Prevalence Estimates for Risk Factors and Health Indicators

State of Michigan

Selected Tables

Michigan Behavioral Risk Factor Survey

2020

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Bureau of Epidemiology and Population Health
Michigan Department of Health and Human Services

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September 2021

Introduction

The Michigan Behavioral Risk Factor Survey (MiBRFS) is an annual, statewide telephone survey of Michigan adults aged 18 years and older that is conducted through a collaborative effort among the Population Health Surveillance Branch (PHSB) of the Centers for Disease Control and Prevention (CDC), the Michigan State University Institute for Public Policy and Social Research (IPPSR), and the Michigan Department of Health and Human Services. Michigan BRFS data contribute to the national [Behavioral Risk Factor Surveillance System](#) that is managed by the PHSB at the CDC.

In 2020, the total sample size of completed interviews for the core survey was 7,269 (land line = 2,205; cell phone = 5,064). Due to variability in response rates to individual questions and differences in specific sub-populations of interest for particular questions, not all estimates are based on a total sample size of 7,269. As a result, item-by-item sample sizes and population descriptions are included within each table. Furthermore, only comparisons between estimates with non-overlapping 95% confidence intervals should be considered significantly different.

For the 2020 Michigan BRFS, the sample of land line telephone numbers that were utilized for data collection was selected using a list-assisted, random-digit-dialed methodology with a disproportionate stratification based on phone bank density, and whether or not the phone numbers were directory listed. The sample of cell phone numbers used within the 2020 Michigan BRFS data collection process was randomly selected from dedicated cellular telephone banks sorted on the basis of area code and exchange within the State of Michigan.

Iterative proportional fitting or raking was the weighting methodology used to make the 2020 Michigan BRFS data representative of the current Michigan adult population. Estimates based on this methodology were weighted to adjust for the probabilities of selection and a raking adjustment factor that adjusted for the distribution of Michigan adults by telephone source (land line vs. cell phone), detailed race/ethnicity, education level, marital status, age by gender, gender by race/ethnicity, age by race/ethnicity, and renter/owner status.

State-specific, population-based prevalence estimates and asymmetric confidence intervals were calculated for indicators of health status, health risk behaviors, clinical preventive practices, and chronic conditions among the adult population in Michigan. Respondents who refused to answer a question were removed from the denominator during the analysis of such questions. Those who responded "Don't Know/Not Sure" were also excluded from the denominator unless indicated otherwise. All analyses were performed in SAS-Callable SUDAAN®, a statistical computing program that was designed for complex sample surveys.

In an effort to provide the most reliable information possible, prevalence estimates are suppressed if they are based on a denominator of less than 50 respondents or have a relative standard error of greater than 30%.

Due to the BRFSS methodology changes that took place in 2011, the estimates provided within the following tables should only be compared to Michigan BRFSS estimates from 2011-2016 and not to Michigan BRFSS estimates from years prior to 2011.

If you have any questions regarding any of the estimates within the following tables, please contact Yan Tian at tiany@michigan.gov.

Table 1: Health Status 2020 Michigan BRFS		
	General Health, Fair or Poor[a]	
	%	**95% Confidence Interval**
Total	**15.5**	**(14.4-16.7)**
Age		
18 – 24	6.8	(4.7-9.7)
25 – 34	10.1	(7.9-12.8)
35 – 44	12.6	(9.9-15.8)
45 – 54	18.7	(15.4-22.5)
55 – 64	19.4	(16.8-22.3)
65 – 74	20.9	(18.1-24.0)
75 +	21.7	(18.6-25.2)
Gender		
Male	13.3	(11.8-14.9)
Female	17.7	(16.1-19.4)
Race/Ethnicity		
White non-Hispanic	14.5	(13.3-15.8)
Black non-Hispanic	21.9	(18.4-26.0)
Other non-Hispanic	13.7	(9.6-19.1)
Hispanic	16.9	(11.5-24.0)
Education		
Less than high school	34.7	(28.4-41.5)
High school graduate	18.0	(16.0-20.2)
Some college	14.1	(12.5-15.9)
College graduate	7.8	(6.7-9.0)
Household Income		
< $20,000	33.8	(29.5-38.5)
$20,000 - $34,999	20.2	(17.2-23.6)
$35,000 - $49,999	14.6	(11.9-17.8)
$50,000 - $74,999	13.2	(10.8-16.1)
$75,000 +	5.3	(4.2-6.5)
[a] Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 7,259)		

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 2: Health Status on at Least 14 Days in the Past Month
2020 Michigan BRFS

	Poor Physical Health[a]		Poor Mental Health[b]		Activity Limitation[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**11.3**	**(10.4-12.4)**	**15.8**	**(14.7-17.0)**	**9.1**	**(8.3-10.1)**
Age						
18 – 24	3.0	(1.9-4.9)	21.0	(17.2-25.3)	6.6	(4.5-9.5)
25 – 34	7.5	(5.4-10.2)	20.8	(17.4-24.7)	7.1	(5.2-9.5)
35 – 44	9.7	(7.4-12.6)	18.7	(15.6-22.2)	9.0	(6.9-11.8)
45 – 54	14.6	(11.5-18.4)	15.8	(13.1-19.0)	9.5	(7.3-12.4)
55 – 64	16.7	(14.2-19.4)	12.1	(10.1-14.5)	12.6	(10.4-15.1)
65 – 74	14.0	(11.7-16.6)	12.2	(10.1-14.7)	10.2	(8.3-12.6)
75 +	13.0	(10.6-15.8)	8.4	(6.6-10.7)	7.8	(6.0-10.0)
Gender	11.3	(10.4-12.4)	15.8	(14.7-17.0)	9.1	(8.3-10.1)
Male	10.1	(8.7-11.6)	11.4	(10.0-12.9)	7.3	(6.2-8.6)
Female	12.5	(11.2-14.0)	20.0	(18.3-21.7)	10.9	(9.7-12.3)
Race/Ethnicity	11.4	(10.4-12.4)	15.9	(14.7-17.1)	9.1	(8.3-10.1)
White non-Hispanic	11.3	(10.3-12.5)	15.8	(14.5-17.1)	8.5	(7.6-9.5)
Black non-Hispanic	12.1	(9.2-15.9)	16.4	(13.0-20.4)	10.7	(8.1-14.0)
Other non-Hispanic	11.9	(8.1-17.0)	16.5	(12.0-22.4)	14.1	(9.8-20.1)
Hispanic	9.1	(5.2-15.3)	14.9	(10.0-21.6)	8.7	(5.0-14.7)
Education	11.3	(10.4-12.4)	15.8	(14.7-17.0)	9.2	(8.3-10.1)
Less than high school	23.4	(17.8-30.1)	21.8	(16.7-27.9)	18.3	(13.8-24.0)
High school graduate	12.6	(10.9-14.5)	17.3	(15.1-19.7)	9.7	(8.2-11.5)
Some college	10.8	(9.4-12.4)	16.7	(14.8-18.8)	9.8	(8.4-11.4)
College graduate	6.3	(5.3-7.4)	10.8	(9.5-12.3)	4.4	(3.6-5.4)
Household Income	10.8	(9.8-11.9)	15.2	(14.0-16.5)	8.8	(7.8-9.8)
< $20,000	25.5	(21.5-30.1)	29.3	(24.9-34.0)	22.3	(18.5-26.7)
$20,000 - $34,999	14.2	(11.7-17.2)	17.4	(14.4-20.8)	11.7	(9.3-14.7)
$35,000 - $49,999	9.9	(7.7-12.6)	14.0	(11.0-17.7)	7.3	(5.4-9.8)
$50,000 - $74,999	8.3	(6.4-10.7)	13.3	(10.9-16.1)	7.9	(6.0-10.3)
$75,000 +	4.9	(4.0-6.1)	10.2	(8.7-12.0)	3.1	(2.3-4.1)

[a] Among all adults, the proportion who reported 14 or more days of poor physical health, which includes physical illness and injury, during the past 30 days. (N =7,149)
[b] Among all adults, the proportion who reported 14 or more days of poor mental health, which includes stress, depression, and problems with emotions, during the past 30 days. (N =7,161)
[c] Among all adults, the proportion who reported 14 or more days in the past 30 days in which either poor physical health or poor mental health kept respondents from doing their usual activities, such as self-care, work, and recreation. (N =7,199)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

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Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations
2020 Michigan BRFS

	Poor Physical Health[a]		Poor Mental Health[b]		Activity Limitation[c]	
	Mean # of Days	95% Confidence Interval	Mean # of Days	95% Confidence Interval	Mean # of Days	95% Confidence Interval
Total	**3.5**	**(3.2-3.7)**	**5.0**	**(4.7-5.3)**	**2.9**	**(2.7-3.1)**
Age						
18 - 24	1.5	(1.1-1.9)	6.9	(6.0-7.8)	2.8	(2.3-3.4)
25 - 34	2.2	(1.7-2.7)	6.5	(5.7-7.3)	2.4	(2.0-2.9)
35 - 44	3.1	(2.4-3.8)	5.7	(4.9-6.5)	2.7	(2.1-3.4)
45 - 54	4.4	(3.5-5.3)	5.3	(4.6-6.1)	3.1	(2.5-3.7)
55 - 64	4.8	(4.1-5.5)	4	(3.4-4.5)	3.7	(3.1-4.2)
65 - 74	4.4	(3.7-5.0)	3.8	(3.2-4.3)	3.1	(2.6-3.7)
75 +	3.9	(3.2-4.6)	2.5	(2.0-3.0)	2.3	(1.7-2.8)
Gender						
Male	3.1	(2.7-3.5)	3.7	(3.4-4.1)	2.3	(2.0-2.6)
Female	3.8	(3.5-4.2)	6.2	(5.8-6.6)	3.5	(3.2-3.8)
Race/Ethnicity						
White non-Hispanic	3.5	(3.2-3.8)	4.9	(4.6-5.3)	2.7	(2.5-3.0)
Black non-Hispanic	3.7	(3.0-4.5)	5.1	(4.3-6.0)	3.3	(2.7-4.0)
Other non-Hispanic	3.4	(2.4-4.5)	5.5	(4.2-6.9)	4.4	(3.1-5.7)
Hispanic	2.8	(1.5-4.1)	5.8	(4.3-7.3)	3.1	(2.0-4.3)
Education						
Less than high school	6.6	(5.0-8.2)	6.7	(5.2-8.1)	5.2	(3.9-6.4)
High school graduate	3.8	(3.3-4.2)	5.2	(4.6-5.7)	3	(2.6-3.4)
Some college	3.3	(3.0-3.7)	5.4	(4.9-5.9)	3.2	(2.9-3.6)
College graduate	2.2	(1.9-2.5)	3.8	(3.5-4.1)	1.7	(1.5-1.9)
Household Income						
< $20,000	7.1	(6.0-8.1)	8.5	(7.3-9.6)	6.4	(5.5-7.4)
$20,000 - $34,999	4.1	(3.5-4.8)	5.6	(4.8-6.4)	3.6	(3.0-4.3)
$35,000 - $49,999	3.1	(2.5-3.8)	4.5	(3.8-5.2)	2.5	(2.0-3.1)
$50,000 - $74,999	2.7	(2.2-3.2)	4.3	(3.7-4.8)	2.5	(2.0-3.0)
$75,000 +	1.8	(1.5-2.0)	3.7	(3.3-4.1)	1.4	(1.2-1.6)

