Prevalence Estimates for Risk Factors and Health Indicators

State of Michigan

Selected Tables

Michigan Behavioral Risk Factor Survey

2019

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

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Table of Contents

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 2019, the total sample size of completed interviews for the core survey was 10,518 (land line = 3,541; cell phone = 6,977). 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 10,518. 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 2019 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 2019 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 2019 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 2011-2018 and not to Michigan BRFSS estimates from years prior to 2011. Due to methodology changes in 2017, Fruit and Vegetable Module data should not be compared to prior years.

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 2019 Michigan BRFS		
	General Health, Fair or Poor[a]	
	%	95% Confidence Interval
Total	**18.9**	**(17.8-19.9)**
Age		
18 – 24	11.5	(8.8-14.9)
25 – 34	14.5	(11.9-17.5)
35 – 44	17.2	(14.4-20.5)
45 – 54	21.5	(18.8-24.4)
55 – 64	23.0	(20.7-25.6)
65 – 74	21.9	(19.7-24.3)
75 +	23.6	(20.9-26.6)
Gender		
Male	18.1	(16.6-19.7)
Female	19.5	(18.2-21.0)
Race/Ethnicity		
White non-Hispanic	17.4	(16.3-18.5)
Black non-Hispanic	26.6	(23.1-30.4)
Other non-Hispanic	17.4	(12.9-22.9)
Hispanic	19.8	(14.7-26.3)
Education		
Less than high school	38.9	(33.3-44.8)
High school graduate	22.6	(20.8-24.6)
Some college	17.3	(15.7-18.9)
College graduate	9.1	(8.1-10.2)
Household Income		
< $20,000	39.5	(35.7-43.4)
$20,000 - $34,999	26.8	(23.8-29.9)
$35,000 - $49,999	15.9	(13.3-18.8)
$50,000 - $74,999	13.2	(11.2-15.6)
$75,000 +	7.9	(6.6-9.3)

[a] Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 10,498)

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
2019 Michigan BRFS

	Poor Physical Health[a]		Poor Mental Health[b]		Activity Limitation[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**13.9**	**(13.0-14.8)**	**16.2**	**(15.2-17.3)**	**9.6**	**(8.8-10.4)**
Age						
18 – 24	6.7	(4.7-9.6)	21.9	(18.5-25.7)	6.2	(4.5-8.5)
25 – 34	8.5	(6.5-11.1)	21.0	(18.0-24.2)	7.6	(5.6-10.1)
35 – 44	11.9	(9.6-14.6)	18.4	(15.7-21.4)	9.4	(7.3-12.0)
45 – 54	17.5	(15.1-20.2)	17.8	(15.3-20.5)	10.9	(9.0-13.2)
55 – 64	17.6	(15.6-19.7)	14.1	(12.3-16.2)	12.6	(10.9-14.6)
65 – 74	16.9	(15.0-19.0)	9.6	(8.1-11.4)	10.3	(8.8-12.1)
75 +	18.3	(15.9-21.1)	8.3	(6.5-10.6)	9.1	(7.5-11.0)
Gender						
Male	12.8	(11.6-14.2)	13.6	(12.3-15.1)	8.3	(7.3-9.4)
Female	14.9	(13.7-16.1)	18.7	(17.3-20.2)	10.8	(9.8-12.0)
Race/Ethnicity						
White non-Hispanic	13.7	(12.7-14.7)	15.7	(14.6-16.8)	9.4	(8.6-10.3)
Black non-Hispanic	14.0	(11.5-17.0)	16.3	(13.4-19.7)	9.4	(7.3-12.1)
Other non-Hispanic	13.0	(9.7-17.2)	17.7	(13.8-22.4)	10.1	(7.2-14.1)
Hispanic	13.3	(9.1-19.0)	19.1	(14.1-25.5)	8.9	(5.7-13.7)
Education						
Less than high school	24.3	(19.6-29.8)	27.5	(22.4-33.2)	18.1	(14.0-23.0)
High school graduate	15.7	(14.2-17.5)	16.4	(14.6-18.2)	10.4	(9.1-11.9)
Some college	13.9	(12.6-15.4)	18.0	(16.3-19.7)	10.0	(8.8-11.2)
College graduate	7.8	(6.9-8.8)	9.7	(8.6-10.9)	5.0	(4.3-5.8)
Household Income						
< $20,000	26.7	(23.5-30.2)	28.3	(24.9-32.0)	23.8	(20.6-27.2)
$20,000 - $34,999	18.5	(16.1-21.2)	21.8	(19.0-24.9)	12.2	(10.1-14.6)
$35,000 - $49,999	12.8	(10.5-15.6)	14.0	(11.6-16.9)	6.8	(5.1-8.9)
$50,000 - $74,999	10.7	(8.9-12.9)	13.1	(10.8-15.7)	7.0	(5.5-8.9)
$75,000 +	6.6	(5.5-7.8)	9.3	(8.0-10.7)	4.0	(3.3-5.0)

[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 = 10,312)
[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 = 10,324)
[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 = 10,413)

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.

	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	**4.4**	**(4.2-4.7)**	**5.0**	**(4.8-5.2)**	**3.0**	**(2.8-3.2)**
Age						
18 - 24	2.8	(2.2-3.4)	7.1	(6.3-7.9)	2.4	(1.9-2.8)
25 - 34	2.9	(2.4-3.5)	6.4	(5.6-7.1)	2.6	(2.0-3.1)
35 - 44	3.8	(3.2-4.4)	5.6	(4.9-6.2)	2.7	(2.2-3.3)
45 - 54	5.3	(4.7-6.0)	5.3	(4.7-5.9)	3.4	(2.8-3.9)
55 - 64	5.5	(5.0-6.1)	4.3	(3.9-4.8)	3.9	(3.4-4.4)
65 - 74	5.2	(4.7-5.8)	3.0	(2.6-3.4)	3.1	(2.7-3.5)
75 +	5.5	(4.8-6.1)	2.7	(2.1-3.2)	2.7	(2.3-3.2)
Gender						
Male	4.1	(3.8-4.5)	4.1	(3.8-4.4)	2.7	(2.4-2.9)
Female	4.7	(4.4-5.0)	5.8	(5.5-6.2)	3.3	(3.1-3.6)
Race/Ethnicity						
White non-Hispanic	4.4	(4.2-4.7)	4.8	(4.6-5.1)	2.9	(2.7-3.2)
Black non-Hispanic	4.5	(3.8-5.2)	4.9	(4.2-5.7)	3.1	(2.5-3.7)
Other non-Hispanic	4.2	(3.3-5.2)	5.8	(4.7-6.9)	3.2	(2.3-4.1)
Hispanic	4.0	(2.8-5.2)	6.1	(4.7-7.5)	3.1	(2.1-4.2)
Education						
Less than high school	7.1	(5.9-8.3)	7.7	(6.4-9.0)	5.0	(3.9-6.1)
High school graduate	4.8	(4.4-5.3)	5	(4.6-5.5)	3.2	(2.9-3.6)
Some college	4.5	(4.2-4.9)	5.4	(5.0-5.8)	3.1	(2.8-3.4)
College graduate	2.8	(2.6-3.1)	3.4	(3.2-3.7)	1.9	(1.7-2.1)
Household Income						
< $20,000	7.7	(6.9-8.6)	8.1	(7.2-9.0)	6.9	(6.1-7.7)
$20,000 - $34,999	5.7	(5.1-6.3)	6.4	(5.7-7.1)	3.6	(3.1-4.1)
$35,000 - $49,999	4.3	(3.6-4.9)	4.6	(4.0-5.2)	2.3	(1.9-2.7)
$50,000 - $74,999	3.8	(3.2-4.3)	4.2	(3.6-4.8)	2.3	(1.9-2.8)
$75,000 +	2.5	(2.2-2.7)	3.1	(2.8-3.4)	1.5	(1.3-1.7)

Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations
2019 Michigan BRFS

[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 = 10,312)
[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 = 10,324)
[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 = 10,413)

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		
2019 Michigan BRFS		
	Total Disability[a]	
	%	**95% Confidence Interval**
Total	**30.4**	**(29.2-31.6)**
Age		
18 - 24	24.3	(20.4-28.7)
25 - 34	22.3	(19.3-25.7)
35 - 44	22.6	(19.6-25.9)
45 - 54	28.8	(25.8-31.9)
55 - 64	34.8	(32.2-37.6)
65 - 74	35.9	(33.4-38.5)
75 +	53.0	(49.7-56.3)
Gender		
Male	28.7	(27.0-30.5)
Female	32.1	(30.5-33.7)
Race/Ethnicity		
White non-Hispanic	29.4	(28.1-30.7)
Black non-Hispanic	33.2	(29.3-37.3)
Other non-Hispanic	24.7	(20.2-29.8)
Hispanic	39.6	(32.3-47.4)
Education		
Less than high school	53.5	(47.4-59.6)
High school graduate	35.1	(32.9-37.4)
Some college	30.1	(28.2-32.1)
College graduate	17.0	(15.7-18.4)
Household Income		
< $20,000	56.4	(52.5-60.3)
$20,000 - $34,999	42.2	(38.9-45.5)
$35,000 - $49,999	29.7	(26.3-33.3)
$50,000 - $74,999	23.5	(20.8-26.4)
$75,000 +	14.4	(12.9-16.1)

