 - 64	Imputed Age 60 to 64	Respondents with reported Imputed Age between 60 and 64 years (60 <= Imputed Age <= 64)
65 - 69	Imputed Age 65 to 69	Respondents with reported Imputed Age between 65 and 69 years (65 <= Imputed Age <= 69)
70 - 74	Imputed Age 70 to 74	Respondents with reported Imputed Age between 70 and 74 years (70 <= Imputed Age <= 74)
75 - 79	Imputed Age 75 to 79	Respondents with reported Imputed Age between 75 and 79 years (75 <= Imputed Age <= 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;

Section 8: Demographics		
_AGE_G	Calculated variable for six-level imputed age category. _AGE_G is derived from _IMPAGE (imputed age).	
1	Age 18 to 24	Respondents with imputed ages between 18–24 years of age. (18 <= _IMPAGE <= 24)
2	Age 25 to 34	Respondents with imputed ages between 25–34 years of age. (25 <= _IMPAGE <= 34)
3	Age 35 to 44	Respondents with imputed ages between 35–44 years of age. (35 <= _IMPAGE <= 44)
4	Age 45 to 54	Respondents with imputed ages between 45–54 years of age. (45 <= _IMPAGE <= 54)
5	Age 55 to 64	Respondents with imputed ages between 55–64 years of age. (55 <= _IMPAGE <= 64)
6	Age 65 or older	Respondents with imputed ages between 65–99 years of age. (_IMPAGE >= 65)
	SAS Code:	IF (18<=_IMPAGE<=24) THEN _AGE_G = 1; ELSE IF (25<=_IMPAGE<=34) THEN _AGE_G = 2; ELSE IF (35<=_IMPAGE<=44) THEN _AGE_G = 3; ELSE IF (45<=_IMPAGE<=54) THEN _AGE_G = 4; ELSE IF (55<=_IMPAGE<=64) THEN _AGE_G = 5; ELSE IF (_IMPAGE >= 65) THEN _AGE_G = 6;

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

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/ Refused/ Not asked or Missing	Respondents who reported they didn't know, were not sure, refused or had missing responses for their height.
	SAS Code:	<pre>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);</pre>

Section 8: Demographics		
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 implied decimal places]	Respondents reported or calculated height in meters. (HTM4=HTIN4 x 0.0254 or HTM4 = (HEIGHT3 - 9000) ÷ 100)
.	Don't know/ Refused/ Not asked or Missing	Respondents who reported they didn't know, were not sure, refused or had missing responses for their height.
	SAS Code:	<pre>IF 300 <= HEIGHT3 <= 711 THEN HTM4=HTIN4*0.0254; ELSE IF 9091 <= HEIGHT3 < 9244 THEN HTM4=(HEIGHT3-9000)/100;</pre>

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 - 29500	Weight in kilograms [2 implied decimal places]	Respondents reported or calculated weight in kilograms.
.	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:	<pre>** 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;</pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

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 HTM4².	
1 - 9999	1 or greater	Respondents calculated body mass index (BMI) {units=kilograms per meter squared}. ($_BMI5 = WTKG3 / (HTM4 \times HTM4)$)
.	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 $_BMI5 \geq 100$ or PREGNANT=1)
	SAS Code:	<pre>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=.;</pre>

Section 8: Demographics		
_BMI5CAT	Calculated variable for four-categories of body mass index (BMI). _BMI5CAT is derived from _BMI5.	
1	Underweight	Respondents classified as underweight based on body mass index. ($_BMI5 < 18.50$)
2	Normal Weight	Respondents classified as normal weight based on body mass index. ($18.50 \leq _BMI5 < 25.00$)
3	Overweight	Respondents classified as overweight based on body mass index. ($25.00 \leq _BMI5 < 30.00$)
4	Obese	Respondents classified as obese based on body mass index. ($30.00 \leq _BMI5 < 99.99$)
.	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 < 18.50) THEN _BMI5CAT=1; 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;</pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_RFBMI5 <i>Calculated variable for adults who have a body mass index greater than 25.00 (overweight or obese).</i> _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/ Refused/ Missing	Respondents with an unknown, refused, or missing value for body mass index. (_BMI5=missing)
	SAS Code:	<pre> 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>