[a] Among all adults, the mean number of days during the past 30 days in which physical health, including illness and injury, was not good. (N = 7,149)
[b] Among all adults, the mean number of days during the past 30 days in which mental health, including stress, depression, and problems with emotions, was not good. (N = 7,161)
[c] Among all adults, the mean number of days during the past 30 days in which poor physical health or poor mental health kept the respondent from doing usual activities, such as self-care, work, or recreation. (N = 7,199)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 4: Disability 2020 Michigan BRFS		
	Total Disability[a]	
	%	**95% Confidence Interval**
Total	**27.5**	**(26.2-28.9)**
Age		
18 - 24	20.4	(16.7-24.7)
25 - 34	19.7	(16.3-23.7)
35 - 44	21.5	(18.1-25.3)
45 - 54	26.6	(22.8-30.9)
55 - 64	27.2	(24.2-30.3)
65 - 74	35.3	(32.0-38.7)
75 +	51.1	(47.2-55.1)
Gender		
Male	25.3	(23.3-27.4)
Female	29.7	(27.8-31.6)
Race/Ethnicity		
White non-Hispanic	26.7	(25.2-28.2)
Black non-Hispanic	33.0	(28.5-37.8)
Other non-Hispanic	26.4	(20.7-33.1)
Hispanic	27.7	(20.6-36.1)
Education		
Less than high school	53.6	(46.3-60.7)
High school graduate	34.2	(31.5-37.0)
Some college	25.1	(23.0-27.3)
College graduate	14.0	(12.6-15.5)
Household Income		
< $20,000	54.3	(49.5-59.1)
$20,000 - $34,999	36.2	(32.3-40.2)
$35,000 - $49,999	27.6	(23.7-31.8)
$50,000 - $74,999	18.9	(16.1-22.1)
$75,000 +	11.3	(9.8-12.9)

[a] Among all adults, the proportion who reported having serious difficulty hearing, visual impairment, difficulty concentrating, remembering, or making decisions, difficulty walking or climbing stairs, difficulty dressing or bating, or difficulty doing errands alone. (N = 7,036)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 5: Weight Status
2020 Michigan BRFS

	Obese[a]		Overweight[b]		Healthy Weight[c]		Underweight[d]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**35.2**	**(33.7-36.7)**	**34.6**	**(33.1-36.1)**	**28.4**	**(27.0-29.8)**	**1.8**	**(1.4-2.4)**
Age								
18 - 24	19.1	(15.0-23.9)	26.3	(21.9-31.3)	48.8	(43.6-54.1)	5.8	(3.6-9.3)
25 - 34	33.2	(29.2-37.4)	34.7	(30.5-39.1)	30.8	(27.0-34.9)	--[e]	--[e]
35 - 44	40.2	(36.0-44.5)	34.1	(30.0-38.4)	24.5	(21.0-28.3)	--[e]	--[e]
45 - 54	43.5	(39.5-47.5)	33.7	(30.0-37.6)	21.3	(18.0-25.0)	--[e]	--[e]
55 - 64	37.3	(34.1-40.6)	37.9	(34.6-41.2)	23.9	(21.1-26.9)	--[e]	--[e]
65 - 74	40.3	(37.0-43.6)	35.9	(32.8-39.2)	22.9	(20.1-25.8)	1.0	(0.5-1.8)
75 +	28.8	(25.3-32.5)	38.5	(34.6-42.5)	31.0	(27.6-34.7)		
Gender								
Male	33.4	(31.4-35.5)	40.0	(37.8-42.2)	25.5	(23.5-27.6)	1.1	(0.6-1.9)
Female	37.1	(35.0-39.2)	29.0	(27.1-31.0)	31.3	(29.4-33.3)	2.6	(1.8-3.6)
Race/Ethnicity								
White non-Hispanic	34.2	(32.7-35.9)	34.7	(33.1-36.4)	29.1	(27.6-30.7)	1.9	(1.4-2.6)
Black non-Hispanic	42.7	(38.0-47.7)	35.3	(30.6-40.4)	20.8	(17.0-25.1)	--[e]	--[e]
Other non-Hispanic	22.6	(17.4-28.7)	35.1	(28.6-42.2)	39.0	(32.4-46.0)	--[e]	--[e]
Hispanic	46.7	(37.6-56.0)	29.6	(22.3-38.2)	22.9	(16.6-30.7)	--[e]	--[e]
Education								
< High school	37.7	(31.2-44.8)	30.8	(24.3-38.2)	28.7	(22.6-35.6)	--[e]	--[e]
High school graduate	36.6	(33.9-39.5)	35.1	(32.3-38.0)	25.4	(22.9-28.1)	2.8	(1.8-4.4)
Some college	36.6	(34.0-39.2)	33.6	(31.1-36.1)	28.4	(26.1-30.9)	1.4	(0.9-2.2)
College graduate	31.0	(28.9-33.1)	36.7	(34.5-39.0)	31.4	(29.3-33.6)	0.9	(0.6-1.5)
Household Income								
< $20,000	38.2	(33.7-43.0)	30.1	(25.6-35.0)	29.2	(25.0-33.8)	2.5	(1.4-4.3)
$20,000 - $34,999	40.6	(36.7-44.6)	32.7	(29.0-36.8)	24.7	(21.4-28.3)	2.0	(1.1-3.5)
$35,000 - $49,999	41.2	(36.6-45.9)	29.8	(26.1-33.9)	27.3	(23.5-31.5)	--[e]	--[e]
$50,000 - $74,999	37.1	(33.4-40.9)	38.0	(34.3-41.8)	23.9	(20.8-27.4)	--[e]	--[e]
$75,000 +	31.4	(29.0-33.9)	37.8	(35.2-40.5)	29.3	(26.9-31.8)	1.5	(0.9-2.7)

Note: BMI, body mass index, is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)^2]. Weight and height were self-reported. Pregnant women were excluded. (N =6,757)
[a] Among all adults, the proportion of respondents whose BMI was greater than or equal to 30.0.
[b] Among all adults, the proportion of respondents whose BMI was greater than or equal to 25.0, but less than 30.0.
[c] Among all adults, the proportion of respondents whose BMI was greater than or equal to 18.5, but less than 25.0.
[d] Among all adults, the proportion of respondents whose BMI was less than 18.5.
[e] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 6: Health Care Coverage 2020 Michigan BRFS		
	No Health Care Coverage[a] (Among 18 - 64 year olds)	
	%	95% Confidence Interval
Total	**8.4**	**(7.3-9.6)**
Age		
18 - 24	9.3	(6.9-12.4)
25 - 34	11.3	(8.5-14.7)
35 - 44	7.7	(5.6-10.4)
45 - 54	7.2	(5.2-10.0)
55 - 64	6.6	(5.1-8.5)
Gender		
Male	10.5	(8.8-12.4)
Female	6.3	(5.2-7.7)
Race/Ethnicity		
White non-Hispanic	7.4	(6.2-8.7)
Black non-Hispanic	9.7	(6.9-13.5)
Other non-Hispanic	8.8	(5.7-13.5)
Hispanic	14.4	(9.3-21.6)
Education		
Less than high school	11.2	(6.4-19.0)
High school graduate	11.4	(9.3-13.9)
Some college	8.0	(6.5-9.9)
College graduate	4.5	(3.6-5.7)
Household Income		
< $20,000	10.2	(7.2-14.3)
$20,000 - $34,999	13.9	(10.7-18.0)
$35,000 - $49,999	12.3	(9.2-16.4)
$50,000 - $74,999	7.8	(5.7-10.7)
$75,000 +	2.8	(2.0-3.9)

[a] Among adults aged 18-64 years, the proportion who reported having no health care coverage, including health insurance, prepaid plans such as HMOs, or government plans, such as Medicare or Indian Health Services. (N = 4,449)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 7: Health Care Access
2020 Michigan BRFS

	No Personal Health Care Provider[a]		No Health Care Access During Past 12 Months Due to Cost[b]	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**14.5**	**(13.3-15.7)**	**7.9**	**(7.1-8.8)**
Age				
18 - 24	23.9	(19.8-28.4)	10.5	(7.9-13.9)
25 - 34	29.8	(25.8-34.0)	12.0	(9.5-15.1)
35 - 44	18.7	(15.4-22.4)	8.9	(6.9-11.5)
45 - 54	11.2	(9.1-13.9)	7.6	(5.8-10.0)
55 - 64	6.9	(5.4-8.9)	7.3	(5.8-9.3)
65 - 74	3.9	(2.8-5.4)	4.3	(3.1-6.0)
75 +	3.5	(2.1-5.6)	2.9	(1.8-4.5)
Gender	14.5	(13.3-15.7)	7.9	(7.1-8.8)
Male	20.1	(18.2-22.1)	7.3	(6.1-8.6)
Female	9.1	(8.0-10.4)	8.6	(7.5-9.8)
Race/Ethnicity	14.3	(13.2-15.6)	7.9	(7.1-8.8)
White non-Hispanic	13.2	(11.9-14.5)	7.1	(6.2-8.1)
Black non-Hispanic	14.2	(10.9-18.2)	9.0	(6.9-11.8)
Other non-Hispanic	23.2	(17.8-29.7)	11.7	(8.5-16.0)
Hispanic	23.9	(17.3-32.0)	13.4	(8.7-20.1)
Education	14.5	(13.3-15.7)	7.9	(7.1-8.8)
Less than high school	22.9	(17.0-30.0)	11.1	(7.3-16.5)
High school graduate	16.4	(14.3-18.8)	7.5	(6.2-9.1)
Some college	13.0	(11.3-14.9)	9.4	(8.0-11.0)
College graduate	11.3	(9.9-12.9)	5.3	(4.4-6.4)
Household Income	14.1	(12.9-15.4)	8.1	(7.2-9.1)
< $20,000	19.9	(16.1-24.3)	14.3	(11.2-17.9)
$20,000 - $34,999	17.1	(14.1-20.5)	13.9	(11.3-17.0)
$35,000 - $49,999	14.7	(11.7-18.3)	8.1	(6.0-10.8)
$50,000 - $74,999	11.3	(8.9-14.1)	7.5	(5.7-9.9)
$75,000 +	11.5	(9.7-13.5)	2.9	(2.0-4.1)