[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 = 10,198)

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
2019 Michigan BRFS

	Obese[a]		Overweight[b]		Healthy Weight[c]		Underweight[d]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**36.0**	**(34.7-37.3)**	**34.3**	**(33.1-35.6)**	**28.0**	**(26.8-29.3)**	**1.6**	**(1.3-2.0)**
Age								
18 - 24	20.0	(16.4-24.1)	28.4	(24.4-32.8)	48.7	(44.1-53.3)	2.9	(1.8-4.7)
25 - 34	33.9	(30.4-37.6)	32.7	(29.3-36.3)	30.6	(27.2-34.2)	2.7	(1.7-4.4)
35 - 44	37.3	(33.8-40.9)	35.5	(32.0-39.1)	26.7	(23.5-30.1)	--[e]	--[e]
45 - 54	43.9	(40.6-47.2)	34.3	(31.2-37.5)	20.4	(17.9-23.2)	1.4	(0.8-2.5)
55 - 64	43.1	(40.3-46.0)	33.8	(31.2-36.5)	21.5	(19.4-23.9)	1.5	(0.9-2.6)
65 - 74	38.6	(36.0-41.3)	38.0	(35.5-40.7)	22.4	(20.2-24.7)	1.0	(0.6-1.6)
75 +	28.3	(25.4-31.5)	38.8	(35.5-42.1)	31.5	(28.5-34.7)	1.4	(0.8-2.3)
Gender								
Male	34.8	(33.0-36.7)	38.4	(36.6-40.3)	25.4	(23.7-27.2)	1.3	(0.9-1.9)
Female	37.1	(35.4-38.9)	30.2	(28.6-31.8)	30.7	(29.1-32.4)	2.0	(1.5-2.6)
Race/Ethnicity								
White non-Hispanic	35.0	(33.6-36.4)	35.0	(33.6-36.4)	28.3	(27.0-29.6)	1.7	(1.4-2.2)
Black non-Hispanic	43.8	(39.6-48.1)	30.8	(27.0-34.9)	23.4	(19.8-27.4)	--[e]	--[e]
Other non-Hispanic	23.3	(18.8-28.4)	31.0	(25.6-36.8)	44.6	(38.5-50.9)	--[e]	--[e]
Hispanic	46.1	(38.6-53.8)	33.7	(26.9-41.1)	20.0	(14.4-27.2)	--[e]	--[e]
Education								
< High school	39.6	(33.7-45.8)	27.6	(22.5-33.5)	29.2	(23.9-35.3)	3.5	(2.0-6.2)
High school graduate	38.1	(35.7-40.5)	34.4	(32.1-36.8)	25.5	(23.4-27.7)	2.0	(1.4-3.0)
Some college	37.3	(35.2-39.5)	34.6	(32.5-36.7)	26.7	(24.7-28.8)	1.4	(1.0-2.0)
College graduate	30.4	(28.7-32.3)	36.5	(34.7-38.5)	32.2	(30.3-34.1)	0.9	(0.6-1.3)
Household Income								
< $20,000	44.6	(40.7-48.7)	24.1	(21.0-27.5)	28.3	(24.5-32.3)	3.0	(2.0-4.5)
$20,000 - $34,999	39.4	(36.1-42.7)	34.4	(31.3-37.7)	23.7	(21.1-26.6)	2.5	(1.5-4.0)
$35,000 - $49,999	35.0	(31.4-38.7)	38.3	(34.6-42.1)	25.9	(22.8-29.4)	--[e]	--[e]
$50,000 - $74,999	36.9	(33.7-40.3)	35.7	(32.4-39.0)	26.5	(23.6-29.6)	--[e]	--[e]
$75,000 +	32.3	(30.2-34.5)	37.6	(35.4-39.8)	29.4	(27.2-31.6)	0.8	(0.5-1.4)

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 = 9,857)
[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.

8

Table 6: Health Care Coverage 2019 Michigan BRFS		
	No Health Care Coverage[a] (Among 18 - 64 year olds)	
	%	95% Confidence Interval
Total	**11.1**	**(10.1-12.2)**
Age		
18 - 24	14.2	(11.3-17.7)
25 - 34	14.0	(11.6-16.9)
35 - 44	10.4	(8.3-12.9)
45 - 54	10.5	(8.4-12.9)
55 - 64	7.4	(6.0-9.1)
65 - 74	--[b]	--[b]
75 +	--[b]	--[b]
Gender		
Male	13.0	(11.5-14.7)
Female	9.2	(8.0-10.7)
Race/Ethnicity		
White non-Hispanic	9.5	(8.4-10.7)
Black non-Hispanic	13.2	(10.3-16.9)
Other non-Hispanic	11.1	(8.1-15.2)
Hispanic	24.1	(17.9-31.6)
Education		
Less than high school	23.4	(18.0-29.9)
High school graduate	13.4	(11.5-15.6)
Some college	9.8	(8.3-11.5)
College graduate	5.7	(4.7-6.9)
Household Income		
< $20,000	15.0	(11.9-18.7)
$20,000 - $34,999	17.6	(14.5-21.2)
$35,000 - $49,999	14.5	(11.4-18.4)
$50,000 - $74,999	8.6	(6.4-11.5)
$75,000 +	4.9	(3.8-6.2)

[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 = 6,462)
[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.

9

Table 7: Health Care Coverage Type[a]											
2019 Michigan BRFS											
	Private Insurance		**Medicaid Only**		**Medicare Only**		**Both Medicaid and Medicare**		**Healthy Michigan Plan**		**No Health Care Coverage**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**51.1**	**(49.8-52.4)**	**9.4**	**(8.6-10.3)**	**22.4**	**(21.5-23.3)**	**5.0**	**(4.5-5.7)**	**2.5**	**(2.1-3.0)**	**9.6**	**(8.7-10.5)**
Age											
18 - 24	60.8	(55.8-65.5)	14.2	(11.0-18.2)	--[b]	--[b]	--[b]	--[b]	2.4	(1.4-4.1)	17.1	(13.7-21.2)
25 - 34	59.5	(55.7-63.3)	14.8	(12.3-17.7)	2.7	(1.6-4.7)	3.8	(2.4-6.2)	3.9	(2.7-5.5)	15.2	(12.6-18.3)
35 - 44	65.3	(61.6-68.8)	13.8	(11.4-16.5)	4.6	(3.0-7.1)	2.8	(1.9-4.1)	2.6	(1.7-4.0)	10.9	(8.8-13.5)
45 - 54	68.3	(65.0-71.4)	10.2	(8.3-12.5)	3.4	(2.5-4.7)	3.9	(2.8-5.5)	3.2	(2.2-4.6)	10.9	(8.8-13.5)
55 - 64	66.8	(64.0-69.4)	6.8	(5.5-8.5)	10.8	(9.2-12.7)	4.1	(3.1-5.4)	3.7	(2.7-5.2)	7.8	(6.3-9.5)
65 - 74	7.5	(6.1-9.2)	2.1	(1.4-3.0)	80.0	(77.5-82.2)	8.0	(6.7-9.7)	--[b]	--[b]	2.3	(1.4-3.7)
75 +	4.1	(3.0-5.7)	2.6	(1.5-4.5)	78.2	(74.8-81.2)	13.2	(10.6-16.2)	--[b]	--[b]	1.7	(1.0-3.0)
Gender											
Male	53.7	(51.7-55.7)	6.4	(5.4-7.5)	20.6	(19.2-22.1)	5.5	(4.6-6.6)	2.2	(1.7-2.9)	11.6	(10.3-13.0)
Female	48.6	(46.8-50.4)	12.3	(11.1-13.7)	24.1	(22.8-25.3)	4.6	(3.9-5.3)	2.7	(2.2-3.4)	7.7	(6.7-8.9)
Race/Ethnicity											
White non-Hispanic	53.8	(52.4-55.3)	7.3	(6.5-8.1)	24.5	(23.5-25.5)	4.3	(3.8-5.0)	2.1	(1.8-2.6)	7.9	(7.1-8.9)
Black non-Hispanic	39.5	(35.4-43.7)	18.6	(15.5-22.1)	16.4	(13.8-19.4)	9.5	(7.2-12.4)	4.2	(2.8-6.4)	11.8	(9.2-15.0)
Other non-Hispanic	57.6	(51.4-63.6)	12.5	(9.0-17.1)	12.9	(9.4-17.3)	3.3	(1.8-5.9)	--[b]	--[b]	12.4	(9.1-16.6)
Hispanic	35.7	(28.8-43.3)	18.5	(13.2-25.3)	13.9	(8.7-21.5)	--[b]	--[b]	--[b]	--[b]	24.8	(18.5-32.3)
Education											
< High school	23.4	(18.2-29.6)	19.5	(15.1-24.9)	18.8	(14.6-23.9)	13.6	(9.9-18.5)	--[b]	--[b]	22.0	(17.2-27.6)
High school	39.8	(37.4-42.3)	13.1	(11.5-15.0)	25.3	(23.5-27.3)	6.7	(5.7-7.9)	3.7	(2.8-4.8)	11.4	(9.8-13.1)
Some college	55.0	(52.8-57.2)	8.4	(7.3-9.8)	21.9	(20.4-23.5)	3.9	(3.2-4.8)	2.4	(1.8-3.2)	8.3	(7.1-9.8)
College graduate	68.1	(66.3-69.7)	3.1	(2.5-3.9)	21.1	(19.8-22.4)	1.6	(1.2-2.2)	1.2	(0.9-1.8)	4.8	(4.0-5.8)
Household Income											
< $20,000	12.6	(10.0-15.7)	30.1	(26.5-34.0)	20.0	(17.0-23.4)	16.4	(13.6-19.6)	7.2	(5.5-9.5)	13.7	(11.0-16.9)
$20,000 - $34,999	28.0	(24.9-31.3)	15.3	(12.9-18.2)	31.7	(28.9-34.6)	6.3	(4.9-8.0)	5.3	(3.9-7.1)	13.5	(11.2-16.2)
$35,000 - $49,999	45.2	(41.4-49.2)	8.3	(6.1-11.1)	31.6	(28.4-35.0)	2.8	(1.9-4.2)	1.4	(0.7-2.5)	10.7	(8.4-13.6)
$50,000 - $74,999	64.4	(61.2-67.5)	2.1	(1.3-3.4)	23.1	(20.8-25.6)	1.7	(1.1-2.6)	--[b]	--[b]	7.3	(5.5-9.7)
$75,000 +	82.1	(80.4-83.6)	--[b]	--[b]	12.1	(10.9-13.3)	--[b]	--[b]	--[b]	--[b]	4.6	(3.6-5.8)