Section 8: Demographics		
_CHLDCNT <i>Calculated variable for number of children in household.</i> _CHLDCNT is derived from CHILDREN.		
1	No children in household	Respondents who reported having no children. (CHILDREN=88)
2	One child in household	Respondents who reported having one child. (CHILDREN=1)
3	Two children in household	Respondents who reported having two children. (CHILDREN=2)
4	Three children in household	Respondents who reported having three children. (CHILDREN=3)
5	Four children in household	Respondents who reported having four children. (CHILDREN=4)
6	Five or more children in household	Respondents who reported having five or more children. (5 ≤ CHILDREN < 87)
9	Don't know/ Not sure/ Missing	Respondents who reported they didn't know, were not sure, refused or had a missing value for CHILDREN. (CHILDREN=99)
	SAS Code:	<pre> IF CHILDREN = 88 THEN _CHLDCNT = 1; ELSE IF CHILDREN = 01 THEN _CHLDCNT = 2; ELSE IF CHILDREN = 02 THEN _CHLDCNT = 3; ELSE IF CHILDREN = 03 THEN _CHLDCNT = 4; ELSE IF CHILDREN = 04 THEN _CHLDCNT = 5; ELSE IF 05 <= CHILDREN < 88 THEN _CHLDCNT = 6; ELSE IF CHILDREN = 99 THEN _CHLDCNT = 9; ELSE IF CHILDREN = . THEN _CHLDCNT = 9; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_EDUCAG <i>Calculated variable for level of education completed. _EDUCAG is derived from EDUCA.</i>		
1	Did not graduate High School	Respondents who reported they did not graduate high school. (EDUCA=1,2,3)
2	Graduated High School	Respondents who reported they graduated high school. (EDUCA=4)
3	Attended College or Technical School	Respondents who reported they attended college or technical school. (EDUCA=5)
4	Graduated from College or Technical School	Respondents who reported they graduated from college or technical school. (EDUCA=6)
9	Don't know/ Not sure/ Missing	Respondents who reported they didn't know, were not sure, refused, or had a missing value for EDUCA. (EDUCA=9, missing)
	SAS Code:	<pre>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;</pre>

Section 8: Demographics		
_INCOMG <i>Calculated variable for income categories. _INCOMG is derived from INCOME2.</i>		
1	Less than \$15,000	Respondents whose reported income is less than \$15,000. (INCOME2=1,2)
2	\$15,000 to less than \$25,000	Respondents whose reported income is \$15,000 to less than \$25,000. (INCOME2=3,4)
3	\$25,000 to less than \$35,000	Respondents whose reported income is \$25,000 to less than \$35,000. (INCOME2=5)
4	\$35,000 to less than \$50,000	Respondents whose reported income is \$35,000 to less than \$50,000. (INCOME2=6)
5	\$50,000 or more	Respondents whose reported income is \$50,000 or more. (INCOME2=7,8)
9	Don't know/ Not sure/ Missing	Respondents who refused to answer, didn't know or had a missing value for INCOME2. (INCOME2=77,99, or missing)
	SAS Code:	<pre>IF INCOME2 IN (1, 2) THEN _INCOMG = 1; ELSE IF INCOME2 IN (3, 4) THEN _INCOMG = 2; ELSE IF INCOME2 IN (5) THEN _INCOMG = 3; ELSE IF INCOME2 IN (6) THEN _INCOMG = 4; ELSE IF INCOME2 IN (7, 8) THEN _INCOMG = 5; ELSE IF INCOME2 IN (77, 99, .) THEN _INCOMG = 9;</pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 8: Demographics		
_METSTAT Calculated variable for metropolitan status. _METSTAT is derived from _URBNRRL .		
1	Metropolitan counties (_URBNRRL = 1,2,3,4)	_URBNRRL = 1,2,3,4 (_URBNRRL = 1,2,3,4)
2	Nonmetropolitan counties (_URBNRRL = 5,6)	_URBNRRL = 5,6 (_URBNRRL = 5,6)
.	Not defined or Missing	Not defined or Missing
	SAS Code:	<pre>IF _URBNRRL IN (1, 2, 3, 4) THEN _METSTAT=1; IF _URBNRRL IN (5, 6) THEN _METSTAT=2; IF _STATE=09 and _IMPCTY=005 THEN _METSTAT=1; IF _STATE=25 and _IMPCTY=019 THEN _METSTAT=2; IF _STATE=33 and _IMPCTY=003 THEN _METSTAT=2;</pre>

Section 8: Demographics		
_URBSTAT Calculated variable for urban rural status. _URBSTAT is derived from _URBNRRL .		
1	Urban counties (_URBNRRL = 1,2,3,4,5)	_URBNRRL = 1,2,3,4,5 (_URBNRRL = 1,2,3,4,5)
2	Rural counties (_URBNRRL = 6)	_URBNRRL = 6 (_URBNRRL = 6)
.	Not defined or Missing	Not defined or Missing
	SAS Code:	<pre>IF _URBNRRL IN (1, 2, 3, 4, 5) THEN _URBSTAT=1; IF _URBNRRL IN (6) THEN _URBSTAT=2; IF _STATE=09 and _IMPCTY=005 THEN _URBSTAT=1; IF _STATE=25 and _IMPCTY=019 THEN _URBSTAT=1; IF _STATE=33 and _IMPCTY=003 THEN _URBSTAT=1;</pre>

Section 9: Disability

There are no calculated variables for Section 9.