[a] Among all adults, the proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider. (N = 7,225)
[b] Among all adults, the proportion who reported that in the past 12 months, they could not see a doctor when they needed to due to the cost. (N = 7,255)

Table 8: No Leisure Time Physical Activity
2020 Michigan BRFS

	No Leisure Time Physical Activity[a]	
	%	**95% Confidence Interval**
Total	**20.8**	**(19.6-22.1)**
Age		
18 – 24	11.9	(9.1-15.2)
25 – 34	17.2	(13.9-21.1)
35 – 44	19.1	(15.8-22.8)
45 – 54	23.0	(19.7-26.6)
55 – 64	21.2	(18.6-24.1)
65 – 74	23.9	(21.0-26.9)
75 +	31.2	(27.7-34.9)
Gender	20.8	(19.6-22.1)
Male	19.2	(17.5-21.0)
Female	22.4	(20.7-24.2)
Race/Ethnicity	20.7	(19.4-22.0)
White non-Hispanic	19.1	(17.8-20.4)
Black non-Hispanic	30.9	(26.5-35.5)
Other non-Hispanic	18.4	(13.9-24.0)
Hispanic	21.2	(15.2-28.9)
Education	20.8	(19.6-22.0)
Less than high school	35.3	(28.9-42.4)
High school graduate	27.0	(24.6-29.5)
Some college	18.7	(16.8-20.7)
College graduate	11.3	(10.1-12.8)
Household Income	19.8	(18.5-21.2)
< $20,000	32.5	(28.1-37.2)
$20,000 - $34,999	26.9	(23.5-30.5)
$35,000 - $49,999	22.3	(19.0-26.0)
$50,000 - $74,999	17.6	(14.8-20.7)
$75,000 +	11.3	(9.7-13.1)

[a] Among all adults, the proportion who reported not participating in any leisure time physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise during the past month. (N = 7,258)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 9: Cigarette Smoking
2020 Michigan BRFS

	Current Smoking[a]		Former Smoking[b]		Never Smoked	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**18.4**	**(17.1-19.7)**	**27.1**	**(25.8-28.5)**	**54.5**	**(53.0-56.0)**
Age						
18 – 24	10.8	(7.9-14.6)	7.7	(4.9-11.9)	81.5	(76.6-85.6)
25 – 34	22.6	(19.1-26.6)	18.8	(15.8-22.3)	58.5	(54.2-62.8)
35 – 44	24.5	(20.8-28.5)	28.7	(24.8-32.9)	46.9	(42.6-51.1)
45 – 54	23.9	(20.3-27.9)	24.4	(21.1-28.1)	51.7	(47.7-55.7)
55 – 64	21.7	(18.9-24.9)	29.3	(26.5-32.4)	48.9	(45.6-52.2)
65 – 74	13.4	(11.2-15.9)	39.9	(36.7-43.3)	46.6	(43.4-49.9)
75 +	4.9	(3.5-6.8)	45.7	(41.9-49.6)	49.4	(45.5-53.3)
Gender						
Male	19.7	(17.8-21.7)	27.7	(25.8-29.7)	52.6	(50.3-54.9)
Female	17.1	(15.6-18.8)	26.6	(24.7-28.5)	56.3	(54.2-58.4)
Race/Ethnicity						
White non-Hispanic	17.9	(16.5-19.4)	29.7	(28.2-31.2)	52.4	(50.7-54.1)
Black non-Hispanic	19.5	(15.8-24.0)	16.0	(12.7-19.9)	64.5	(59.6-69.1)
Other non-Hispanic	18.1	(13.5-24.0)	18.5	(13.6-24.7)	63.4	(56.5-69.8)
Hispanic	20.1	(13.9-28.1)	26.4	(18.6-36.0)	53.5	(44.5-62.4)
Education						
Less than high school	42.8	(35.8-50.1)	24.2	(18.7-30.6)	33.0	(26.4-40.4)
High school graduate	22.5	(20.2-25.0)	29.0	(26.6-31.7)	48.5	(45.6-51.4)
Some college	17.5	(15.6-19.5)	30.3	(28.0-32.8)	52.2	(49.6-54.8)
College graduate	6.5	(5.5-7.7)	21.9	(20.2-23.7)	71.6	(69.6-73.5)
Household Income						
< $20,000	34.5	(30.0-39.4)	24.3	(20.4-28.6)	41.2	(36.6-46.0)
$20,000 - $34,999	23.9	(20.4-27.7)	29.1	(25.6-32.9)	47.0	(43.0-51.0)
$35,000 - $49,999	20.9	(17.4-24.9)	29.4	(25.4-33.7)	49.7	(45.2-54.2)
$50,000 - $74,999	16.1	(13.4-19.2)	32.6	(29.2-36.3)	51.3	(47.5-55.1)
$75,000 +	10.3	(8.7-12.3)	25.2	(23.0-27.5)	64.5	(61.9-67.0)

[a] Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life and that they smoke cigarettes now, either every day or on some days. (N = 7,049)
[b] Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life, but they do not smoke cigarettes now. (N = 7,049)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 10: Current Smokers Who Attempted to Quit
2020 Michigan BRFS

	Tried to Quit Smoking One Day or Longer in Past Year[a]	
	%	**95% Confidence Interval**
Total	**56.2**	**(52.2-60.1)**
Age		
18 – 24	38.6	(24.7-54.7)
25 – 34	37.6	(28.4-47.7)
35 – 44	49.6	(40.6-58.7)
45 – 54	44.2	(35.0-53.8)
55 – 64	45.5	(37.8-53.5)
65 – 74	42.6	(33.6-52.2)
75 +	46.4	(30.6-62.9)
Gender		
Male	48.9	(43.1-54.7)
Female	38.3	(33.3-43.6)
Race/Ethnicity		
White non-Hispanic	46.6	(42.1-51.1)
Black non-Hispanic	30.6	(20.8-42.6)
Other non-Hispanic	45.6	(30.3-61.7)
Hispanic	--[b]	--[b]
Education		
Less than high school	48.6	(37.8-59.6)
High school graduate	49.0	(43.0-55.2)
Some college	35.4	(29.9-41.3)
College graduate	42.7	(34.5-51.3)
Household Income		
< $20,000	41.9	(33.8-50.4)
$20,000 - $34,999	47.8	(39.0-56.7)
$35,000 - $49,999	44.3	(34.6-54.5)
$50,000 - $74,999	39.4	(30.2-49.3)
$75,000 +	44.1	(35.0-53.5)

[a] Among current smokers, the proportion who reported that during the past 12 months, they had tried to quit smoking for one day or longer. (N = 1,010)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.   13

Table 11: E-Cigarette Use 2020 Michigan BRFS	Current E-Cigarette Use[a]	
	%	**95% Confidence Interval**
Total	**6.4**	**(5.5-7.6)**
Age		
18 – 24	21.1	(16.5-26.5)
25 – 34	10.9	(7.8-15.1)
35 – 44	6.0	(3.7-9.8)
45 – 54	--[b]	--[b]
55 – 64	2.8	(1.8-4.5)
65 – 74	--[b]	--[b]
75 +	--[b]	--[b]
Gender		
Male	6.9	(5.5-8.7)
Female	6.0	(4.7-7.5)
Race/Ethnicity		
White non-Hispanic	6.7	(5.6-8.0)
Black non-Hispanic	6.1	(3.4-10.8)
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education		
Less than high school	--[b]	--[b]
High school graduate	7.7	(5.9-10.1)
Some college	6.9	(5.4-8.7)
College graduate	3.1	(2.2-4.3)
Household Income		
< $20,000	5.9	(3.6-9.4)
$20,000 - $34,999	9.1	(6.1-13.3)
$35,000 - $49,999	6.7	(4.2-10.5)
$50,000 - $74,999	4.5	(3.0-6.7)
$75,000 +	5.8	(4.2-7.9)

[a] Among all adults, the proportion who reported that they currently use e-cigarettes or other electronic vaping products, either every day or on some days. (N = 4,407)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 12: Smokeless Tobacco Use **2020 Michigan BRFS**		
	Current Smokeless Tobacco Use[a]	
	%	**95% Confidence Interval**
Total	**2.9**	**(2.4-3.4)**
Age		
18 – 24	--[b]	--[b]
25 – 34	4.8	(3.3-6.9)
35 – 44	4.4	(2.9-6.5)
45 – 54	3.1	(2.1-4.8)
55 – 64	2.1	(1.3-3.3)
65 – 74	--[b]	--[b]
75 +	--[b]	--[b]
Gender		
Male	5.1	(4.2-6.2)
Female	0.7	(0.4-1.2)
Race/Ethnicity	2.9	(2.4-3.5)
White non-Hispanic	3.3	(2.7-4.1)
Black non-Hispanic	--[b]	--[b]
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education	2.9	(2.4-3.5)
Less than high school	5.4	(3.0-9.7)
High school graduate	3.5	(2.6-4.7)
Some college	2.5	(1.8-3.4)
College graduate	1.7	(1.2-2.5)
Household Income	2.9	(2.3-3.5)
< $20,000	2.1	(1.2-3.8)
$20,000 - $34,999	2.0	(1.2-3.4)
$35,000 - $49,999	3.0	(1.9-4.8)
$50,000 - $74,999	4.2	(2.6-6.6)
$75,000 +	2.9	(2.1-4.0)

[a] Among all adults, the proportion who reported that they currently use chewing tobacco, snuff or snus, either every day or on some days. (N = 7,078)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 13: Hookah Use
2020 Michigan BRFS