[a] Among all adults, the proportion who reported currently having each of the above health care coverage types. (N = 9,878)
[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.

10

Table 8: Health Care Access 2019 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**	**(13.6-15.6)**	**11.7**	**(10.8-12.6)**
Age				
18 - 24	28.9	(25.0-33.2)	12.4	(9.6-16.0)
25 - 34	28.5	(25.2-32.0)	16.0	(13.4-18.9)
35 - 44	17.1	(14.4-20.2)	14.0	(11.6-16.8)
45 - 54	11.1	(9.1-13.5)	14.3	(12.1-16.9)
55 - 64	6.5	(5.3-8.0)	11.3	(9.7-13.1)
65 - 74	4.3	(3.2-5.8)	5.4	(4.3-6.7)
75 +	3.6	(2.4-5.3)	5.2	(4.0-6.8)
Gender				
Male	19.5	(17.9-21.2)	10.9	(9.7-12.3)
Female	9.9	(8.8-11.1)	12.4	(11.3-13.7)
Race/Ethnicity				
White non-Hispanic	12.5	(11.5-13.6)	10.6	(9.7-11.6)
Black non-Hispanic	19.0	(15.7-22.8)	13.2	(10.7-16.3)
Other non-Hispanic	19.8	(15.7-24.6)	16.4	(12.5-21.3)
Hispanic	30.1	(23.3-38.0)	16.0	(10.9-22.9)
Education				
Less than high school	25.5	(20.3-31.5)	17.4	(13.2-22.5)
High school graduate	16.6	(14.8-18.6)	12.7	(11.1-14.4)
Some college	13.0	(11.6-14.6)	12.5	(11.1-14.1)
College graduate	10.2	(9.0-11.5)	7.3	(6.3-8.4)
Household Income				
< $20,000	21.4	(18.1-25.2)	18.8	(15.8-22.1)
$20,000 - $34,999	19.2	(16.4-22.3)	20.1	(17.4-23.0)
$35,000 - $49,999	13.1	(10.5-16.3)	13.8	(11.3-16.8)
$50,000 - $74,999	14.6	(12.2-17.4)	10.2	(8.2-12.6)
$75,000 +	9.2	(7.9-10.7)	5.0	(4.1-6.2)

[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 = 10,452)
[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 = 10,485)

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: No Leisure Time Physical Activity
2019 Michigan BRFS

	No Leisure Time Physical Activity[a]	
	%	**95% Confidence Interval**
Total	**25.4**	**(24.3-26.6)**
Age		
18 – 24	18.9	(15.5-23.0)
25 – 34	20.8	(17.9-24.0)
35 – 44	21.3	(18.2-24.6)
45 – 54	27.1	(24.2-30.3)
55 – 64	29.9	(27.3-32.6)
65 – 74	27.4	(25.1-29.9)
75 +	35.9	(32.7-39.2)
Gender		
Male	24.9	(23.2-26.7)
Female	25.9	(24.4-27.4)
Race/Ethnicity		
White non-Hispanic	23.8	(22.6-25.1)
Black non-Hispanic	34.4	(30.5-38.5)
Other non-Hispanic	25.9	(20.7-31.9)
Hispanic	21.5	(16.2-28.0)
Education		
Less than high school	39.2	(33.5-45.3)
High school graduate	32.9	(30.6-35.1)
Some college	23.9	(22.0-25.8)
College graduate	14.2	(12.9-15.5)
Household Income		
< $20,000	39.6	(35.7-43.5)
$20,000 - $34,999	32.1	(29.0-35.3)
$35,000 - $49,999	27.8	(24.5-31.4)
$50,000 - $74,999	22.6	(19.9-25.6)
$75,000 +	14.7	(13.1-16.5)

[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 = 10,194)

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: Aerobic Physical Activity and Muscle Strengthening 2019 Michigan BRFS				
	Adequate Aerobic Physical Activity (≥ 150 minutes / week)[a]		**Adequate Muscle Strengthening (≥ 2 days / week)[b]**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**46.7**	**(45.4-48.0)**	**32.8**	**(31.6-34.0)**
Age				
18 – 24	48.0	(43.5-52.5)	40.5	(36.2-45.0)
25 – 34	48.2	(44.5-51.9)	33.5	(30.2-37.0)
35 – 44	46.6	(43.0-50.2)	32.5	(29.3-35.9)
45 – 54	46.2	(43.1-49.5)	30.8	(27.9-33.8)
55 – 64	46.6	(43.8-49.3)	29.8	(27.4-32.3)
65 – 74	51.2	(48.6-53.8)	31.9	(29.6-34.4)
75 +	43.2	(40.0-46.4)	32.0	(29.0-35.2)
Gender				
Male	48.0	(46.1-49.9)	35.7	(33.9-37.6)
Female	45.5	(43.8-47.2)	30.1	(28.5-31.7)
Race/Ethnicity				
White non-Hispanic	49.7	(48.2-51.1)	32.7	(31.4-34.0)
Black non-Hispanic	36.4	(32.5-40.4)	34.2	(30.4-38.3)
Other non-Hispanic	41.9	(36.3-47.7)	34.1	(29.0-39.7)
Hispanic	39.4	(32.7-46.6)	32.7	(26.7-39.5)
Education				
Less than high school	35.1	(29.5-41.1)	28.6	(23.4-34.3)
High school graduate	42.4	(40.1-44.8)	31.5	(29.3-33.8)
Some college	48.0	(45.8-50.2)	32.1	(30.1-34.1)
College graduate	54.5	(52.6-56.4)	37.1	(35.3-39.0)
Household Income				
< $20,000	35.8	(32.1-39.5)	33.1	(29.6-36.9)
$20,000 - $34,999	43.1	(39.9-46.3)	30.3	(27.4-33.3)
$35,000 - $49,999	47.2	(43.4-51.0)	28.7	(25.4-32.3)
$50,000 - $74,999	50.1	(46.7-53.4)	35.5	(32.3-38.8)
$75,000 +	56.8	(54.6-59.1)	37.6	(35.4-39.8)

[a] Among all adults, the proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities. (N = 10,518)
[b] Among all adults, the proportion who reported that they do muscle strengthening activities on two or more days per week. (N = 10,518)

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 11: Adequate Physical Activity 2019 Michigan BRFS		
Demographic Characteristics	**Adequate Physical Activity[a]**	
	%	**95% Confidence Interval**
Total	**20.8**	**(19.8-21.8)**
Age		
18 - 24	24.8	(21.1-28.9)
25 - 34	21.0	(18.2-24.2)
35 - 44	21.0	(18.2-24.0)
45 - 54	20.4	(17.9-23.1)
55 - 64	19.7	(17.7-21.9)
65 - 74	21.3	(19.3-23.4)
75 +	19.5	(17.1-22.2)
Gender		
Male	21.8	(20.3-23.3)
Female	19.8	(18.5-21.3)
Race/Ethnicity		
White/Non-Hispanic	10.3	(9.5-11.2)
Black/Non-Hispanic	12.1	(9.6-15.2)
Other/Non-Hispanic	10.8	(8.1-14.3)
Hispanic	12.7	(9.0-17.6)
Education		
Less than high school	17.0	(12.8-22.1)
High school graduate	19.4	(17.5-21.4)
Some college	20.4	(18.7-22.2)
College graduate	24.4	(22.8-26.1)
Household Income		
< $20,000	17.5	(14.8-20.5)
$20,000 - $34,999	18.8	(16.4-21.5)
$35,000 - $49,999	19.1	(16.2-22.4)
$50,000 - $74,999	22.8	(20.0-25.7)
$75,000 +	25.8	(23.9-27.9)
[a] Among all adults, the proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities **and** also participate in muscle strengthening activities on two or more days per week. (N = 10,518)		