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 10: Tobacco Use		
_SMOKER3 Calculated variable for four-level smoker status: everyday smoker, someday smoker, former smoker, non-smoker. _SMOKER3 is derived from SMOKE100 and SMOKDAY2.		
1	Current smoker - now smokes every day	Respondents who reported having smoked at least 100 cigarettes in their lifetime and now smoke every day. (SMOKE100=1 and SMOKDAY2=1)
2	Current smoker - now smokes some days	Respondents who reported having smoked at least 100 cigarettes in their lifetime and now smoke some days. (SMOKE100=1 and SMOKDAY2=2)
3	Former smoker	Respondents who reported having smoked at least 100 cigarettes in their lifetime and currently do not smoke. (SMOKE100=1 and SMOKDAY2=3)
4	Never smoked	Respondents who reported they had not smoked at least 100 cigarettes in their lifetime. (SMOKE100=2)
9	Don't know/ 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:	<pre> IF SMOKE100=2 THEN _SMOKER3=4; ELSE IF SMOKE100=1 THEN DO; IF SMOKDAY2=1 THEN _SMOKER3=1; ELSE IF SMOKDAY2=2 THEN _SMOKER3=2; ELSE IF SMOKDAY2 = 3 THEN _SMOKER3=3; ELSE _SMOKER3=9; END; ELSE _SMOKER3=9; </pre>

Section 10: Tobacco Use		
_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 and currently smoke. (_SMOKER3=1, 2)
9	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:	<pre> IF _SMOKER3 IN (1, 2) THEN _RFSMOK3=2; ELSE IF _SMOKER3 IN (3, 4) THEN _RFSMOK3=1; ELSE _RFSMOK3=9; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 11: Alcohol Consumption		
DRNKANY5 <i>Calculated variable for adults who reported having had at least one drink of alcohol in the past 30 days.</i> DRNKANY5 is derived from ALCDAY5		
1	Yes	Respondents who reported drinking at least one alcoholic beverage in the past 30 days. (1 <= ALCDAY5 <= 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:	IF 1 <= ALCDAY5 < 231 THEN DRNKANY5=1; ELSE IF ALCDAY5=888 THEN DRNKANY5=2; ELSE IF ALCDAY5=777 THEN DRNKANY5=7; ELSE DRNKANY5=9;

Section 11: Alcohol Consumption		
DROCDY3_ <i>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.</i>		
0	No Drink-Occasions per day	Respondents reported no occasions per day that they consumed alcohol. (ALCDAY5=888)
1 - 899	Drink-Occasions per day	Respondents reported number of occasions per day that they consumed alcohol. (ALCDAY5 not equal to 777, 888, 999, or missing)
900	Don't know/ Not Sure Or Refused/ Missing	Respondents who reported they did not know how many days they had at least one drink of alcohol, those who refused to answer how many days they had at least one drink of alcohol, those with missing responses. (ALCDAY5=777, 999, or missing)
	SAS Code:	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;

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 11: Alcohol Consumption		
_RFBING5 <i>Calculated variable for binge drinkers (males having five or more drinks on one occasion, females having four or more drinks on one occasion). _RFBING5 is derived from DRNK3GE5 and ALCDAY5.</i>		
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 11: Alcohol Consumption		
_DRNKWK1 <i>Calculated variable for calculated total number of alcoholic beverages consumed per week. _DRNKWK1 is derived from DROCDY3_ and AVEDRNK3 by multiplying the total number of drink occasions per day (DROCDY3_) by the average number of drinks per occasion (AVEDRNK3) times seven days.</i>		
0	Did not drink	Respondents who did not drink in the past month. (DROCDY3_=0 or AVEDRNK3=88)
1 - 98999	Number of drinks per week	Respondents reported number of alcoholic drinks in the past week. (0 < DROCDY3_ < 990)
99900	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. (AVEDRNK3=., 77, 99 or DROCDY3_=900)
	SAS Code:	<pre>IF DROCDY3_=0 THEN _DRNKWK1=0; ELSE IF DROCDY3_=9 THEN _DRNKWK1=999; ELSE IF AVEDRNK3 IN (., 77, 99) THEN _DRNKWK1=999; ELSE IF AVEDRNK3=88 THEN _DRNKWK1=0; ELSE _DRNKWK1=AVEDRNK3*DROCDY3_*7; * _DRNKWK1=ROUND((_DRNKWK1*100),1); *This is done after all of the alcohol calculations but the code is included here;</pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 11: Alcohol Consumption		
_RFDRHV7 Calculated variable for heavy drinkers (adult men having more than 14 drinks per week and adult women having more than 7 drinks per week). _RFDRHV7 is derived from _DRNKWK1, ALCDAY5, and SEXVAR.		
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. ((SEXVAR=1 or BIRTHSEX=1) and _DRNKWK1 <= 1400 or (SEXVAR=2 or BIRTHSEX=2) and _DRNKWK1 <= 700 or ALCDAY5=888)
2	Yes	Male Respondents who reported having more than 14 drinks per week, or Female Respondents who reported having more than 7 drinks per week. ((SEXVAR=1 or BIRTHSEX=1) and _DRNKWK1 > 1400 or (SEXVAR=2 or BIRTHSEX=2) and _DRNKWK1 > 700)
9	Don't know/ Refused/ Missing	Respondents with don't know, refused or missing responses for ALCDAY5 or _DRNKWK1. (ALCDAY5=777, 999, or missing, or _DRNKWK1=99, or missing)
	SAS Code:	<pre> IF (SEXVAR=1 or BIRTHSEX=1) AND _DRNKWK1 NOTIN (999,.) THEN DO; IF _DRNKWK1 GT 14 THEN _RFDRHV7=2; ELSE IF _DRNKWK1 LE 14 THEN _RFDRHV7=1; END; ELSE IF (SEXVAR=2 or BIRTHSEX=2) AND _DRNKWK1 NOTIN (999,.) THEN DO; IF _DRNKWK1 GT 7 THEN _RFDRHV7=2; ELSE IF _DRNKWK1 LE 7 THEN _RFDRHV7=1; END; ELSE IF ALCDAY5 EQ 888 THEN _RFDRHV7=1; ELSE _RFDRHV7=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); _DRNKWK1=ROUND((_DRNKWK1*100),1); </pre>