	Current Hookah Use[a]	
	%	**95% Confidence Interval**
Total	**2.4**	**(1.8-3.1)**
Age		
18 – 24	6.0	(3.5-10.2)
25 – 34	3.6	(2.1-6.2)
35 – 44	--[b]	--[b]
45 – 54	--[b]	--[b]
55 – 64	--[b]	--[b]
65 – 74	--[b]	--[b]
75 +	--[b]	--[b]
Gender		
Male	2.9	(2.1-4.1)
Female	1.8	(1.2-2.8)
Race/Ethnicity		
White non-Hispanic	1.9	(1.4-2.6)
Black non-Hispanic	--[b]	--[b]
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education		
Less than high school	--[b]	--[b]
High school graduate	2.0	(1.0-3.7)
Some college	3.1	(2.1-4.6)
College graduate	1.7	(1.1-2.6)
Household Income		
< $20,000	--[b]	--[b]
$20,000 - $34,999	--[b]	--[b]
$35,000 - $49,999	--[b]	--[b]
$50,000 - $74,999	3.2	(1.8-5.6)
$75,000 +	1.8	(1.1-3.1)

[a] Among all adults, the proportion who reported smoking tobacco using a hookah, narghile, or water pipe on one or more days during the previous thirty day. (N = 4,291)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 14: Alcohol Consumption 2020 Michigan BRFS						
	Any Alcohol in Past Month[a]		Heavy Drinking[b]		Binge Drinking[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**55.6**	**(54.1-57.2)**	**6.8**	**(6.0-7.6)**	17.4	(16.3-18.7)
Age						
18 – 24	50.1	(44.9-55.3)	5.3	(3.4-8.1)	25.2	(20.9-30.1)
25 – 34	65.5	(61.0-69.7)	8.7	(6.5-11.5)	25.3	(21.9-29.2)
35 – 44	63.4	(59.2-67.5)	8.3	(6.2-10.9)	22.7	(19.2-26.6)
45 – 54	59.5	(55.4-63.4)	7.8	(6.0-10.1)	19.8	(16.8-23.2)
55 – 64	57.3	(53.9-60.6)	7.8	(6.3-9.8)	14.7	(12.4-17.4)
65 – 74	47.8	(44.4-51.1)	4.6	(3.5-6.1)	7.7	(6.1-9.7)
75 +	37.8	(34.2-41.5)	3.1	(2.1-4.5)	2.4	(1.5-3.6)
Gender						
Male	58.5	(56.2-60.8)	7.6	(6.5-8.9)	22.0	(20.2-24.0)
Female	52.9	(50.8-54.9)	6.0	(5.1-7.0)	13.1	(11.6-14.7)
Race/Ethnicity						
White non-Hispanic	57.9	(56.2-59.6)	7.4	(6.5-8.3)	18.0	(16.7-19.4)
Black non-Hispanic	47.9	(43.0-52.8)	4.7	(3.0-7.2)	14.6	(11.3-18.7)
Other non-Hispanic	38.8	(32.5-45.5)	3.2	(1.9-5.4)	12.0	(8.5-16.7)
Hispanic	60.7	(52.0-68.8)	--[d]	--[d]	25.4	(17.6-35.2)
Education						
Less than high school	38.5	(31.7-45.7)	8.0	(4.8-13.1)	17.9	(12.7-24.5)
High school graduate	46.7	(43.8-49.6)	6.8	(5.5-8.4)	16.4	(14.4-18.7)
Some college	59.0	(56.4-61.5)	6.6	(5.5-8.0)	18.8	(16.6-21.1)
College graduate	67.1	(65.0-69.2)	6.6	(5.6-7.7)	16.8	(15.2-18.6)
Household Income						
< $20,000	41.4	(36.6-46.2)	5.2	(3.5-7.5)	16.4	(13.0-20.5)
$20,000 - $34,999	46.4	(42.4-50.5)	6.2	(4.5-8.5)	14.5	(11.8-17.8)
$35,000 - $49,999	57.6	(53.2-61.9)	8.5	(6.4-11.4)	21.2	(17.2-25.9)
$50,000 - $74,999	63.8	(60.0-67.4)	8.2	(6.4-10.5)	19.0	(16.2-22.2)
$75,000 +	69.7	(67.1-72.2)	8.0	(6.6-9.7)	21.2	(19.0-23.6)

[a] Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month. (N = 7,021)
[b] Among all adults, the proportion who reported consuming an average of more than two alcoholic drinks per day for men or more than one per day for women in the previous month. (N = 6,972)
[c] Among all adults, the proportion who reported consuming five or more drinks per occasion (for men) or 4 or more drinks per occasion (for women) at least once in the previous month. (N = 6,993)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 15: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers
2020 Michigan BRFS

	Number of Binge Drinking Occasions[a]	
	Mean	**95% Confidence Interval**
Total	**5.1**	**(4.5-5.7)**
Age		
18 – 24	3.7	(2.6-4.8)
25 – 34	5.2	(4.1-6.4)
35 – 44	6.1	(4.5-7.7)
45 – 54	4.7	(3.3-6.0)
55 – 64	6.2	(4.5-7.9)
65 – 74	4.9	(3.3-6.4)
75+	3.5	(1.7-5.2)
Gender		
Male	6.0	(5.1-6.8)
Female	3.7	(3.1-4.4)
Race/Ethnicity		
White non-Hispanic	5.3	(4.6-6.0)
Black non-Hispanic	4.1	(2.7-5.5)
Other non-Hispanic	5.4	(3.1-7.6)
Hispanic	4.4	(1.9-7.0)
Education		
Less than high school	7.1	(3.9-10.4)
High school graduate	5.2	(4.1-6.3)
Some college	5.6	(4.7-6.6)
College graduate	3.6	(3.1-4.1)
Household Income		
< $20,000	6.2	(4.1-8.2)
$20,000 - $34,999	5.6	(3.9-7.4)
$35,000 - $49,999	5.0	(3.6-6.5)
$50,000 - $74,999	4.8	(3.6-6.1)
$75,000 +	5.0	(4.0-5.9)

[a] Among adults who binge drank in the past month, the mean number of times during which five or more alcoholic beverages (for men) or four or more (for women) were consumed during the past month. (N = 1,010)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 16: Drove Motor Vehicle After Drinking 2020 Michigan BRFS		
	Drove Motor Vehicle After Drinking[a]	
	%	**95% Confidence Interval**
Total	**2.2**	**(1.7-2.8)**
Age		
18 – 24	--[b]	--[b]
25 – 34	3.3	(1.9-5.6)
35 – 44	--[b]	--[b]
45 – 54	--[b]	--[b]
55 – 64	2.1	(1.2-3.7)
65 – 74	2.0	(1.2-3.5)
75 +	--[b]	--[b]
Gender		
Male	2.9	(2.1-3.9)
Female	1.4	(0.9-2.3)
Race/Ethnicity		
White non-Hispanic	1.7	(1.3-2.3)
Black non-Hispanic	--[b]	--[b]
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education		
Less than high school	0.0	
High school graduate	3.4	(2.1-5.6)
Some college	2.1	(1.3-3.2)
College graduate	1.8	(1.2-2.6)
Household Income		
< $20,000	--[b]	--[b]
$20,000 - $34,999	--[b]	--[b]
$35,000 - $49,999	--[b]	--[b]
$50,000 - $74,999	2.6	(1.5-4.4)
$75,000 +	1.8	(1.1-2.9)

[a] Among adults who reporting drinking any alcohol within the past 30 days, the proportion who reported that they had driven when they'd had too much to drink at least once in the previous month. (N = 3,916)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

	Always Uses a Seatbelt[a]	
	%	**95% Confidence Interval**
Total	**89.6**	**(88.5-90.6)**
Age		
18 – 24	81.3	(76.9-85.0)
25 – 34	84.3	(80.4-87.6)
35 – 44	88.8	(85.5-91.5)
45 – 54	93.0	(90.7-94.7)
55 – 64	94.1	(92.4-95.5)
65 – 74	91.4	(89.2-93.2)
75 +	93.7	(91.3-95.5)
Gender		
Male	86.5	(84.7-88.2)
Female	92.5	(91.1-93.6)
Race/Ethnicity		
White non-Hispanic	90.0	(88.7-91.1)
Black non-Hispanic	88.5	(85.0-91.3)
Other non-Hispanic	90.2	(84.8-93.8)
Hispanic	88.0	(80.8-92.7)
Education		
Less than high school	83.8	(76.9-89.0)
High school graduate	87.5	(85.3-89.4)
Some college	89.5	(87.8-91.1)
College graduate	93.8	(92.6-94.8)
Household Income		
< $20,000	87.8	(84.1-90.7)
$20,000 - $34,999	88.0	(84.8-90.6)
$35,000 - $49,999	86.1	(82.5-89.1)
$50,000 - $74,999	90.6	(88.0-92.6)
$75,000 +	91.9	(90.1-93.4)

Table 17: Seatbelt Use
2020 Michigan BRFS

[a] Among all adults, the proportion who reported always using a seatbelt when driving or riding in a car. (N = 7,036)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 18: No Routine Checkup in Past Year		
2020 Michigan BRFS		
	Had No Routine Checkup in Past Year[a]	
	%	**95% Confidence Interval**
Total	**23.4**	**(22.1-24.8)**
Age		
18 - 24	30.5	(26.0-35.3)
25 - 34	35.7	(31.6-40.0)
35 - 44	29.3	(25.5-33.4)
45 - 54	24.6	(21.4-28.1)
55 - 64	18.3	(15.9-21.1)
65 - 74	12.1	(10.2-14.3)
75 +	8.8	(7.0-11.1)
Gender		
Male	28.2	(26.1-30.4)
Female	18.8	(17.3-20.5)
Race/Ethnicity		
White non-Hispanic	23.4	(22.0-24.9)
Black non-Hispanic	18.0	(14.5-22.1)
Other non-Hispanic	31.4	(25.4-38.1)
Hispanic	27.2	(20.3-35.3)
Education		
Less than high school	26.0	(20.0-33.1)
High school graduate	24.0	(21.5-26.6)
Some college	22.7	(20.6-25.0)
College graduate	22.7	(20.9-24.7)
Household Income		
< $20,000	24.5	(20.4-29.1)
$20,000 - $34,999	22.3	(19.0-26.0)
$35,000 - $49,999	26.4	(22.6-30.7)
$50,000 - $74,999	23.0	(19.9-26.4)
$75,000 +	22.1	(19.9-24.4)

[a] Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 7,187)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 19: Mammography Indicators Among Women Aged 40 Years and Older
2020 Michigan BRFS