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: Fruit and Vegetable Consumption
2019 Michigan BRFS

	Fruits (at least 1 / day)[a]		Vegetables (at least 1 / day)[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**59.9**	**(58.5-61.2)**	**79.3**	**(78.2-80.4)**
Age				
18 – 24	54.5	(49.8-59.2)	71.7	(67.1-75.8)
25 – 34	52.5	(48.7-56.3)	78.5	(75.1-81.5)
35 – 44	59.7	(55.9-63.3)	83.0	(80.0-85.7)
45 – 54	57.2	(53.9-60.5)	78.9	(76.0-81.4)
55 – 64	62.8	(60.0-65.6)	80.8	(78.4-83.0)
65 – 74	64.5	(61.9-67.0)	80.7	(78.5-82.8)
75 +	72.7	(69.4-75.8)	80.3	(77.1-83.2)
Gender				
Male	56.1	(54.1-58.1)	75.2	(73.4-76.9)
Female	63.5	(61.7-65.2)	83.2	(81.8-84.5)
Race/Ethnicity				
White non-Hispanic	60.4	(59.0-61.9)	80.4	(79.2-81.6)
Black non-Hispanic	59.0	(54.6-63.2)	70.9	(66.7-74.8)
Other non-Hispanic	59.6	(53.3-65.7)	84.3	(79.5-88.2)
Hispanic	53.8	(46.1-61.4)	76.8	(69.1-83.0)
Education				
Less than high school	51.3	(45.0-57.6)	72.0	(65.7-77.4)
High school graduate	55.7	(53.2-58.2)	75.6	(73.4-77.7)
Some college	59.3	(57.0-61.5)	81.4	(79.5-83.1)
College graduate	68.2	(66.3-70.1)	83.1	(81.6-84.6)
Household Income				
< $20,000	53.1	(49.0-57.2)	71.2	(67.2-74.9)
$20,000 - $34,999	56.4	(53.0-59.7)	75.9	(72.8-78.7)
$35,000 - $49,999	58.3	(54.3-62.1)	80.6	(77.2-83.5)
$50,000 - $74,999	60.2	(56.7-63.5)	81.0	(78.1-83.6)
$75,000 +	64.6	(62.3-66.8)	84.4	(82.7-86.0)

[a] Among all adults, the proportion who reported consuming at least one fruit per day (N = 9,764).
[b] Among all adults, the proportion who reported consuming at least one vegetable per day. (N = 10,035),

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.   15

Table 13: Cigarette Smoking
2019 Michigan BRFS

	Current Smoking[a]		Former Smoking[b]		Never Smoked	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**18.7**	**(17.6-19.8)**	**26.5**	**(25.5-27.7)**	**54.8**	**(53.5-56.1)**
Age						
18 – 24	11.1	(8.2-14.9)	6.4	(4.6-9.0)	82.5	(78.4-85.9)
25 – 34	25.7	(22.5-29.3)	19.3	(16.6-22.4)	54.9	(51.2-58.6)
35 – 44	24.5	(21.4-27.8)	25.2	(22.3-28.4)	50.3	(46.7-54.0)
45 – 54	24.1	(21.3-27.2)	21.3	(18.8-24.1)	54.5	(51.3-57.8)
55 – 64	19.7	(17.5-22.2)	33.0	(30.4-35.7)	47.3	(44.5-50.0)
65 – 74	12.4	(10.7-14.3)	40.9	(38.3-43.5)	46.7	(44.1-49.3)
75 +	6.1	(4.4-8.5)	43.7	(40.4-47.0)	50.2	(46.8-53.5)
Gender						
Male	20.2	(18.5-21.9)	29.7	(28.0-31.4)	50.1	(48.2-52.1)
Female	17.2	(15.9-18.7)	23.5	(22.1-25.0)	59.2	(57.5-61.0)
Race/Ethnicity						
White non-Hispanic	17.8	(16.7-19.1)	29.4	(28.2-30.7)	52.7	(51.3-54.2)
Black non-Hispanic	21.9	(18.5-25.8)	16.5	(13.7-19.9)	61.5	(57.3-65.6)
Other non-Hispanic	18.0	(14.0-22.8)	15.1	(11.8-19.2)	66.9	(61.4-72.0)
Hispanic	24.7	(18.4-32.4)	18.2	(13.2-24.5)	57.1	(49.5-64.4)
Education						
Less than high school	38.0	(32.2-44.2)	25.2	(20.5-30.5)	36.8	(30.9-43.1)
High school graduate	23.7	(21.7-25.9)	29.0	(26.9-31.2)	47.3	(44.9-49.7)
Some college	18.0	(16.3-19.7)	27.6	(25.8-29.5)	54.4	(52.3-56.6)
College graduate	6.9	(6.0-8.0)	23.0	(21.4-24.6)	70.1	(68.3-71.8)
Household Income						
< $20,000	37.1	(33.2-41.2)	22.0	(18.9-25.4)	40.9	(37.1-44.8)
$20,000 - $34,999	22.4	(19.8-25.3)	28.5	(25.7-31.5)	49.1	(45.8-52.4)
$35,000 - $49,999	20.8	(17.5-24.5)	27.6	(24.6-30.9)	51.5	(47.7-55.4)
$50,000 - $74,999	15.3	(12.9-18.1)	31.0	(28.1-34.1)	53.6	(50.3-57.0)
$75,000 +	10.4	(9.0-12.0)	25.8	(23.9-27.8)	63.7	(61.5-65.9)

[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 = 10,181)
[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 = 10,181)

Due to significant BRFSS methodology changes that took place in 2011, the estimates within   16
these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 14: Current Smokers Who Attempted to Quit
2019 Michigan BRFS

	Tried to Quit Smoking One Day or Longer in Past Year[a]	
	%	95% Confidence Interval
Total	**59.1**	**(55.8-62.3)**
Age		
18 – 24	63.4	(46.6-77.5)
25 – 34	57.3	(49.3-64.9)
35 – 44	61.2	(53.7-68.3)
45 – 54	59.9	(52.5-66.8)
55 – 64	57.3	(50.4-63.9)
65 – 74	61.5	(53.8-68.7)
75 +	48.4	(31.8-65.3)
Gender		
Male	58.7	(53.9-63.3)
Female	59.5	(54.9-64.0)
Race/Ethnicity		
White non-Hispanic	55.9	(52.1-59.7)
Black non-Hispanic	68.7	(59.1-77.0)
Other non-Hispanic	62.3	(49.7-73.4)
Hispanic	70.4	(54.0-82.8)
Education		
Less than high school	51.4	(41.3-61.4)
High school graduate	60.0	(54.8-64.9)
Some college	63.3	(58.2-68.0)
College graduate	57.0	(49.5-64.1)
Household Income		
< $20,000	62.5	(55.4-69.1)
$20,000 - $34,999	63.9	(57.1-70.3)
$35,000 - $49,999	51.3	(41.5-61.0)
$50,000 - $74,999	62.4	(53.2-70.7)
$75,000 +	58.0	(50.4-65.2)

[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 = 1,546)

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: E-Cigarette Use 2019 Michigan BRFS		
	Current E-Cigarette Use[a]	
	%	**95% Confidence Interval**
Total	**6.8**	**(5.8-7.8)**
Age		
18 – 24	18.8	(14.4-24.2)
25 – 34	10.3	(7.5-14.1)
35 – 44	6.8	(4.7-9.7)
45 – 54	5.9	(4.1-8.5)
55 – 64	2.8	(1.8-4.2)
65 – 74	3.3	(2.2-4.8)
75 +	--[b]	--[b]
Gender		
Male	8.8	(7.3-10.6)
Female	4.8	(3.9-6.1)
Race/Ethnicity		
White non-Hispanic	6.5	(5.5-7.7)
Black non-Hispanic	5.5	(3.3-8.9)
Other non-Hispanic	7.4	(4.3-12.6)
Hispanic	13.1	(7.3-22.4)
Education		
Less than high school	10.3	(6.0-17.1)
High school graduate	8.6	(6.8-10.9)
Some college	7.5	(6.1-9.3)
College graduate	2.6	(1.9-3.5)
Household Income		
< $20,000	6.6	(4.4-9.6)
$20,000 - $34,999	7.9	(5.6-11.1)
$35,000 - $49,999	7.5	(4.9-11.3)
$50,000 - $74,999	8.0	(5.8-10.8)
$75,000 +	4.7	(3.4-6.5)