Calculated Variables in the 2020 Behavioral Risk Factor Surveillance System Data File (continued)

Section 12: Immunization		
_FLSHOT7 Calculated variable for adults aged 65+ who have had a flu shot within the past year. _FLSHOT7 is derived from FLUSHOT7.		
1	Yes	Respondents aged 65 or older who reported having a flu shot within the past 12 months. (AGE >= 65 and FLUSHOT7=1)
2	No	Respondents aged 65 or older who reported not having had a flu shot within the past 12 months. (AGE >= 65 and FLUSHOT7=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 FLUSHOT7=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 FLUSHOT7=1 THEN _FLSHOT7=1; ELSE IF FLUSHOT7=2 THEN _FLSHOT7=2; ELSE IF FLUSHOT7 IN (.,7,9) THEN _FLSHOT7=9; END; ELSE IF AGE IN (.,7,9) THEN _FLSHOT7=9; ELSE _FLSHOT7=.;</pre>

Section 12: Immunization		
_PNEUMO3 Calculated variable for adults aged 65+ who have ever had a pneumonia vaccination. _PNEUMO3 is derived from PNEUVAC4.		
1	Yes	Respondents aged 65 or older who reported having a pneumonia shot. (AGE >= 65 and PNEUVAC4=1)
2	No	Respondents aged 65 or older who reported not having had a pneumonia shot. (AGE >= 65 and PNEUVAC4=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 PNEUVAC4=1 THEN _PNEUMO3=1; ELSE IF PNEUVAC4=2 THEN _PNEUMO3=2; ELSE IF PNEUVAC4 IN (.,7,9) THEN _PNEUMO3=9; ELSE _PNEUMO3=.; END; ELSE IF AGE IN (.,7,9) THEN _PNEUMO3=9; ELSE _PNEUMO3=.;</pre>

Section 13: Falls

There are no calculated variables for Section 13.

Calculated Variables in the 2020 Behavioral Risk Factor Surveillance System Data File (continued)

Section 14: Seatbelt Use and Drinking and Driving		
<i>_RFSEAT2 Calculated variable for always or nearly always wear seat belts calculated variable.</i>		
<i>_RFSEAT2 is derived from SEATBELT.</i>		
1	Always or Almost Always Wear Seat Belt	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)
2	Sometimes, Seldom, or Never Wear Seat Belt	Respondents who reported they sometimes, seldom, or never use a seatbelt when they ride or drive in a car. (SEATBELT=3,4,5)
9	Don't know/ Not Sure Or Refused/ Missing	Respondents who reported they don't know, are not sure, refused or with missing responses for if they use a seatbelt when they ride or drive in a car. (SEATBELT=7,9 or missing)
	SAS Code:	IF SEATBELT IN (1, 2, 8) THEN _RFSEAT2=1; ELSE IF SEATBELT IN (3, 4, 5) THEN _RFSEAT2=2; ELSE _RFSEAT2=9;

Section 14: Seatbelt Use and Drinking and Driving		
<i>_RFSEAT3 Calculated variable for always wear seat belts calculated variable.</i>		
<i>_RFSEAT3 is derived from SEATBELT.</i>		
1	Always Wear Seat Belt	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)
2	Don't Always Wear Seat Belt	Respondents who reported they nearly always, sometimes, seldom, or never use a seatbelt when they ride or drive in a car. (SEATBELT=2,3,4,5)
9	Don't know/ Not Sure Or Refused/ 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: Seatbelt Use and Drinking and Driving		
<i>_DRNKDRV Calculated variable for drinking and driving. _DRNKDRV is derived from DRNKDRI2.</i>		
1	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)
2	Have not driven after having too much to drink	Respondents who have not reported having driven after drinking too much (DRNKDRI2=88)
9	Don't know/ Not Sure/ Refused/ Missing	Respondents with don't know, refused, or missing responses for DRNKDRI2. (DRNKDRI2 =77,99 or missing)
	SAS Code:	IF DRNKDRI2 IN (., 77, 99) THEN _DRNKDRV=9; ELSE IF DRNKDRI2=88 THEN _DRNKDRV=2; ELSE _DRNKDRV=1;