	Ever Had Mammogram[a]		Had Mammogram in Past Year[b]		Had Mammogram in Past TwoYears[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**92.8**	**(91.3-94.1)**	**50.3**	**(48.0-52.7)**	**72.7**	**(70.5-74.7)**
Age						
40 - 49	77.3	(72.2-81.7)	40.8	(35.5-46.4)	63.4	(57.8-68.7)
50 - 59	--[d]	--[d]	51.4	(46.4-56.4)	78.4	(74.0-82.2)
60 - 69	--[d]	--[d]	58.4	(54.1-62.6)	79.2	(75.5-82.5)
70 +	97.2	(95.1-98.4)	48.5	(44.6-52.5)	67.9	(63.9-71.6)
Race/Ethnicity						
White non-Hispanic	93.3	(91.8-94.5)	49.8	(47.3-52.4)	72.1	(69.8-74.3)
Black non-Hispanic	90.4	(83.0-94.7)	55.6	(47.9-63.0)	76.1	(68.3-82.5)
Other non-Hispanic	--[d]	--[d]	46.9	(33.5-60.7)	66.7	(52.1-78.7)
Hispanic	--[d]	--[d]	44.3	(29.0-60.7)	--[d]	--[d]
Education						
< High school	85.2	(74.7-91.8)	44.4	(33.7-55.7)	60.1	(48.9-70.4)
High school graduate	94.0	(91.4-95.9)	46.6	(42.2-51.1)	70.5	(66.4-74.4)
Some college	93.0	(90.5-94.9)	50.1	(46.1-54.1)	74.1	(70.5-77.4)
College graduate	93.9	(91.6-95.5)	56.4	(52.9-59.8)	77.2	(74.1-80.0)
Household Income						
< $20,000	92.8	(88.2-95.6)	38.6	(31.9-45.8)	60.4	(53.2-67.2)
$20,000 - $34,999	--[d]	--[d]	47.7	(41.7-53.7)	72.4	(66.6-77.6)
$35,000 - $49,999	91.4	(87.3-94.2)	49.3	(43.0-55.7)	72.9	(67.2-78.0)
$50,000 - $74,999	93.1	(88.2-96.1)	52.2	(45.9-58.4)	76.0	(70.1-81.1)
$75,000 +	91.4	(88.1-93.9)	55.6	(51.3-59.8)	78.2	(74.3-81.6)

Note: Data included diagnostic tests.
[a] Among women aged 40 years and older, the proportion who reported ever having a mammogram. (N = 3,051)
[b] Among women aged 40 years and older, the proportion who reported having a mammogram in the past year. (N = 3,021)
[c] Among women aged 40 years and older, the proportion who reported having a mammogram in the past two years. (N = 3,021)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 20: Cervical Cancer Screening Among Women Aged 18 Years and Older
2020 Michigan BRFS

	Ever Had Pap Test[a]		Had Appropriately Timed Pap Test[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**89.3**	**(87.4-90.9)**	**68.7**	**(66.4-70.9)**
Age				
18 - 29	64.7	(58.9-70.1)	58.2	(52.3-63.9)
30 - 39	--c	--c	83.4	(77.6-87.9)
40 - 49	--c	--c	85.5	(80.6-89.4)
50 - 59	--c	--c	80.0	(75.0-84.2)
60 - 69	--c	--c	68.4	(63.1-73.2)
70 +	--c	--c	27.9	(23.6-32.7)
Race/Ethnicity				
White non-Hispanic	91.0	(89.0-92.6)	67.6	(65.0-70.1)
Black non-Hispanic	84.7	(78.3-89.4)	75.4	(68.7-81.0)
Other non-Hispanic	77.3	(65.0-86.2)	62.4	(50.2-73.1)
Hispanic	--c	--c	73.3	(61.0-82.9)
Education				
Less than high school	82.8	(71.3-90.3)	61.1	(48.4-72.4)
High school graduate	89.3	(85.6-92.2)	66.4	(61.8-70.7)
Some college	86.2	(82.7-89.0)	66.2	(62.1-70.0)
College graduate	94.9	(92.9-96.4)	76.3	(73.3-79.0)
Household Income				
< $20,000	85.1	(79.6-89.4)	61.0	(53.8-67.7)
$20,000 - $34,999	89.9	(85.3-93.2)	64.7	(58.5-70.4)
$35,000 - $49,999	89.1	(83.3-93.1)	63.7	(56.4-70.5)
$50,000 - $74,999	--c	--c	77.1	(71.7-81.8)
$75,000 +	90.6	(86.6-93.5)	75.4	(71.2-79.2)

Note: Data includes diagnostic tests and excludes women who have had a hysterectomy.
[a] Among women aged 18 years and older, the proportion who reported ever having a Pap test. (N = 2,819)
[b] Among women aged 18 years and older, the proportion who reported having a Pap test within the previous three years. (N = 2,739)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 21: Prostate Cancer Screening Among Men Aged 50 Years and Older
2020 Michigan BRFS

	Ever Discussed Advantages of PSA Test With Doctor[a]		Doctor Ever Recommended PSA Test[b]		Ever Had PSA Test[c]		Had PSA Test in Past Year[d]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**53.8**	**(50.7-56.8)**	**53.3**	**(50.2-56.3)**	**57.2**	**(54.1-60.3)**	**32.9**	**(30.2-35.7)**
Age								
50 - 59	42.9	(37.6-48.4)	42.2	(36.9-47.8)	41.3	(36.0-46.8)	18.6	(14.9-23.1)
60 - 69	56.6	(51.7-61.3)	56.6	(51.9-61.3)	60.2	(55.3-65.0)	36.1	(31.6-40.8)
70 +	63.6	(58.5-68.4)	62.4	(57.3-67.3)	73.3	(68.3-77.7)	46.9	(41.9-52.0)
Race/Ethnicity								
White non-Hispanic	54.4	(51.2-57.6)	54.5	(51.3-57.7)	59.5	(56.2-62.7)	34.4	(31.5-37.4)
Black non-Hispanic	54.8	(44.0-65.2)	52.0	(41.3-62.5)	51.1	(40.5-61.7)	28.0	(19.6-38.2)
Other non-Hispanic	44.6	(27.7-62.8)	33.3	(18.5-52.3)	38.3	(23.0-56.4)	--[e]	--[e]
Hispanic	40.6	(21.5-63.1)	--[e]	--[e]	40.9	(21.5-63.7)	--[e]	--[e]
Education								
< High school	29.3	(18.8-42.6)	28.3	(17.6-42.3)	27.3	(16.6-41.4)	--[e]	--[e]
High school graduate	43.2	(37.8-48.8)	45.4	(39.8-51.0)	47.6	(42.0-53.3)	26.8	(22.0-32.2)
Some college	60.4	(55.3-65.3)	56.8	(51.6-61.8)	63.1	(57.9-68.0)	35.9	(31.1-41.1)
College graduate	65.0	(60.8-69.0)	64.9	(60.8-68.9)	69.2	(65.0-73.1)	41.7	(37.6-46.0)
Household Income								
< $20,000	33.9	(24.8-44.5)	31.9	(22.5-43.0)	32.4	(23.4-43.0)	14.9	(9.6-22.5)
$20,000 - $34,999	50.4	(42.7-58.2)	49.3	(41.5-57.1)	55.6	(47.6-63.4)	31.5	(24.5-39.5)
$35,000 - $49,999	55.3	(47.5-62.9)	52.5	(44.7-60.1)	58.4	(50.4-66.0)	28.7	(22.4-36.1)
$50,000 - $74,999	56.4	(49.3-63.1)	57.0	(49.9-63.8)	60.7	(53.6-67.4)	38.8	(32.1-46.0)
$75,000 +	60.0	(55.1-64.8)	61.7	(56.8-66.3)	63.8	(58.8-68.6)	36.7	(32.1-41.5)

Among men aged 50 years and older, the proportion who reported…
[a] ever discussing the advantages of a Prostate-Specific Antigen (PSA) test with a doctor, nurse, or other health professional (N = 1,794).
[b] ever receiving a recommendation from a doctor, nurse, or other health professional to get a PSA test (N = 1,780).
[c] ever having a PSA test (N = 1,766).
[d] having a PSA test within the past year (N = 1,730).
[e] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 22: Colorectal Cancer Screening (Blood Stool Test) Among Adults Aged 50 Years and Older 2020 Michigan BRFS				
	Ever Had Blood Stool Test[a]		Had Blood Stool Test in Past Two Years[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**38.0**	**(36.2-39.9)**	**17.1**	**(15.6-18.7)**
Age				
50 - 59	24.6	(21.4-28.2)	13.0	(10.3-16.2)
60 - 69	39.0	(35.9-42.1)	18.2	(15.8-20.9)
70 +	51.2	(48.0-54.3)	20.4	(17.8-23.1)
Gender				
Male	35.6	(32.8-38.5)	16.5	(14.2-19.2)
Female	40.2	(37.7-42.7)	17.7	(15.8-19.7)
Race/Ethnicity				
White non-Hispanic	38.3	(36.3-40.3)	16.3	(14.8-18.0)
Black non-Hispanic	38.0	(31.8-44.7)	21.6	(16.5-27.9)
Other non-Hispanic	31.9	(22.4-43.3)	17.4	(10.4-27.7)
Hispanic	30.8	(18.2-47.0)	--[c]	--[c]
Education				
Less than high school	35.8	(27.2-45.6)	22.1	(14.4-32.2)
High school graduate	39.5	(36.1-43.1)	18.3	(15.7-21.3)
Some college	38.4	(35.3-41.7)	16.6	(14.3-19.3)
College graduate	36.8	(34.1-39.5)	14.8	(12.8-16.9)
Household Income				
< $20,000	38.7	(32.7-45.1)	18.9	(14.5-24.2)
$20,000 - $34,999	39.9	(35.3-44.7)	19.6	(16.1-23.7)
$35,000 - $49,999	41.2	(36.3-46.3)	14.7	(11.4-18.8)
$50,000 - $74,999	37.3	(32.7-42.1)	16.4	(12.8-20.6)
$75,000 +	32.6	(29.5-35.9)	14.2	(11.9-16.7)