[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 = 6,108)
[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 16: Smokeless Tobacco Use
2019 Michigan BRFS

	Current Smokeless Tobacco Use[a]	
	%	**95% Confidence Interval**
Total	**3.7**	**(3.2-4.2)**
Age		
18 – 24	5.4	(3.6-7.9)
25 – 34	6.0	(4.4-8.0)
35 – 44	4.7	(3.4-6.5)
45 – 54	3.2	(2.3-4.4)
55 – 64	2.9	(2.0-4.3)
65 – 74	1.5	(1.0-2.3)
75 +	--[b]	--[b]
Gender		
Male	6.2	(5.3-7.3)
Female	1.2	(0.9-1.8)
Race/Ethnicity		
White non-Hispanic	3.7	(3.2-4.4)
Black non-Hispanic	--[b]	--[b]
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education		
Less than high school	6.6	(4.2-10.2)
High school graduate	4.4	(3.5-5.6)
Some college	3.4	(2.6-4.4)
College graduate	2.1	(1.6-2.8)
Household Income		
< $20,000	4.5	(3.0-6.7)
$20,000 - $34,999	3.2	(2.3-4.4)
$35,000 - $49,999	4.3	(2.8-6.7)
$50,000 - $74,999	3.9	(2.7-5.6)
$75,000 +	3.6	(2.8-4.7)

[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 = 10,233)
[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 17: Hookah Use
2019 Michigan BRFS

	Current Hookah Use[a]	
	%	95% Confidence Interval
Total	**3.7**	**(3.0-4.5)**
Age		
18 – 24	9.0	(6.0-13.2)
25 – 34	5.3	(3.5-8.0)
35 – 44	4.4	(2.7-7.2)
45 – 54	3.3	(2.0-5.6)
55 – 64	1.8	(1.1-2.9)
65 – 74	1.7	(1.0-2.9)
75 +	--[b]	--[b]
Gender		
Male	4.6	(3.6-5.9)
Female	2.9	(2.1-3.9)
Race/Ethnicity		
White non-Hispanic	3.0	(2.4-3.8)
Black non-Hispanic	5.9	(3.6-9.7)
Other non-Hispanic	7.1	(4.0-12.3)
Hispanic	--[b]	--[b]
Education		
Less than high school	--[b]	--[b]
High school graduate	4.5	(3.3-6.2)
Some college	3.5	(2.6-4.8)
College graduate	2.3	(1.6-3.3)
Household Income		
< $20,000	5.0	(3.1-8.0)
$20,000 - $34,999	5.9	(3.9-8.9)
$35,000 - $49,999	--[b]	--[b]
$50,000 - $74,999	3.5	(2.3-5.4)
$75,000 +	2.9	(1.9-4.3)

[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 = 6,113)
[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 18: Alcohol Consumption
2019 Michigan BRFS

	Any Alcohol in Past Month[a]		Heavy Drinking[b]		Binge Drinking[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**56.7**	**(55.4-58.0)**	**6.2**	**(5.6-6.9)**	**17.9**	**(16.9-19.0)**
Age						
18 – 24	54.8	(50.2-59.4)	5.9	(4.1-8.4)	23.6	(20.2-27.5)
25 – 34	67.6	(63.9-71.0)	8.1	(6.4-10.2)	30.4	(27.1-33.9)
35 – 44	60.1	(56.3-63.6)	7.3	(5.6-9.4)	23.6	(20.7-26.7)
45 – 54	60.9	(57.6-64.0)	6.2	(4.7-8.1)	16.7	(14.4-19.3)
55 – 64	56.1	(53.3-58.9)	6.6	(5.4-8.1)	14.2	(12.3-16.4)
65 – 74	51.5	(48.9-54.2)	5.5	(4.4-6.9)	8.7	(7.2-10.5)
75 +	37.7	(34.6-40.9)	2.1	(1.4-3.2)	3.2	(2.1-4.7)
Gender						
Male	61.5	(59.5-63.4)	6.7	(5.7-7.7)	22.7	(21.2-24.4)
Female	52.2	(50.5-54.0)	5.9	(5.1-6.7)	13.4	(12.2-14.7)
Race/Ethnicity						
White non-Hispanic	58.8	(57.4-60.2)	6.8	(6.1-7.6)	18.5	(17.4-19.7)
Black non-Hispanic	51.2	(47.0-55.4)	3.4	(2.2-5.3)	14.5	(11.6-17.9)
Other non-Hispanic	45.6	(39.7-51.7)	4.1	(2.4-6.9)	14.8	(11.1-19.4)
Hispanic	55.2	(47.6-62.6)	6.6	(3.7-11.3)	22.6	(17.0-29.4)
Education						
Less than high school	39.1	(33.2-45.3)	--[d]	--[d]	14.4	(10.7-19.2)
High school graduate	48.9	(46.5-51.3)	6.2	(5.2-7.5)	17.1	(15.3-19.1)
Some college	59.1	(57.0-61.3)	6.7	(5.7-8.0)	19.4	(17.6-21.3)
College graduate	68.7	(66.9-70.5)	6.4	(5.5-7.5)	18.3	(16.8-19.9)
Household Income						
< $20,000	39.9	(36.0-43.8)	5.5	(3.9-7.7)	14.0	(11.5-17.0)
$20,000 - $34,999	47.9	(44.6-51.2)	5.4	(4.1-7.0)	14.9	(12.7-17.5)
$35,000 - $49,999	55.8	(52.0-59.6)	7.7	(5.9-10.0)	17.8	(14.9-21.0)
$50,000 - $74,999	62.7	(59.3-65.9)	7.5	(5.9-9.6)	20.0	(17.3-23.1)
$75,000 +	71.7	(69.5-73.7)	7.0	(5.9-8.2)	23.4	(21.5-25.4)

[a] Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month. (N = 10,164)
[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 = 10,072)
[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 = 10,082)
[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.   21

Table 19: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers
2019 Michigan BRFS

	Number of Binge Drinking Occasions[a]	
	Mean	**95% Confidence Interval**
Total	**4.7**	**(4.3-5.1)**
Age		
18 – 24	3.9	(3.1-4.7)
25 – 34	4.2	(3.5-5.0)
35 – 44	5.1	(4.1-6.1)
45 – 54	4.3	(3.4-5.2)
55 – 64	6.2	(4.8-7.5)
65 – 74	4.3	(3.3-5.3)
75+	5.8	(2.8-8.8)
Gender		
Male	5.0	(4.5-5.5)
Female	4.2	(3.6-4.8)
Race/Ethnicity		
White non-Hispanic	4.7	(4.2-5.1)
Black non-Hispanic	4.8	(3.1-6.4)
Other non-Hispanic	5.1	(3.5-6.8)
Hispanic	4.2	(2.5-5.9)
Education		
Less than high school	5.5	(3.3-7.6)
High school graduate	5.6	(4.7-6.5)
Some college	4.5	(3.9-5.1)
College graduate	3.9	(3.4-4.4)
Household Income		
< $20,000	5.8	(4.2-7.4)
$20,000 - $34,999	4.7	(3.7-5.8)
$35,000 - $49,999	6.1	(4.9-7.4)
$50,000 - $74,999	4.3	(3.4-5.2)
$75,000 +	3.8	(3.3-4.2)

[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 = 1,507)

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 20: Hypertension Awareness and Medication Use 2019 Michigan BRFS				
Demographic Characteristics	**Ever Told HBP[a]**		**Taking BP Medication[b]**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**35.1**	**(33.9-36.3)**	**76.3**	**(74.4-78.2)**
Age				
18 – 24	6.0	(4.2-8.5)	--[c]	--[c]
25 – 34	15.4	(12.8-18.3)	22.3	(15.6-30.8)
35 – 44	22.1	(19.2-25.4)	47.7	(39.7-55.9)
45 – 54	39.1	(35.9-42.3)	76.3	(71.3-80.7)
55 – 64	49.6	(46.9-52.4)	82.1	(78.8-85.0)
65 – 74	57.9	(55.3-60.5)	92.0	(89.9-93.7)
75 +	62.3	(59.0-65.5)	22.3	(15.6-30.8)
Gender				
Male	37.7	(35.9-39.6)	72.5	(69.6-75.2)
Female	32.6	(31.1-34.2)	80.5	(77.9-82.9)
Race/Ethnicity				
White non-Hispanic	35.2	(33.9-36.5)	78.2	(76.1-80.1)
Black non-Hispanic	42.7	(38.7-46.8)	74.9	(69.0-80.1)
Other non-Hispanic	24.4	(19.8-29.7)	68.8	(57.7-78.2)
Hispanic	26.8	(20.8-33.7)	53.3	(39.2-67.0)
Education				
Less than high school	42.3	(36.6-48.3)	64.0	(54.9-72.2)
High school graduate	37.3	(35.1-39.5)	80.9	(77.8-83.6)
Some college	35.4	(33.4-37.4)	76.2	(73.0-79.2)
College graduate	29.6	(27.9-31.3)	76.7	(73.6-79.5)
Household Income				
< $20,000	41.9	(38.2-45.8)	72.2	(66.2-77.4)
$20,000 - $34,999	39.0	(35.9-42.2)	76.2	(71.1-80.5)
$35,000 - $49,999	36.5	(33.1-40.1)	81.7	(76.6-85.9)
$50,000 - $74,999	36.3	(33.2-39.6)	76.1	(70.8-80.6)
$75,000 +	28.7	(26.8-30.7)	75.4	(71.6-78.8)