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 15: Breast and Cervical Cancer Screening		
_RFMAM22 Calculated variable for women respondents aged 40+ who have had a mammogram in the past two years. _RFMAM22 is derived from BIRTHSEX, SEXVAR, AGE, HADMAM, and HOWLONG.		
1	Yes	Female respondents aged 40 and older who have received a mammogram within the past two years. ((BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=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. ((BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=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. ((BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) and HADMAM=7,9, missing or HOWLONG=7,9, missing or AGE=7,9, missing)
.	Missing or Age less than 40 or Male	Female respondents less than 40 years old, or male respondents. ((BIRTHSEX=1 or (BIRTHSEX notin (1,2) and SEXVAR=1)) or (BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) and AGE < 40)
	SAS Code:	<pre> IF (BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) AND AGE GE 40 THEN DO; IF HADMAM=1 THEN DO; IF HOWLONG IN (1,2) THEN _RFMAM22=1; ELSE IF HOWLONG IN (3,4,5) THEN _RFMAM22=2; ELSE IF HOWLONG IN (7,9,.) THEN _RFMAM22=9; END; ELSE IF HADMAM=2 THEN _RFMAM22=2; ELSE IF HADMAM IN (7,9,.) THEN _RFMAM22=9; END; ELSE IF SEX1=2 AND AGE IN (.,7,9) THEN _RFMAM22=9; ELSE _RFMAM22=.; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 15: Breast and Cervical Cancer Screening		
_MAM5023 Calculated variable for women respondents aged 50-74 who have had a mammogram in the past two years. _MAM5023 is derived from BIRTHSEX, SEXVAR, AGE, HADMAM, and HOWLONG.		
1	Received a mammogram within the past 2 years.	Female respondents aged 50-74 who have received a mammogram within the past two years. ((BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) and 50 <= AGE <= 74 and HADMAM=1 and HOWLONG=1,2)
2	Did not receive a mammogram within the past 2 years.	Female respondents aged 50-74 who have not received a mammogram within the past two years. ((BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=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. ((BIRTHSEX=1 or (BIRTHSEX notin (1,2) and SEXVAR=1) or (BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) and AGE < 50 or SEX1=2 and AGE > 74)
	SAS Code:	<pre>IF (BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) AND 50 LE AGE LE 74 THEN DO; IF HADMAM=2 THEN _MAM5023=2; ELSE IF HADMAM=1 THEN DO; IF HOWLONG IN (1,2) THEN _MAM5023=1; ELSE IF HOWLONG IN (3,4,5) THEN _MAM5023=2; END; END;</pre>

Section 15: Breast and Cervical Cancer Screening		
_RFPAP35 Calculated variable for women respondents aged 21-65 who have had a Pap test in the past three years. _RFPAP35 is derived from the variables BIRTHSEX, SEXVAR, AGE, HADHYST2, HADPAP2, and LASTPAP2.		
1	Received a Pap test within the past 3 years.	Female respondents aged 21-65, with intact cervix, who have received a Pap test within the past three years. ((BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) and 21 <= AGE <= 65 and HADHYST2 NE 1 and HADPAP2=1 and LASTPAP2=1,2,3)
2	Did not receive a Pap test within the past 3 years.	Female respondents aged 21-65, with intact cervix, who have not received a Pap test within the past three years. ((BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=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. ((BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) and AGE < 21 or AGE > 65 or (BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) and 21 <= AGE <= 65 and HADHYST2=1 AND HADPAP2=missing or LASTPAP2=missing or (BIRTHSEX=1 or (BIRTHSEX notin (1,2) and SEXVAR=1)))
	SAS Code:	<pre>IF (BIRTHSEX=2 or (BIRTHSEX notin (1,2) and SEXVAR=2)) AND HADHYST2=2 AND 21 LE AGE LE 65 THEN DO; IF HADPAP2=2 THEN _RFPAP35=2; ELSE IF HADPAP2=1 THEN DO; IF LASTPAP2 IN (1,2,3) THEN _RFPAP35=1; ELSE IF LASTPAP2 IN (4,5) THEN _RFPAP35=2; END; END;</pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 16: Prostate Cancer Screening		
_RFPSA23 Calculated variable for male respondents aged 40+ who have had a PSA test in the past 2 years. _RFPSA23 is derived from SEXVAR, BIRTHSEX, AGE, PSATEST1, and PSATIME.		
1	Yes	Male respondents aged 40 and older who have had a PSA test within the past two years. ((BIRTHSEX=1 or (BIRTHSEX notin (1,2) and SEXVAR=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. ((BIRTHSEX=1 or (BIRTHSEX notin (1,2) and SEXVAR=1)) and AGE >= 40 and PSATEST1=2 or PSATEST1=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 PSATEST1 or PSATIME or male respondents with don't know, not sure, refused or missing responses to AGE. ((BIRTHSEX=1 or (BIRTHSEX notin (1,2) and SEXVAR=1)) and AGE >= 40 and PSATEST1=7,9 or PSATIME=7,9 or SEX1=1 and AGE=7,9, missing)
.	Missing or Age less than 40 or Female	Male respondents aged 40 and older with missing responses for PSATEST1 or PSATIME, Male respondents aged less than 40, or female respondents. ((BIRTHSEX=1 or (BIRTHSEX notin (1,2) and SEXVAR=1)) and AGE >=40 and PSATEST1=missing or PSATIME=missing or SEX1=1 and AGE < 40 or SEX1=2)
	SAS Code:	<pre> IF (BIRTHSEX=1 or (BIRTHSEX NOTIN (1,2) AND SEXVAR=1)) AND (AGE GE 40) THEN DO; IF PSATEST1=1 THEN DO; IF PSATIME IN (1,2) THEN _RFPSA23=1; ELSE IF PSATIME IN (3,4,5) THEN _RFPSA23=2; ELSE IF PSATIME IN (7,9) THEN _RFPSA23=9; ELSE IF PSATIME=. THEN _RFPSA23=.; END; ELSE IF PSATEST1=2 THEN _RFPSA23=2; ELSE IF PSATEST1 IN (7,9) THEN _RFPSA23=9; ELSE IF PSATEST1=. THEN _RFPSA23=.; END; ELSE IF (BIRTHSEX=1 or (BIRTHSEX NOTIN (1,2) and SEXVAR=1)) AND AGE IN (.,7,9) THEN _RFPSA23=9; ELSE _RFPSA23=.; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 17: Colorectal Cancer Screening		
_CLNSCPY Calculated variable for respondents aged 50-75 who have had a colonoscopy within the past ten years. _CLNSCPY is derived from AGE, COLNSCPY, and COLNTEST.		
1	Had a colonoscopy in the past ten years	Respondents aged 50-75 who have had a colonoscopy within the past ten years. (50<= AGE <=75 and COLNSCPY=1 and COLNTEST=1,2,3,4)
2	Had a colonoscopy ten or more years ago	Respondents aged 50-75 who have had a colonoscopy ten or more years ago. (50<= AGE <=75 and COLNSCPY=1 and COLNTEST=5)
3	Have never had a colonoscopy	Respondents aged 50-75 who have never had a colonoscopy. (50<= AGE <=75 and COLNSCPY=2)
.	Missing, Age less than 50, Age greater than 75	Respondents aged 50 -75 with don't know, refused or missing responses for COLNSCPY or COLNTEST, or respondents aged less than 50, or respondents aged greater than 75. (50<= AGE <=75 and COLNSCPY=missing or COLNTEST=missing or AGE<50 or AGE>75)
	SAS Code:	<pre> IF 50 <= AGE <= 75 THEN DO; IF COLNSCPY=2 THEN _CLNSCPY=3; ELSE IF COLNSCPY=1 THEN DO; IF COLNTEST IN (1,2,3,4) THEN _CLNSCPY=1; ELSE IF COLNTEST=5 THEN _CLNSCPY=2; END; END; </pre>