[a] Among adults aged 50 years and older, the proportion who reported ever having a blood stool test using a home kit. (N = 4,433)
[b] Among adults aged 50-75 years, the proportion who reported having a blood stool test within the past two years using a home kit (N = 4,358)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 23: Colorectal Cancer Screening (Sigmoidoscopy/Colonoscopy) Among Adults Aged 50 Years and Older 2020 Michigan BRFS						
	Ever Had a Sigmoidoscopy or Colonoscopy[a]		Had a Sigmoidoscopy or Colonoscopy in Past 5 Years[b]		Had a Sigmoidoscopy in Past 5 Years or Colonoscopy in Past 10 Years[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**79.4**	**(77.7-81.1)**	**55.6**	**(53.6-57.5)**	**71.9**	**(70.0-73.7)**
Age						
50 - 59	66.6	(62.9-70.2)	50.5	(46.7-54.2)	62.8	(59.0-66.5)
60 - 69	84.1	(81.4-86.4)	59.2	(56.0-62.4)	76.7	(73.8-79.4)
70 +	87.9	(85.7-89.8)	57.0	(53.8-60.2)	76.3	(73.5-78.8)
Gender						
Male	77.5	(74.7-80.0)	53.8	(50.8-56.8)	71.1	(68.2-73.8)
Female	81.2	(78.9-83.3)	57.2	(54.5-59.7)	72.6	(70.2-75.0)
Race/Ethnicity						
White non-Hispanic	80.5	(78.7-82.3)	56.2	(54.1-58.3)	72.6	(70.6-74.5)
Black non-Hispanic	77.3	(71.1-82.5)	54.7	(47.7-61.5)	70.5	(63.9-76.4)
Other non-Hispanic	67.2	(55.2-77.4)	40.3	(29.2-52.5)	60.7	(48.7-71.5)
Hispanic	73.6	(56.1-85.9)	58.3	(41.7-73.3)	72.2	(54.9-84.7)
Education						
Less than high school	72.4	(62.4-80.6)	44.7	(35.3-54.4)	62.9	(52.9-71.9)
High school graduate	78.1	(74.8-81.1)	53.4	(49.7-57.1)	70.5	(66.9-73.8)
Some college	80.1	(77.3-82.7)	57.2	(53.9-60.5)	72.8	(69.8-75.7)
College graduate	82.7	(80.3-84.7)	59.6	(56.8-62.4)	75.5	(73.0-77.9)
Household Income						
< $20,000	73.4	(67.2-78.8)	48.0	(41.6-54.6)	63.9	(57.3-69.9)
$20,000 - $34,999	76.5	(71.5-80.8)	48.9	(43.9-54.0)	67.1	(61.9-71.8)
$35,000 - $49,999	78.2	(73.7-82.2)	52.4	(47.2-57.6)	69.8	(64.9-74.3)
$50,000 - $74,999	83.7	(79.8-86.9)	63.7	(59.0-68.2)	78.9	(74.7-82.5)
$75,000 +	80.9	(78.0-83.4)	59.2	(55.8-62.6)	74.8	(71.7-77.7)

[a] Among adults aged 50 years and older, the proportion who reported ever having a sigmoidoscopy or colonoscopy. (N = 4,443)
[b] Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy or colonoscopy in the past five years. (N = 4,287)
[c] Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy in the past five years or a colonoscopy in the past ten years. (N = 4,341)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 24: Appropriate Colorectal Cancer Screening Among Adults 50 Years and Older 2020 Michigan BRFS		
	Appropriate Colorectal Cancer Screening[a]	
	%	**95% Confidence Interval**
Total	**75.6**	**(73.9-77.3)**
Age		
50 - 59	66.8	(63.2-70.2)
60 - 69	80.9	(78.1-83.4)
70 +	79.2	(76.6-81.7)
Gender		
Male	75.0	(72.4-77.4)
Female	76.2	(73.8-78.5)
Race/Ethnicity		
White non-Hispanic	76.3	(74.5-78.1)
Black non-Hispanic	74.8	(68.3-80.3)
Other non-Hispanic	65.1	(53.1-75.5)
Hispanic	73.8	(56.2-86.0)
Education		
Less than high school	70.8	(61.9-78.4)
High school graduate	74.0	(70.5-77.2)
Some college	76.1	(73.1-78.8)
College graduate	78.7	(76.3-80.9)
Household Income		
< $20,000	68.3	(61.9-74.2)
$20,000 - $34,999	71.2	(66.1-75.8)
$35,000 - $49,999	73.9	(69.1-78.1)
$50,000 - $74,999	80.5	(76.4-84.0)
$75,000 +	78.4	(75.4-81.2)

[a] Among adults aged 50 years and older, the proportion who reported having either a fecal occult blood test within the past year, a sigmoidoscopy within the past five years, or a colonoscopy within the past ten years. (N = 4,353)

Table 25: Oral Health 2020 Michigan BRFS				
	No Dental Visit in Past Year[a]		6+ Teeth Missing[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**30.8**	**(29.3-32.2)**	**14.9**	**(13.9-16.1)**
Age				
18 - 24	29.1	(24.5-34.2)	--[c]	--[c]
25 - 34	36.9	(32.8-41.2)	5.4	(3.3-8.8)
35 - 44	33.9	(30.0-38.1)	8.3	(6.2-11.1)
45 - 54	29.7	(26.2-33.6)	12.4	(9.6-15.9)
55 - 64	30.0	(27.0-33.1)	21.0	(18.2-24.0)
65 - 74	25.9	(23.0-29.1)	27.2	(24.2-30.4)
75 +	27.7	(24.0-31.7)	37.9	(33.9-42.1)
Gender	30.8	(29.3-32.2)	14.9	(13.9-16.1)
Male	32.9	(30.8-35.1)	13.8	(12.2-15.6)
Female	28.7	(26.8-30.7)	16.0	(14.6-17.5)
Race/Ethnicity	30.7	(29.2-32.2)	14.9	(13.8-16.0)
White non-Hispanic	28.7	(27.2-30.3)	14.7	(13.5-16.0)
Black non-Hispanic	37.2	(32.6-42.0)	19.1	(15.8-22.9)
Other non-Hispanic	35.8	(29.5-42.6)	11.4	(7.9-16.2)
Hispanic	39.1	(30.6-48.3)	10.4	(6.0-17.2)
Education	30.8	(29.3-32.3)	15.0	(13.9-16.1)
Less than high school	49.5	(42.3-56.7)	37.8	(31.1-44.9)
High school graduate	36.9	(34.2-39.7)	18.5	(16.6-20.6)
Some college	30.1	(27.7-32.6)	13.6	(12.0-15.4)
College graduate	18.3	(16.6-20.1)	4.7	(3.9-5.6)
Household Income	29.8	(28.3-31.4)	13.6	(12.5-14.7)
< $20,000	48.6	(43.8-53.4)	31.2	(27.0-35.7)
$20,000 - $34,999	40.1	(36.1-44.1)	20.6	(17.7-23.7)
$35,000 - $49,999	33.7	(29.4-38.4)	16.2	(13.4-19.3)
$50,000 - $74,999	24.4	(21.3-27.8)	10.7	(8.6-13.3)
$75,000 +	18.3	(16.3-20.5)	3.6	(2.8-4.8)

[a] Among all adults, the proportion who reported that they had not visited a dentist or dental clinic for any reason in the previous year. (N = 7,210)
[b] Among all adults, the proportion who reported that they were missing 6+ teeth due to tooth decay or gum disease. This excludes teeth lost for other reasons, such as injury or orthodontics. (N = 7,120)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 26: Immunizations among Adults Aged 65 Years and Older
2020 Michigan BRFS

	Had Flu Vaccine in Past Year[a]		Ever Had Pneumonia Vaccine[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**71.7**	**(69.4-73.9)**	**71.8**	**(69.4-74.2)**
Age				
65 - 74	72.4	(69.4-75.2)	68.4	(65.1-71.5)
75 +	70.7	(66.8-74.2)	77.0	(73.2-80.5)
Gender				
Male	71.6	(67.8-75.0)	66.6	(62.7-70.3)
Female	71.8	(68.8-74.7)	76.0	(72.9-78.9)
Race/Ethnicity				
White non-Hispanic	72.9	(70.4-75.2)	74.0	(71.5-76.4)
Black non-Hispanic	65.2	(55.6-73.6)	56.4	(46.6-65.7)
Other non-Hispanic	69.9	(51.7-83.5)	62.8	(41.1-80.4)
Hispanic	--[c]	--[c]	--[c]	--[c]
Education				
Less than high school	60.2	(47.9-71.3)	60.9	(48.2-72.2)
High school graduate	72.2	(67.8-76.2)	72.8	(68.2-77.0)
Some college	71.6	(67.6-75.2)	72.9	(68.7-76.6)
College graduate	75.3	(71.9-78.3)	72.9	(69.4-76.2)
Household Income				
< $20,000	66.2	(58.3-73.4)	70.3	(62.2-77.4)
$20,000 - $34,999	68.4	(62.7-73.5)	70.8	(65.3-75.7)
$35,000 - $49,999	67.6	(61.3-73.3)	68.3	(61.5-74.3)
$50,000 - $74,999	78.8	(73.2-83.6)	79.9	(74.2-84.6)
$75,000 +	80.0	(75.5-83.8)	76.1	(71.2-80.3)

[a] Among adults aged 65 years and older, the proportion who reported that they had a flu vaccine, either by an injection in the arm or sprayed in the nose during the past 12 months. (N = 2,626)
[b] Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 2,538)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 27: HIV Testing among Adults Aged 18 - 64 Years
2020 Michigan BRFS

	Ever Had an HIV Test[a]	
	%	**95% Confidence Interval**
Total	**43.2**	**(41.3-45.1)**
Age		
18 – 24	30.0	(25.2-35.3)
25 – 34	45.4	(41.0-49.9)
35 – 44	54.2	(49.9-58.6)
45 – 54	50.7	(46.5-54.8)
55 – 64	35.1	(31.9-38.5)
Gender		
Male	38.4	(35.7-41.1)
Female	48.1	(45.4-50.8)
Race/Ethnicity		
White non-Hispanic	38.4	(36.3-40.5)
Black non-Hispanic	65.9	(60.2-71.2)
Other non-Hispanic	40.0	(32.8-47.6)
Hispanic	52.2	(42.7-61.5)
Education		
Less than high school	52.9	(43.8-61.9)
High school graduate	42.5	(38.9-46.1)
Some college	43.6	(40.4-46.9)
College graduate	39.7	(37.0-42.4)
Household Income		
< $20,000	57.4	(51.5-63.0)
$20,000 - $34,999	48.8	(43.5-54.2)
$35,000 - $49,999	41.3	(35.3-47.5)
$50,000 - $74,999	44.4	(39.9-49.1)
$75,000 +	38.2	(35.3-41.3)