[a] Among all adults, the proportion who reported that they were ever told by a doctor that they had high blood pressure (HBP). Women who had HBP only during pregnancy and adults who were borderline hypertensive were considered to not have been diagnosed. (N = 10,482)
[b] Among adults who were ever told that they had HBP, the proportion that reported they were currently taking blood pressure (BP) medicines for their HBP. (N = 4,227)
[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: Cholesterol Screening and Awareness
2019 Michigan BRFS

Demographic Characteristics	Cholesterol Ever Checked[a]		Checked Within Past Five Years[b]		Ever Told High Cholesterol[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**93.9**	**(93.1-94.6)**	**90.6**	**(89.7-91.4)**	**32.3**	**(31.2-33.5)**
Age						
18 – 24	81.2	(76.9-84.9)	77.8	(73.2-81.7)	5.3	(3.5-7.9)
25 – 34	85.7	(82.6-88.4)	80.0	(76.5-83.2)	9.9	(7.8-12.4)
35 – 44	93.0	(90.7-94.8)	88.9	(86.3-91.1)	20.9	(18.0-24.0)
45 – 54	96.8	(95.4-97.9)	94.3	(92.6-95.7)	36.9	(33.8-40.2)
55 – 64	98.3	(97.3-98.9)	95.2	(93.8-96.3)	44.3	(41.5-47.0)
65 – 74	--[d]	--[d]	97.5	(96.3-98.4)	56.8	(54.1-59.4)
75 +	99.0	(98.2-99.5)	97.1	(95.2-98.3)	51.2	(47.9-54.6)
Gender						
Male	92.1	(90.8-93.2)	88.0	(86.5-89.4)	33.1	(31.4-34.9)
Female	95.5	(94.6-96.3)	93.0	(92.0-94.0)	31.6	(30.1-33.2)
Race/Ethnicity						
White non-Hispanic	94.4	(93.5-95.1)	91.0	(90.0-91.9)	34.2	(32.9-35.5)
Black non-Hispanic	94.0	(91.4-95.8)	92.2	(89.3-94.3)	29.2	(25.6-33.1)
Other non-Hispanic	91.7	(87.7-94.4)	88.0	(83.4-91.5)	26.1	(21.1-31.9)
Hispanic	89.5	(83.6-93.5)	86.1	(79.7-90.7)	17.7	(13.1-23.5)
Education						
Less than high school	93.9	(93.1-94.6)	83.5	(77.8-87.9)	30.0	(24.9-35.7)
High school graduate	88.6	(83.5-92.2)	89.7	(88.0-91.2)	34.0	(31.8-36.2)
Some college	93.3	(91.8-94.5)	90.7	(89.2-92.0)	32.7	(30.8-34.8)
College graduate	93.8	(92.5-94.9)	94.1	(93.0-95.0)	30.9	(29.2-32.6)
Household Income						
< $20,000	92.6	(90.1-94.5)	88.9	(86.1-91.2)	34.6	(30.9-38.4)
$20,000 - $34,999	92.5	(90.3-94.2)	89.0	(86.5-91.1)	34.5	(31.6-37.6)
$35,000 - $49,999	94.4	(92.0-96.2)	90.6	(87.4-93.1)	33.6	(30.2-37.1)
$50,000 - $74,999	93.1	(90.7-94.9)	89.8	(87.2-91.9)	33.8	(30.7-37.0)
$75,000 +	96.3	(95.2-97.2)	94.0	(92.7-95.1)	29.8	(27.9-31.9)

[a] Among all adults, the proportion who reported ever having had their blood cholesterol checked. (N =9,793)
[b] Among all adults, the proportion who reported that they have had their blood cholesterol checked within the past five years. (N = 9,793)
[c] Among adults who ever had their blood cholesterol checked, the proportion who reported that a doctor, nurse, or other health professional had told them that their cholesterol was high. (N = 9,967)
[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 24 these tables should not be compared to Michigan BRFSS estimates from prior to 2011.

Table 22: No Routine Checkup in Past Year 2019 Michigan BRFS		
	Had No Routine Checkup in Past Year[a]	
	%	**95% Confidence Interval**
Total	**19.8**	**(18.7-20.9)**
Age		
18 - 24	29.3	(25.4-33.6)
25 - 34	31.5	(28.1-35.1)
35 - 44	26.2	(23.1-29.6)
45 - 54	17.7	(15.4-20.2)
55 - 64	14.2	(12.3-16.3)
65 - 74	9.3	(7.8-11.0)
75 +	6.5	(4.9-8.6)
Gender		
Male	24.3	(22.6-26.0)
Female	15.5	(14.2-16.9)
Race/Ethnicity		
White non-Hispanic	19.8	(18.7-21.1)
Black non-Hispanic	16.6	(13.6-20.3)
Other non-Hispanic	21.0	(16.6-26.3)
Hispanic	26.2	(20.0-33.5)
Education		
Less than high school	25.2	(20.1-31.2)
High school graduate	18.7	(16.9-20.7)
Some college	21.1	(19.3-23.0)
College graduate	17.3	(15.9-18.9)
Household Income		
< $20,000	21.7	(18.3-25.5)
$20,000 - $34,999	21.4	(18.7-24.4)
$35,000 - $49,999	20.7	(17.4-24.4)
$50,000 - $74,999	21.3	(18.5-24.4)
$75,000 +	18.1	(16.4-20.0)

[a] Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 10,409)

Table 23: Immunizations among Adults Aged 65 Years and Older 2019 Michigan BRFS				
	Had Flu Vaccine in Past Year[a]		**Ever Had Pneumonia Vaccine[b]**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**60.7**	**(58.6-62.8)**	**72.6**	**(70.5-74.5)**
Age				
65 - 74	57.0	(54.3-59.7)	68.1	(65.5-70.7)
75 +	66.3	(63.0-69.5)	79.3	(76.3-82.1)
Gender				
Male	62.2	(58.9-65.3)	69.4	(66.1-72.5)
Female	59.5	(56.8-62.2)	75.1	(72.6-77.4)
Race/Ethnicity				
White non-Hispanic	62.7	(60.6-64.9)	74.5	(72.5-76.4)
Black non-Hispanic	50.1	(41.4-58.8)	58.3	(49.2-66.9)
Other non-Hispanic	48.6	(34.8-62.6)	59.1	(44.2-72.6)
Hispanic	--[c]	--[c]	--[c]	--[c]
Education				
Less than high school	50.2	(40.0-60.4)	59.1	(48.3-69.1)
High school graduate	57.2	(53.4-60.9)	71.5	(67.9-74.8)
Some college	60.4	(56.8-63.8)	73.6	(70.3-76.7)
College graduate	69.3	(66.3-72.1)	77.4	(74.6-79.9)
Household Income				
< $20,000	51.6	(44.5-58.7)	60.8	(53.1-68.0)
$20,000 - $34,999	57.6	(53.1-62.1)	71.7	(67.3-75.7)
$35,000 - $49,999	62.2	(56.9-67.2)	71.9	(66.8-76.6)
$50,000 - $74,999	65.3	(60.1-70.2)	75.0	(70.2-79.3)
$75,000 +	69.6	(65.0-73.8)	77.6	(73.3-81.3)

[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 = 3,713)
[b] Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 3,616)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 24: HIV Testing among Adults Aged 18 - 64 Years 2019 Michigan BRFS		
	Ever Had an HIV Test[a]	
	%	**95% Confidence Interval**
Total	**47.1**	**(45.5-48.8)**
Age		
18 – 24	27.7	(23.7-32.1)
25 – 34	57.1	(53.3-60.9)
35 – 44	62.4	(58.6-66.0)
45 – 54	51.7	(48.4-55.0)
55 – 64	35.7	(33.0-38.5)
Gender		
Male	41.9	(39.6-44.2)
Female	52.5	(50.2-54.8)
Race/Ethnicity		
White non-Hispanic	42.9	(41.1-44.8)
Black non-Hispanic	71.5	(66.7-75.8)
Other non-Hispanic	40.4	(34.0-47.2)
Hispanic	52.1	(43.8-60.3)
Education		
Less than high school	51.1	(43.5-58.7)
High school graduate	46.0	(42.9-49.1)
Some college	48.8	(46.0-51.5)
College graduate	44.6	(42.2-47.1)
Household Income		
< $20,000	61.9	(57.1-66.5)
$20,000 - $34,999	52.9	(48.4-57.3)
$35,000 - $49,999	46.8	(41.6-52.1)
$50,000 - $74,999	45.7	(41.5-50.0)
$75,000 +	42.0	(39.5-44.6)