Section 17: Colorectal Cancer Screening		
_SGMSCPY Calculated variable for respondents aged 50-75 who have had a sigmoidoscopy within the past five years. _SGMSCPY is derived from AGE, SIGMSCPY, and SIGMTEST.		
1	Have had a sigmoidoscopy in the past 5 years	Respondents aged 50-75 who have had a sigmoidoscopy within the past 5 years. (50<= AGE <=75 and SIGMSCPY=1 and SIGMTEST=1,2,3)
2	Have had a sigmoidoscopy 5 or more years ago	Respondents aged 50-75 who have had a sigmoidoscopy 5 or more years ago. (50<= AGE <=75 and SIGMSCPY=1 and SIGMTEST=4,5)
3	Have never had a sigmoidoscopy	Respondents aged 50-75 who have never had a sigmoidoscopy. (50<= AGE <=75 and SIGMSCPY=2)
.	Missing, Age less than 50, Age greater than 75	Respondents aged 50 -75 with don't know, refused or missing responses for SIGMSCPY or SIGMTEST, or respondents aged less than 50, or respondents aged greater than 75. (50<= AGE <=75 and SIGMSCPY=missing or SIGMTEST=missing or AGE<50 or AGE>75)
	SAS Code:	<pre> IF 50 <= AGE <= 75 THEN DO; IF SIGMSCPY=2 THEN _SGMSCPY=3; ELSE IF SIGMSCPY=1 THEN DO; IF SIGMTEST IN (1,2,3) THEN _SGMSCPY=1; ELSE IF SIGMTEST IN (4,5) THEN _SGMSCPY=2; END; END; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 17: Colorectal Cancer Screening		
_SGMS10Y Calculated variable for respondents aged 50-75 who have had a sigmoidoscopy within the past ten years. _SGMSCPY is derived from AGE, SIGMSCPY, and SIGMTEST.		
1	Have had a sigmoidoscopy in the past 10 years	Respondents aged 50-75 who have had a sigmoidoscopy within the past 10 years. (50<= AGE <=75 and SIGMSCPY=1 and SIGMTEST=1,2,3,4)
2	Have had a sigmoidoscopy 10 or more years ago	Respondents aged 50-75 who have had a sigmoidoscopy 10 or more years ago. (50<= AGE <=75 and SIGMSCPY=1 and SIGMTEST=5)
3	Have never had a sigmoidoscopy	Respondents aged 50-75 who have never had a sigmoidoscopy. (50<= AGE <=75 and SIGMSCPY=2)
.	Missing, Age less than 50, Age greater than 75	Respondents aged 50 -75 with don't know, refused or missing responses for SIGMSCPY or SIGMTEST, or respondents aged less than 50, or respondents aged greater than 75. (50<= AGE <=75 and SIGMSCPY=7,9 or missing or SIGMTEST=7,9 or missing or AGE<50 or AGE>75)
	SAS Code:	<pre> IF 50 <= AGE <= 75 THEN DO; IF SIGMSCPY=2 THEN _SGMS10Y=3; ELSE IF SIGMSCPY=1 THEN DO; IF SIGMTEST IN (1,2,3,4) THEN _SGMS10Y=1; ELSE IF SIGMTEST=5 THEN _SGMS10Y=2; END; END; </pre>