[a] Among adults aged 18 - 64 years, the proportion who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation. Don't know was considered a valid response to this question. (N = 4,070)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 28: Asthma among Adults 2020 Michigan BRFS				
	Lifetime Asthma Prevalence[a]		Current Asthma Prevalence[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**15.4**	**(14.4-16.6)**	**11.0**	**(10.1-12.0)**
Age				
18 - 24	15.7	(12.5-19.6)	10.8	(8.2-14.0)
25 - 34	18.9	(15.5-22.8)	12.3	(9.4-16.0)
35 - 44	15.7	(12.9-19.0)	9.6	(7.4-12.2)
45 - 54	16.9	(14.1-20.0)	12.9	(10.5-15.8)
55 - 64	15.2	(13.0-17.6)	11.5	(9.6-13.6)
65 - 74	13.6	(11.5-16.0)	10.8	(8.9-13.1)
75 +	9.8	(7.9-12.1)	8.0	(6.2-10.2)
Gender				
Male	11.9	(10.5-13.5)	7.3	(6.1-8.7)
Female	18.8	(17.2-20.4)	14.6	(13.2-16.1)
Race/Ethnicity				
White non-Hispanic	15.0	(13.8-16.3)	10.5	(9.5-11.6)
Black non-Hispanic	17.3	(14.0-21.1)	13.5	(10.7-17.0)
Other non-Hispanic	17.4	(12.8-23.1)	13.2	(9.2-18.5)
Hispanic	14.3	(9.5-20.8)	10.5	(6.5-16.4)
Education				
Less than high school	20.1	(15.0-26.4)	15.7	(11.0-21.8)
High school graduate	16.0	(13.9-18.3)	11.5	(9.7-13.5)
Some college	15.0	(13.3-16.8)	10.2	(8.9-11.8)
College graduate	13.9	(12.5-15.5)	10.0	(8.8-11.4)
Household Income				
< $20,000	22.2	(18.5-26.4)	16.6	(13.4-20.4)
$20,000 - $34,999	15.8	(13.1-19.0)	11.9	(9.5-14.8)
$35,000 - $49,999	14.5	(11.4-18.1)	11.2	(8.5-14.6)
$50,000 - $74,999	12.4	(10.3-15.0)	8.6	(6.8-10.8)
$75,000 +	13.3	(11.6-15.1)	9.1	(7.7-10.6)

[a] Among all adults, the proportion who reported that they were ever told by a doctor, nurse, or other health care professional that they had asthma. (N = 7,242)
[b] Among all adults, the proportion who reported that they still had asthma. (N = 7,204)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

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Table 29: Asthma among Children 2020 Michigan BRFS				
	Lifetime Asthma Prevalence[a]		Current Asthma Prevalence[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**12.4**	**(10.4-14.7)**	**8.4**	**(6.9-10.3)**
Age				
0 - 4	--[c]	--[c]	--[c]	--[c]
5 - 9	13.5	(9.9-18.2)	11.3	(8.0-15.6)
10 - 14	17.2	(12.9-22.6)	11.9	(8.2-17.1)
15 - 17	17.1	(11.9-23.9)	9.5	(6.6-13.7)
Gender				
Boy	14.3	(11.3-17.8)	9.4	(7.1-12.2)
Girl	10.8	(8.2-13.9)	7.7	(5.6-10.4)
Race/Ethnicity				
White non-Hispanic	10.9	(8.9-13.4)	7.2	(5.6-9.3)
Black non-Hispanic	18.1	(11.8-26.8)	13.3	(8.3-20.7)
Other non-Hispanic	12.9	(7.6-21.1)	8.4	(4.8-14.3)
Hispanic	12.5	(7.3-20.6)	8.7	(4.7-15.5)
Respondent Education				
Less than high school	--[c]	--[c]	--[c]	--[c]
High school graduate	12.5	(8.6-17.6)	9.4	(6.0-14.4)
Some college	13.4	(9.8-17.9)	8.6	(6.1-12.1)
College graduate	12.0	(9.0-15.7)	7.7	(5.6-10.4)
Household Income				
< $20,000	17.8	(11.5-26.5)	14.5	(8.8-22.9)
$20,000 - $34,999	17.7	(11.1-26.8)	13.7	(8.5-21.5)
$35,000 - $49,999	13.7	(8.5-21.3)	10.5	(6.2-17.1)
$50,000 - $74,999	11.8	(7.7-17.8)	6.9	(3.9-12.1)
$75,000 +	9.4	(7.1-12.5)	5.6	(3.9-8.0)

[a] Estimated proportion of Michigan children aged 0-17 years who were ever told by a doctor, nurse or other health professional that they had asthma, using proxy information from the adult respondent. (N = 1,457).
[b] Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 1,447)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 30: Chronic Obstructive Pulmonary Disease (COPD) 2020 Michigan BRFS	Ever Told COPD, Emphysema or Chronic Bronchitis[a]	
	%	**95% Confidence Interval**
Total	**8.3**	**(7.6-9.2)**
Age		
18 - 24	--[b]	--[b]
25 - 34	3.7	(2.4-5.8)
35 - 44	5.4	(3.7-7.8)
45 - 54	7.7	(5.6-10.5)
55 - 64	11.5	(9.5-13.8)
65 - 75	15.6	(13.3-18.3)
75 +	15.8	(13.2-18.9)
Gender		
Male	7.1	(6.1-8.3)
Female	9.5	(8.4-10.8)
Race/Ethnicity		
White/Non-Hispanic	8.9	(8.0-9.8)
Black/Non-Hispanic	6.7	(4.6-9.7)
Other/Non-Hispanic	7.0	(4.2-11.4)
Hispanic	--[b]	--[b]
Education		
Less than high school	20.3	(15.7-25.9)
High school graduate	10.6	(9.1-12.4)
Some college	7.1	(6.1-8.3)
College graduate	3.2	(2.5-4.0)
Household Income		
< $20,000	19.2	(15.8-23.2)
$20,000 - $34,999	11.7	(9.4-14.5)
$35,000 - $49,999	8.8	(6.9-11.3)
$50,000 - $74,999	4.9	(3.6-6.6)
$75,000 +	3.0	(2.2-4.1)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had chronic obstructive pulmonary disease (COPD), emphysema or chronic bronchitis. (N = 7,238)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 31: Arthritis 2020 Michigan BRFS		
Demographic Characteristics	**Ever Told Arthritis[a]**	
	%	**95% Confidence Interval**
Total	**30.1**	**(28.8-31.4)**
Age		
18 - 24	3.9	(2.4-6.4)
25 - 34	8.9	(6.9-11.5)
35 - 44	14.7	(11.9-17.9)
45 - 54	29.8	(26.4-33.5)
55 - 64	45.9	(42.7-49.2)
65 - 75	54.2	(50.9-57.4)
75 +	60.8	(56.9-64.6)
Gender		
Male	24.1	(22.4-25.9)
Female	35.6	(33.8-37.6)
Race/Ethnicity		
White/Non-Hispanic	31.8	(30.3-33.3)
Black/Non-Hispanic	28.1	(24.2-32.4)
Other/Non-Hispanic	23.2	(18.0-29.3)
Hispanic	18.3	(12.8-25.6)
Education		
Less than high school	38.4	(32.1-45.2)
High school graduate	33.0	(30.5-35.5)
Some college	31.0	(28.8-33.3)
College graduate	22.6	(20.9-24.4)
Household Income		
< $20,000	42.9	(38.4-47.7)
$20,000 - $34,999	35.7	(32.1-39.4)
$35,000 - $49,999	31.6	(27.8-35.6)
$50,000 - $74,999	27.7	(24.6-31.0)
$75,000 +	19.7	(17.8-21.6)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. (N = 7,230)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 32: Cardiovascular Disease
2020 Michigan BRFS

	Ever Told Heart Attack[a]		Had Told Angina or Coronary Heart Disease[b]		Ever Told Stroke[c]		Ever Told Any Cardiovascular Disease[d]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	5.1	(4.5-5.8)	5.0	(4.4-5.7)	3.5	(3.0-4.0)	10.0	(9.1-10.9)
Age								
18 - 34	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	1.4	(0.8-2.5)
35 - 44	--[e]	--[e]	--[c]	--[c]	--[e]	--[e]	3.5	(2.2-5.5)
45 - 54	5.0	(3.3-7.4)	3.3	(2.1-5.1)	2.6	(1.5-4.4)	8.2	(6.1-10.9)
55 - 64	7.7	(6.0-9.8)	6.8	(5.3-8.8)	4.6	(3.4-6.1)	13.4	(11.2-15.9)
65 - 74	9.5	(7.7-11.7)	10.6	(8.7-12.9)	6.0	(4.7-7.8)	18.9	(16.3-21.8)
75 +	13.9	(11.2-17.0)	15.9	(13.0-19.4)	10.2	(8.0-12.7)	30.0	(26.3-34.0)
Gender								
Male	6.6	(5.7-7.7)	6.1	(5.2-7.1)	3.0	(2.4-3.7)	11.4	(10.2-12.8)
Female	3.6	(2.9-4.5)	3.9	(3.2-4.9)	4.0	(3.3-4.8)	8.6	(7.5-9.8)
Race/Ethnicity								
White non-Hispanic	5.3	(4.6-6.0)	5.5	(4.8-6.3)	3.6	(3.1-4.2)	10.5	(9.5-11.5)
Black non-Hispanic	4.7	(2.9-7.4)	3.0	(1.8-4.7)	3.7	(2.5-5.6)	9.4	(7.0-12.6)
Other non-Hispanic	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	6.4	(3.8-10.6)
Hispanic	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]
Education								
< High school	10.8	(7.5-15.4)	8.1	(5.0-12.7)	4.9	(2.9-8.0)	18.1	(13.5-23.8)
High school graduate	5.9	(4.8-7.3)	4.8	(3.9-6.0)	4.4	(3.4-5.5)	11.4	(9.8-13.1)
Some college	4.6	(3.7-5.6)	5.1	(4.2-6.2)	3.3	(2.6-4.2)	9.2	(8.0-10.6)
College graduate	2.8	(2.3-3.5)	3.9	(3.2-4.7)	2.1	(1.6-2.8)	6.5	(5.6-7.6)
Household Income								
< $20,000	8.2	(6.2-10.9)	7.8	(5.7-10.6)	7.9	(5.8-10.7)	15.9	(12.9-19.4)
$20,000 - $34,999	5.9	(4.3-8.0)	5.7	(4.4-7.4)	4.1	(3.0-5.6)	11.3	(9.2-13.8)
$35,000 - $49,999	7.6	(5.6-10.2)	5.4	(3.9-7.4)	3.7	(2.6-5.3)	12.2	(9.8-15.2)
$50,000 - $74,999	4.2	(2.9-5.9)	5.0	(3.7-6.6)	2.4	(1.5-3.9)	8.9	(7.0-11.1)
$75,000 +	2.5	(1.9-3.4)	2.9	(2.2-3.8)	1.5	(1.0-2.2)	5.1	(4.2-6.3)