[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 = 5,826)

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 25: Asthma among Adults 2019 Michigan BRFS				
	Lifetime Asthma Prevalence[a]		Current Asthma Prevalence[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**16.4**	**(15.4-17.4)**	**11.1**	**(10.3-12.0)**
Age				
18 - 24	22.3	(18.6-26.4)	12.9	(10.0-16.4)
25 - 34	17.3	(14.7-20.2)	11.3	(9.2-13.9)
35 - 44	17.7	(15.0-20.7)	12.0	(9.7-14.7)
45 - 54	16.2	(14.0-18.7)	12.1	(10.2-14.4)
55 - 64	16.0	(14.0-18.3)	11.9	(10.1-14.0)
65 - 74	12.6	(11.1-14.4)	9.0	(7.7-10.6)
75 +	10.8	(9.0-12.9)	7.2	(5.9-8.9)
Gender				
Male	14.1	(12.7-15.6)	8.6	(7.5-9.9)
Female	18.5	(17.2-19.9)	13.6	(12.4-14.8)
Race/Ethnicity				
White non-Hispanic	15.8	(14.8-16.9)	10.6	(9.7-11.5)
Black non-Hispanic	20.2	(17.0-23.8)	15.9	(13.0-19.2)
Other non-Hispanic	15.3	(11.3-20.5)	10.3	(6.8-15.2)
Hispanic	18.3	(12.9-25.5)	10.1	(6.6-15.0)
Education				
Less than high school	23.6	(18.7-29.2)	17.6	(13.4-22.7)
High school graduate	15.9	(14.2-17.7)	10.4	(9.0-11.9)
Some college	16.7	(15.1-18.4)	11.8	(10.4-13.3)
College graduate	13.7	(12.4-15.0)	8.7	(7.7-9.8)
Household Income				
< $20,000	26.6	(23.0-30.5)	18.8	(15.8-22.1)
$20,000 - $34,999	18.6	(16.1-21.5)	14.6	(12.3-17.4)
$35,000 - $49,999	13.1	(10.7-15.9)	9.9	(7.8-12.5)
$50,000 - $74,999	13.5	(11.4-15.8)	8.4	(6.8-10.4)
$75,000 +	14.0	(12.4-15.7)	8.4	(7.1-9.8)

[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 = 10,472)
[b] Among all adults, the proportion who reported that they still had asthma. (N = 10,411)

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.

28

Table 26: Asthma among Children 2019 Michigan BRFS				
	Lifetime Asthma Prevalence[a]		Current Asthma Prevalence[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**11.0**	**(9.4-12.8)**	**7.8**	**(6.4-9.5)**
Age				
0 - 4	4.4	(2.7-7.0)	3.3	(1.9-5.6)
5 - 9	11.7	(8.2-16.4)	8.3	(5.2-12.9)
10 - 14	15.9	(12.1-20.5)	12.1	(8.7-16.6)
15 - 17	14.0	(10.8-17.9)	9.2	(6.7-12.6)
Gender				
Boy	12.6	(10.2-15.4)	8.7	(6.7-11.2)
Girl	9.6	(7.5-12.1)	7.0	(5.2-9.4)
Race/Ethnicity				
White non-Hispanic	9.9	(8.0-12.3)	7.3	(5.6-9.4)
Black non-Hispanic	12.1	(8.4-17.2)	9.1	(5.9-13.6)
Other non-Hispanic	12.4	(8.3-18.2)	7.6	(4.5-12.4)
Hispanic	13.0	(7.5-21.8)	--[c]	--[c]
Respondent Education				
Less than high school	21.0	(12.4-33.4)	14.7	(7.8-25.9)
High school graduate	8.4	(5.8-11.9)	5.6	(3.6-8.5)
Some college	10.0	(7.9-12.7)	7.0	(5.2-9.2)
College graduate	12.2	(9.3-15.7)	9.0	(6.4-12.4)
Household Income				
< $20,000	13.9	(9.1-20.8)	7.5	(4.4-12.4)
$20,000 - $34,999	15.3	(10.8-21.3)	11.4	(7.4-17.3)
$35,000 - $49,999	11.9	(7.4-18.5)	8.5	(5.0-14.2)
$50,000 - $74,999	9.0	(6.2-13.1)	6.3	(3.9-10.1)
$75,000 +	9.6	(7.1-12.8)	7.3	(5.0-10.4)

[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 = 2,133).
[b] Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 2,127)
[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: Chronic Obstructive Pulmonary Disease (COPD) 2019 Michigan BRFS		
	Ever Told COPD, Emphysema or Chronic Bronchitis[a]	
	%	**95% Confidence Interval**
Total	**8.4**	**(7.7-9.1)**
Age		
18 - 24	--[b]	--[b]
25 - 34	2.8	(1.7-4.4)
35 - 44	3.0	(2.1-4.4)
45 - 54	8.5	(6.8-10.7)
55 - 64	13.5	(11.6-15.6)
65 - 75	15.7	(13.8-17.8)
75 +	15.2	(12.9-17.9)
Gender		
Male	7.8	(6.8-8.8)
Female	8.9	(8.1-9.9)
Race/Ethnicity		
White/Non-Hispanic	8.6	(7.9-9.4)
Black/Non-Hispanic	7.7	(5.8-10.3)
Other/Non-Hispanic	6.7	(4.3-10.2)
Hispanic	7.0	(4.2-11.4)
Education		
Less than high school	17.6	(13.9-22.1)
High school graduate	10.2	(9.0-11.6)
Some college	7.5	(6.5-8.5)
College graduate	3.9	(3.3-4.6)
Household Income		
< $20,000	17.4	(14.7-20.4)
$20,000 - $34,999	11.2	(9.4-13.2)
$35,000 - $49,999	9.0	(7.2-11.2)
$50,000 - $74,999	6.0	(4.7-7.6)
$75,000 +	2.9	(2.3-3.8)

[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 = 10,456)
[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 28: Arthritis 2019 Michigan BRFS		
Demographic Characteristics	**Ever Told Arthritis**[a]	
	%	**95% Confidence Interval**
Total	**30.9**	**(29.8-32.0)**
Age		
18 - 24	4.6	(3.1-6.8)
25 - 34	8.4	(6.5-10.6)
35 - 44	19.2	(16.4-22.2)
45 - 54	32.3	(29.4-35.4)
55 - 64	45.8	(43.1-48.6)
65 - 75	55.4	(52.8-58.0)
75 +	57.3	(53.9-60.6)
Gender		
Male	26.7	(25.1-28.3)
Female	34.8	(33.3-36.4)
Race/Ethnicity		
White/Non-Hispanic	32.5	(31.3-33.8)
Black/Non-Hispanic	30.3	(26.8-34.1)
Other/Non-Hispanic	18.0	(14.3-22.5)
Hispanic	18.0	(13.5-23.7)
Education		
Less than high school	33.6	(28.5-39.1)
High school graduate	35.6	(33.4-37.8)
Some college	31.1	(29.2-33.0)
College graduate	24.2	(22.8-25.8)
Household Income		
< $20,000	38.8	(35.1-42.6)
$20,000 - $34,999	38.0	(34.9-41.1)
$35,000 - $49,999	33.9	(30.6-37.4)
$50,000 - $74,999	29.3	(26.5-32.3)
$75,000 +	23.2	(21.5-25.0)

[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 = 10,445)

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 29: Cardiovascular Disease
2019 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	**4.5**	**(4.0-5.0)**	**4.5**	**(4.0-4.9)**	**3.6**	**(3.2-4.1)**	**9.4**	**(8.7-10.1)**
Age								
18 - 34	--[e]	--[e]	--[e]	--[e]	0.7	(0.3-1.4)	1.1	(0.6-1.8)
35 - 44	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	3.6	(2.4-5.3)
45 - 54	4.1	(2.8-5.7)	3.8	(2.8-5.2)	3.0	(2.0-4.5)	8.2	(6.5-10.4)
55 - 64	5.8	(4.6-7.3)	5.7	(4.6-7.2)	5.3	(4.1-6.8)	12.5	(10.7-14.5)
65 - 74	9.1	(7.6-10.7)	9.1	(7.7-10.7)	6.6	(5.4-8.0)	18.2	(16.2-20.3)
75 +	13.4	(11.2-15.8)	15.5	(13.3-17.9)	9.3	(7.5-11.4)	28.3	(25.4-31.4)
Gender								
Male	5.8	(5.0-6.7)	5.2	(4.6-6.0)	3.3	(2.7-4.0)	10.5	(9.5-11.6)
Female	3.2	(2.7-3.7)	3.7	(3.2-4.3)	3.8	(3.3-4.5)	8.3	(7.5-9.2)
Race/Ethnicity								
White non-Hispanic	4.5	(4.0-5.0)	4.8	(4.3-5.3)	3.3	(2.9-3.8)	9.3	(8.6-10.1)
Black non-Hispanic	4.6	(3.1-6.9)	3.7	(2.5-5.4)	5.4	(3.8-7.7)	10.6	(8.3-13.5)
Other non-Hispanic	3.7	(2.2-6.2)	--[e]	--[e]	3.2	(2.1-5.0)	8.1	(5.6-11.6)
Hispanic	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	7.2	(4.3-11.9)
Education								
< High school	9.8	(7.1-13.4)	5.9	(4.0-8.6)	6.5	(4.4-9.7)	16.3	(12.8-20.6)
High school graduate	4.9	(4.1-5.8)	5.5	(4.6-6.5)	4.0	(3.3-4.9)	10.6	(9.4-12.0)
Some college	3.8	(3.2-4.5)	3.6	(3.0-4.3)	3.3	(2.7-4.0)	8.2	(7.2-9.3)
College graduate	2.9	(2.4-3.5)	3.8	(3.3-4.5)	2.4	(1.9-3.0)	7.0	(6.2-7.9)
Household Income								
< $20,000	8.4	(6.6-10.7)	6.0	(4.6-7.8)	8.1	(6.3-10.5)	16.4	(13.9-19.3)
$20,000 - $34,999	6.0	(4.8-7.5)	5.8	(4.7-7.2)	4.6	(3.6-6.0)	12.0	(10.2-14.0)
$35,000 - $49,999	4.6	(3.4-6.1)	4.9	(3.6-6.5)	3.7	(2.6-5.2)	10.1	(8.3-12.3)
$50,000 - $74,999	3.7	(2.6-5.3)	4.4	(3.3-5.7)	2.8	(2.0-4.0)	8.6	(7.0-10.6)
$75,000 +	2.3	(1.8-3.0)	2.8	(2.3-3.5)	1.4	(1.0-2.0)	4.9	(4.2-5.9)