Section 17: Colorectal Cancer Screening		
_RFB LDS4 Calculated variable for respondents aged 50-75 who have had a blood stool test within the past year. _RFB LDS4 is derived from AGE, BLDSTOL1, and LSTB LDS4.		
1	Had a blood stool test in the past year	Respondents aged 50-75 who have had a blood stool test within the past year. (50<= AGE <=75 and BLDSTOL1=1 and LSTB LDS4=1)
2	Have had a blood stool test one or more years ago	Respondents aged 50-75 who have had a blood stool test one or more years ago. (50<= AGE <=75 and BLDSTOL1=1 and LSTB LDS4=2,3,4,5)
3	Have never had a blood stool test	Respondents aged 50-75 who have never had a blood stool test. (50<= AGE <=75 and BLDSTOL1=2)
.	Missing, Age less than 50, Age greater than 75	Respondents aged 50 -75 with don't know, refused or missing responses for BLDSTOL1 or LSTB LDS4, or respondents aged less than 50, or respondents aged greater than 75. (50<= AGE <=75 and BLDSTOL1=missing or LSTB LDS4=missing or AGE<50 or AGE>75)
	SAS Code:	<pre> IF 50 <= AGE <= 75 THEN DO; IF BLDSTOL1=2 THEN _RFB LDS4=3; ELSE IF BLDSTOL1=1 THEN DO; IF LSTB LDS4=1 THEN _RFB LDS4=1; ELSE IF LSTB LDS4 IN (2,3,4,5) THEN _RFB LDS4=2; END; END; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 17: Colorectal Cancer Screening		
_STOLDNA Calculated variable for respondents aged 50-75 who have had a stool DNA test within the past three years. _STOLDNA is derived from AGE, STOOLDNA, and SDNATEST.		
1	Had a stool DNA test in the past 3 years	Respondents aged 50-75 who have had a stool DNA test within the past 3 years. (50<= AGE <=75 and STOOLDNA=1 and SDNATEST=1,2,3)
2	Have had a stool DNA test 3 or more years ago	Respondents aged 50-75 who have had a stool DNA test 3 or more years ago. (50<= AGE <=75 and STOOLDNA=1 and SDNATEST=4,5)
3	Have never had a stool DNA test	Respondents aged 50-75 who have never had a stool DNA test. (50<= AGE <=75 and STOOLDNA=2)
.	Missing, Age less than 50, Age greater than 75	Respondents aged 50 -75 with don't know, refused or missing responses for STOOLDNA or SDNATEST, or respondents aged less than 50, or respondents aged greater than 75. (50<= AGE <=75 and STOOLDNA=missing or SDNATEST=missing or AGE<50 or AGE>75)
	SAS Code:	<pre> IF 50 <= AGE <= 75 THEN DO; IF STOOLDNA=2 THEN _STOLDNA=3; ELSE IF STOOLDNA=1 THEN DO; IF SDNATEST in (1,2,3) THEN _STOLDNA=1; ELSE IF SDNATEST IN (4,5) THEN _STOLDNA=2; END; END; </pre>