Among all adults, the proportion who had ever been told by a doctor that…
[a] they had a heart attack or myocardial infarction (N = 7,241);
[b] they had angina or coronary heart disease (N = 7,218);
[c] they had a stroke. (N = 7,254)
[d] they had a heart attack, coronary heart disease or a stroke. (N = 7,209)
[e] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

	Ever Told Skin Cancer[a]		Ever Told Any Other Types of Cancer[b]		Ever Told Cancer[c]	
Table 33: Cancer **2020 Michigan BRFS**						
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**6.2**	**(5.6-6.8)**	**7.6**	**(6.9-8.3)**	**12.4**	**(11.6-13.3)**
Age						
18 - 34	--[d]	--[d]	--[d]	--[d]	--[d]	--[d]
35 - 44	--[d]	--[d]	4.1	(2.6-6.4)	5.1	(3.4-7.5)
45 - 54	4.1	(2.9-5.7)	4.8	(3.5-6.5)	8.7	(6.9-10.8)
55 - 64	6.7	(5.3-8.4)	9.3	(7.6-11.4)	15.0	(12.9-17.5)
65 - 74	14.2	(12.1-16.5)	16.7	(14.4-19.3)	27.0	(24.2-30.0)
75 +	23.2	(20.3-26.4)	19.4	(16.4-22.8)	36.7	(33.1-40.5)
Gender						
Male	5.7	(5.0-6.6)	6.2	(5.3-7.2)	10.6	(9.5-11.8)
Female	6.6	(5.8-7.5)	8.9	(7.8-10.0)	14.2	(12.9-15.5)
Race/Ethnicity						
White non-Hispanic	7.8	(7.1-8.5)	8.2	(7.4-9.0)	14.3	(13.3-15.4)
Black non-Hispanic	--[d]	--[d]	6.4	(4.5-9.0)	7.0	(5.0-9.7)
Other non-Hispanic	--[d]	--[d]	3.1	(1.8-5.1)	4.9	(3.0-7.8)
Hispanic	--[d]	--[d]	--[d]	--[d]	--[d]	--[d]
Education						
Less than high school	3.4	(2.0-5.8)	11.9	(8.3-16.9)	14.3	(10.4-19.3)
High school graduate	5.6	(4.6-6.8)	7.3	(6.1-8.7)	11.7	(10.1-13.4)
Some college	6.7	(5.7-7.9)	7.1	(6.1-8.4)	12.5	(11.1-14.1)
College graduate	7.3	(6.4-8.3)	6.8	(5.9-7.8)	12.5	(11.3-13.8)
Household Income						
< $20,000	5.2	(3.7-7.3)	9.3	(7.0-12.2)	13.9	(11.2-17.3)
$20,000 - $34,999	5.3	(4.0-6.8)	7.0	(5.5-8.8)	11.2	(9.3-13.5)
$35,000 - $49,999	6.1	(4.7-7.8)	7.5	(5.8-9.7)	12.0	(9.9-14.5)
$50,000 - $74,999	6.3	(4.9-8.1)	8.6	(6.6-11.0)	13.6	(11.3-16.4)
$75,000 +	5.9	(5.0-6.9)	5.5	(4.5-6.6)	10.4	(9.1-11.8)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 7,246)
[b] Among all adults, the proportion who reported ever being told by a doctor that they had a form of cancer other than skin cancer. (N = 7,249)
[c] Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer or any other type of cancer. (N = 7,232)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 34: Diabetes 2020 Michigan BRFS		
	Ever Told Diabetes[a]	
	%	**95% Confidence Interval**
Total	**12.3**	**(11.4-13.3)**
Age		
18 – 24	--[b]	--[b]
25 – 34	2.9	(1.6-5.0)
35 – 44	5.5	(3.8-8.0)
45 – 54	14.8	(12.1-18.0)
55 – 64	17.8	(15.4-20.6)
65 – 74	23.7	(21.0-26.7)
75 +	23.9	(20.5-27.7)
Gender		
Male	13.2	(11.8-14.7)
Female	11.5	(10.3-12.8)
Race/Ethnicity		
White non-Hispanic	11.8	(10.8-12.8)
Black non-Hispanic	16.7	(13.5-20.5)
Other non-Hispanic	11.9	(8.2-17.0)
Hispanic	8.2	(4.9-13.6)
Education		
Less than high school	20.8	(15.9-26.7)
High school graduate	12.8	(11.2-14.6)
Some college	12.8	(11.3-14.6)
College graduate	8.0	(7.0-9.2)
Household Income		
< $20,000	18.8	(15.5-22.7)
$20,000 - $34,999	14.4	(12.0-17.2)
$35,000 - $49,999	12.1	(9.8-14.9)
$50,000 - $74,999	10.9	(8.8-13.3)
$75,000 +	8.0	(6.7-9.6)

[a] Among all adults, the proportion who reported that they were ever told by a doctor that they had diabetes. Adults told they have prediabetes and women who had diabetes only during pregnancy were classified as not having been diagnosed. (N = 7,255)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 35: Kidney Disease 2020 Michigan BRFS		
	Ever Told Kidney Disease[a]	
	%	**95% Confidence Interval**
Total	**3.2**	**(2.7-3.7)**
Age		
18 – 24	--[b]	--[b]
25 – 34	--[b]	---[b]
35 – 44	--[b]	---[b]
45 – 54	1.8	(1.1-3.0)
55 – 64	3.1	(2.3-4.3)
65 – 74	8.3	(6.5-10.5)
75 +	7.8	(5.9-10.3)
Gender		
Male	2.5	(2.0-3.2)
Female	3.8	(3.1-4.7)
Race/Ethnicity		
White non-Hispanic	3.4	(2.9-4.0)
Black non-Hispanic	3.4	(2.1-5.4)
Other non-Hispanic	--[b]	---[b]
Hispanic	--[b]	---[b]
Education		
Less than high school	5.3	(3.1-8.8)
High school graduate	3.4	(2.6-4.5)
Some college	3.0	(2.3-3.9)
College graduate	2.5	(2.0-3.3)
Household Income		
< $20,000	3.8	(2.5-5.6)
$20,000 - $34,999	4.5	(3.2-6.2)
$35,000 - $49,999	3.0	(2.0-4.6)
$50,000 - $74,999	3.3	(2.2-4.9)
$75,000 +	2.0	(1.4-2.8)
[a] Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease. (N = 7,249) [b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 36: Depression 2020 Michigan BRFS	Ever Told Depression[a]	
	%	**95% Confidence Interval**
Total	**19.5**	**(18.3-20.8)**
Age		
18 – 24	21.4	(17.3-26.1)
25 – 34	23.9	(20.4-27.7)
35 – 44	23.1	(19.8-26.6)
45 – 54	20.8	(17.5-24.5)
55 – 64	16.5	(14.3-19.0)
65 – 74	19.8	(17.3-22.7)
75 +	8.5	(6.8-10.7)
Gender		
Male	13.8	(12.3-15.4)
Female	25.0	(23.2-26.9)
Race/Ethnicity		
White non-Hispanic	20.2	(18.8-21.6)
Black non-Hispanic	15.6	(12.6-19.3)
Other non-Hispanic	16.9	(12.2-23.0)
Hispanic	25.3	(17.7-34.8)
Education		
Less than high school	27.4	(21.6-34.2)
High school graduate	20.5	(18.3-22.9)
Some college	20.1	(18.1-22.3)
College graduate	14.8	(13.4-16.4)
Household Income		
< $20,000	33.6	(29.2-38.2)
$20,000 - $34,999	23.1	(19.8-26.6)
$35,000 - $49,999	18.1	(14.6-22.2)
$50,000 - $74,999	18.9	(16.2-22.1)
$75,000 +	11.0	(9.5-12.7)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had a depressive disorder including depression, major depression, dysthymia, or minor depression. (N = 7,237)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 37: Falls Among Adults Aged 45 Years and Older **2020 Michigan BRFS**				
	Fell During the Past 12 Months[a]		**Injured From a Fall During the Past 12 Months**[b]	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**27.3**	**(25.7-29.0)**	**10.5**	**(9.4-11.7)**
Age				
45 - 54	25.9	(22.2-30.0)	11.4	(8.9-14.6)
55 - 64	26.3	(23.4-29.3)	9.8	(8.0-12.0)
65 - 74	29.5	(26.5-32.7)	10.9	(8.9-13.3)
75 +	29.3	(26.0-32.9)	10.2	(8.1-12.8)
Gender				
Male	25.8	(23.3-28.4)	9.1	(7.6-10.9)
Female	28.7	(26.5-30.9)	11.8	(10.2-13.5)
Race/Ethnicity				
White non-Hispanic	27.5	(25.7-29.3)	9.8	(8.7-11.1)
Black non-Hispanic	26.7	(21.6-32.5)	13.9	(10.0-18.9)
Other non-Hispanic	26.3	(18.1-36.4)	17.1	(10.1-27.6)
Hispanic	33.0	(21.5-47.1)	--[c]	--[c]
Respondent Education				
Less than high school	37.8	(29.6-46.7)	16.8	(11.4-24.1)
High school graduate	28.3	(25.3-31.5)	11.0	(8.9-13.5)
Some college	27.1	(24.4-29.9)	10.1	(8.4-12.1)
College graduate	23.1	(21.0-25.3)	8.4	(7.1-9.9)
Household Income				
< $20,000	40.7	(34.9-46.8)	19.6	(14.8-25.5)
$20,000 - $34,999	33.3	(28.9-38.0)	15.3	(11.9-19.4)
$35,000 - $49,999	24.8	(20.8-29.3)	11.5	(8.7-15.0)
$50,000 - $74,999	28.3	(24.4-32.5)	10.0	(7.5-13.1)
$75,000 +	19.9	(17.6-22.5)	5.5	(4.3-7.0)

[a] Among adults aged 45 years and older, the proportion who reported to have unintentionally come to rest on the ground or another lower level during the past 12 months. (N = 4,983)
[b] Among adults aged 45 years and older, the proportion who reported to have been injured due to a fall during the past 12 months. (N = 4,969)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Due to significant BRFSS methodology changes that took place in 2011, the estimates within these tables should not be compared to Michigan BRFSS estimates from prior to 2011.