Among all adults, the proportion who had ever been told by a doctor that…
[a] they had a heart attack or myocardial infarction (N = 10,449);
[b] they had angina or coronary heart disease (N = 10,415);
[c] they had a stroke. (N = 10,482)
[d] they had a heart attack, coronary heart disease or a stroke. (N = 10,399)
[e] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

	Ever Told Skin Cancer[a]		**Ever Told Any Other Types of Cancer**[b]		**Ever Told Cancer**[c]	
Table 30: Cancer 2019 Michigan BRFS						
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**6.8**	**(6.3-7.3)**	**8.3**	**(7.7-9.0)**	**13.5**	**(12.7-14.2)**
Age						
18 - 34	1.0	(0.5-1.8)	--[d]	--[d]	2.2	(1.4-3.3)
35 - 44	2.0	(1.1-3.5)	3.1	(2.1-4.7)	4.6	(3.3-6.5)
45 - 54	4.0	(3.0-5.2)	6.0	(4.8-7.5)	9.6	(8.0-11.4)
55 - 64	8.9	(7.6-10.4)	10.8	(9.2-12.7)	18.2	(16.2-20.4)
65 - 74	13.8	(12.2-15.5)	17.1	(15.1-19.2)	27.9	(25.6-30.3)
75 +	22.8	(20.2-25.5)	25.3	(22.6-28.2)	39.9	(36.8-43.1)
Gender						
Male	6.7	(6.1-7.5)	7.0	(6.2-7.9)	12.3	(11.3-13.4)
Female	6.8	(6.1-7.5)	9.6	(8.8-10.6)	14.6	(13.6-15.7)
Race/Ethnicity						
White non-Hispanic	8.4	(7.8-9.1)	9.2	(8.5-9.9)	15.5	(14.6-16.4)
Black non-Hispanic	--[d]	--[d]	6.8	(5.0-9.1)	7.3	(5.5-9.8)
Other non-Hispanic	--[d]	--[d]	4.5	(2.9-7.1)	6.4	(4.2-9.8)
Hispanic	--[d]	--[d]	4.6	(2.6-7.9)	6.3	(3.7-10.6)
Education						
Less than high school	3.2	(1.9-5.2)	8.1	(5.7-11.4)	10.3	(7.6-13.8)
High school graduate	6.1	(5.2-7.2)	9.1	(8.0-10.4)	13.7	(12.3-15.2)
Some college	6.7	(5.8-7.7)	8.3	(7.3-9.4)	13.2	(12.0-14.6)
College graduate	8.8	(8.0-9.8)	7.6	(6.8-8.6)	14.8	(13.7-16.0)
Household Income						
< $20,000	4.1	(3.0-5.5)	9.1	(7.2-11.4)	11.8	(9.7-14.3)
$20,000 - $34,999	6.5	(5.3-8.0)	10.5	(8.9-12.4)	15.2	(13.2-17.4)
$35,000 - $49,999	7.5	(6.0-9.4)	9.9	(8.1-12.0)	15.4	(13.1-17.9)
$50,000 - $74,999	9.0	(7.5-10.7)	8.1	(6.7-9.8)	14.9	(13.0-17.0)
$75,000 +	6.6	(5.7-7.6)	6.0	(5.1-7.0)	11.6	(10.4-12.9)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 10,486)
[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 = 10,485)
[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 = 10,466)
[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 31: Diabetes 2019 Michigan BRFS		
	Ever Told Diabetes[a]	
	%	95% Confidence Interval
Total	**11.1**	**(10.4-11.8)**
Age		
18 – 24	--[b]	--[b]
25 – 34	1.6	(0.9-2.7)
35 – 44	5.1	(3.7-7.1)
45 – 54	11.6	(9.8-13.7)
55 – 64	15.9	(13.9-18.0)
65 – 74	24.1	(21.9-26.5)
75 +	22.2	(19.6-25.1)
Gender		
Male	11.5	(10.4-12.6)
Female	10.7	(9.8-11.7)
Race/Ethnicity		
White non-Hispanic	10.9	(10.1-11.7)
Black non-Hispanic	14.6	(12.1-17.6)
Other non-Hispanic	6.8	(4.8-9.7)
Hispanic	9.2	(6.0-13.9)
Education		
Less than high school	13.0	(9.9-16.8)
High school graduate	12.9	(11.5-14.4)
Some college	11.0	(9.9-12.2)
College graduate	8.5	(7.6-9.5)
Household Income		
< $20,000	17.1	(14.6-20.1)
$20,000 - $34,999	13.7	(11.8-15.8)
$35,000 - $49,999	10.9	(9.0-13.1)
$50,000 - $74,999	10.5	(8.9-12.5)
$75,000 +	7.6	(6.6-8.8)

[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 = 10,498)
[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 32: Kidney Disease 2019 Michigan BRFS		
	Ever Told Kidney Disease[a]	
	%	**95% Confidence Interval**
Total	**3.4**	**(3.1-3.9)**
Age		
18 – 24	--[b]	--[b]
25 – 34	--[b]	--[b]
35 – 44	1.6	(1.0-2.6)
45 – 54	3.2	(2.2-4.6)
55 – 64	4.8	(3.8-6.1)
65 – 74	6.2	(5.1-7.5)
75 +	8.6	(7.1-10.5)
Gender		
Male	3.3	(2.7-3.9)
Female	3.6	(3.1-4.1)
Race/Ethnicity		
White non-Hispanic	3.7	(3.3-4.2)
Black non-Hispanic	3.3	(2.2-4.9)
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education		
Less than high school	3.4	(2.0-5.8)
High school graduate	3.8	(3.1-4.6)
Some college	3.7	(3.1-4.4)
College graduate	2.7	(2.2-3.4)
Household Income		
< $20,000	5.4	(4.1-7.1)
$20,000 - $34,999	5.1	(3.9-6.6)
$35,000 - $49,999	3.8	(2.8-5.2)
$50,000 - $74,999	3.5	(2.6-4.6)
$75,000 +	1.7	(1.3-2.2)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease. (N = 10,476)
[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 33: Depression 2019 Michigan BRFS	Ever Told Depression[a]	
	%	95% Confidence Interval
Total	**21.4**	**(20.4-22.5)**
Age		
18 – 24	25.0	(21.3-29.2)
25 – 34	23.6	(20.5-26.9)
35 – 44	22.0	(19.3-25.0)
45 – 54	23.4	(20.8-26.2)
55 – 64	21.2	(19.0-23.5)
65 – 74	18.4	(16.5-20.5)
75 +	13.4	(11.3-15.8)
Gender		
Male	16.0	(14.5-17.5)
Female	26.6	(25.1-28.1)
Race/Ethnicity		
White non-Hispanic	22.2	(21.0-23.4)
Black non-Hispanic	18.3	(15.3-21.7)
Other non-Hispanic	18.0	(14.1-22.8)
Hispanic	22.1	(16.3-29.2)
Education		
Less than high school	30.8	(25.5-36.7)
High school graduate	20.5	(18.7-22.5)
Some college	23.4	(21.6-25.3)
College graduate	16.2	(14.9-17.6)
Household Income		
< $20,000	35.8	(32.1-39.6)
$20,000 - $34,999	26.4	(23.5-29.4)
$35,000 - $49,999	20.4	(17.5-23.6)
$50,000 - $74,999	17.2	(14.9-19.8)
$75,000 +	14.5	(13.0-16.1)

[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 = 10,438)

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.