Section 17: Colorectal Cancer Screening		
_VIRCOLN Calculated variable for respondents aged 50-75 who have had a virtual colonoscopy within the past five years. _VIRCOLN is derived from AGE, VIRCOLON, and VCLNTEST.		
1	Had a virtual colonoscopy in the past 5 years	Respondents aged 50-75 who have had a virtual colonoscopy within the past 5 years. (50<= AGE <=75 and VIRCOLON=1 and VCLNTEST=1,2,3,4)
2	Have not had a virtual colonoscopy in the past 5 or more years	Respondents aged 50-75 who have not had a virtual colonoscopy within the past 5 or more years. (50<= AGE <=75 and VIRCOLON=1 and VCLNTEST=5)
3	Have never had a virtual colonoscopy	Respondents aged 50-75 who have never had a virtual colonoscopy. (50<= AGE <=75 and VIRCOLON=2)
.	Missing, Age less than 50, Age greater than 75	Respondents aged 50 -75 with don't know, refused or missing responses for VIRCOLON or VCLNTEST, or respondents aged less than 50, or respondents aged greater than 75. (50<= AGE <=75 and VIRCOLON=missing or VCLNTEST=missing or AGE<50 or AGE>75)
	SAS Code:	<pre> IF 50 <= AGE <= 75 THEN DO; IF VIRCOLON=2 THEN _VIRCOLN=3; ELSE IF VIRCOLON=1 THEN DO; IF VCLNTEST IN (1,2,3,4) THEN _VIRCOLN=1; ELSE IF VCLNTEST=5 THEN _VIRCOLN=2; END; END; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 17: Colorectal Cancer Screening		
_SBONTIM <i>Calculated variable for respondents aged 50-75 who have had a sigmoidoscopy within the past ten years and a blood stool test in the past year. _SBONTIM is derived from AGE, _SGMS10Y and _RFB LDS4.</i>		
1	Both on time	Respondents aged 50-75 who have had a sigmoidoscopy within the past ten years and a blood stool test in the past year. (50<= AGE <=75 and _SGMS10Y=1 and _RFB LDS4=1)
2	At least one not on time	Respondents aged 50-75 who have not a sigmoidoscopy within the past ten years or have not had a blood stool test in the past year. (50<= AGE <=75 and _SGMS10Y _ 1 or _RFB LDS4 _ 1)
3	Never had either	Respondents aged 50-75 who have never had a sigmoidoscopy or a blood stool test. (50<= AGE <=75 and _SGMS10Y=3 and _RFB LDS4=3)
.	Missing, Age less than 50, Age greater than 75	Respondents aged 50 -75 with missing responses for _SGMS10Y or _RFB LDS4, or respondents aged less than 50, or respondents aged greater than 75. (50<= AGE <=75 and _SGMS10Y=missing or _RFB LDS4=missing or AGE<50 or AGE>75)
	SAS Code:	<pre> IF 50 <= AGE <= 75 THEN DO; IF _SGMS10Y=1 AND _RFB LDS4=1 THEN _SBONTIM=1; ELSE IF _SGMS10Y=3 AND _RFB LDS4=3 THEN _SBONTIM=3; ELSE _SBONTIM=2; END; </pre>

Calculated Variables in the 2020 Data File of the Behavioral Risk Factor Surveillance System

Section 17: Colorectal Cancer Screening		
<i>_CRCREC1 Calculated variable for respondents aged 50-75 who have fully met the USPSTF recommendations. _CRCREC1 is derived from AGE, _RFBLDS4, _SGMSCPY, _CLNSCPY, _STOLDNA, _VIRCOLN and _SBONTIM</i>		
1	Had at least one of the recommended CRC tests within the recommended time interval	Respondents age 50-75 that did have at least one of the recommended CRC tests within the recommended time interval (50 <= AGE <= 75 and _RFBLDS4=1 or _SGMSCPY=1 or _CLNSCPY=1 or _STOLDNA=1 or _VIRCOLN=1 or _SBONTIM=1)
2	Did not have any of the recommended CRC tests within the recommended time interval	Respondents age 50-75 that did not have any of the recommended CRC tests within the recommended time interval (50 <= AGE <= 75 and _RFBLDS4=2,3 and _SGMSCPY=2,3 and _CLNSCPY=2,3 and _STOLDNA=2,3 and _VIRCOLN=2 and _SBONTIM=2)
3	Have never had any of the recommended CRC tests	Respondents age 50-75 that never had any of the recommended CRC tests (50 <= AGE <= 75 and _RFBLDS4=3 and _SGMSCPY=3 and _CLNSCPY =3 and _STOLDNA=3 and _VIRCOLN=2 and _SBONTIM=2)
.	Missing, Age less than 50, Age greater than 75	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 _RFBLDS4=missing or _SGMSCPY=missing or _CLNSCPY=missing or _STOLDNA=missing or _VIRCOLN=missing or _SBONTIM=missing or AGE < 50 or AGE > 75)
	SAS Code:	<pre>IF 50 <= AGE <= 75 THEN DO; IF _RFBLDS4=1 OR _SGMSCPY=1 OR _CLNSCPY=1 OR _STOLDNA=1 OR _VIRCOLN=1 OR _SBONTIM=1 THEN _CRCREC1=1; ELSE IF _RFBLDS4=3 AND _SGMSCPY=3 AND _CLNSCPY =3 AND _STOLDNA=3 AND _VIRCOLN=3 AND _SBONTIM=3 THEN _CRCREC1=3; ELSE IF _RFBLDS4 NE . AND _SGMSCPY NE . AND _CLNSCPY NE . AND _STOLDNA NE . AND _VIRCOLN NE . AND _SBONTIM NE . THEN DO; _CRCREC1=2; END; END;</pre>

Section 18: HIV/AIDS		
<i>_AIDTST4 Calculated variable for adults who have ever been tested for HIV. _AIDTST4 is derived from HIVTST7.</i>		
1	Yes	Respondents who reported to having been tested for HIV. (HIVTST7=1)
2	No	Respondents who did not report having been tested for HIV. (HIVTST7=2)
9	Don't know/Not Sure/Refused	Respondents who reported they did not know if they had been tested for HIV or those who refused to answer if they had been tested for HIV. (HIVTST7=7,9)
.	Not asked or missing	Respondents with missing responses for HIVTST7. (HIVTST7=missing)
	SAS Code:	<pre>IF HIVTST7=1 THEN _AIDTST4=1; ELSE IF HIVTST7=2 THEN _AIDTST4=2; ELSE IF HIVTST7 IN (7,9) THEN _AIDTST4=9; ELSE IF HIVTST7=. THEN _AIDTST4=.;</pre>