

# **Prevalence Estimates for Risk Factors and Health Indicators**

## **State of Michigan**

### **Selected Tables**

#### **Michigan Behavioral Risk Factor Survey**

**2016**

Lifecourse Epidemiology and Genomics Division  
Bureau of Epidemiology and Population Health  
Michigan Department of Health and Human Services

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## 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 BRFSS data contribute to the national [Behavioral Risk Factor Surveillance System](#) that is managed by the PHSB at the CDC.

In 2016, the total sample size of completed interviews for the core survey was 12,024 (land line = 4,797; cell phone = 7,227). 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 12,024. 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 2016 Michigan BRFSS, 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 2016 Michigan BRFSS 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 2016 Michigan BRFSS 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 2011-2015 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 Chris Fussman at [FussmanC@michigan.gov](mailto:FussmanC@michigan.gov).

<b>Table 1: Health Status 2016 Michigan BRFSS</b>		
	<b>General Health, Fair or Poor<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>18.0</b>	<b>(17.2-18.9)</b>
<b>Age</b>		
18 – 24	10.9	(8.6-13.7)
25 – 34	12.1	(10.0-14.6)
35 – 44	15.1	(12.9-17.5)
45 – 54	21.0	(18.7-23.4)
55 – 64	22.8	(20.9-24.9)
65 – 74	21.1	(19.1-23.3)
75 +	25.8	(23.2-28.6)
<b>Gender</b>		
Male	16.9	(15.7-18.2)
Female	19.1	(17.9-20.4)
<b>Race/Ethnicity</b>		
White non-Hispanic	17.1	(16.2-18.1)
Black non-Hispanic	24.3	(21.5-27.4)
Other non-Hispanic	15.1	(12.1-18.5)
Hispanic	17.7	(13.0-23.6)
<b>Education</b>		
Less than high school	35.3	(31.1-39.8)
High school graduate	20.8	(19.2-22.5)
Some college	17.1	(15.7-18.5)
College graduate	8.3	(7.4-9.2)
<b>Household Income</b>		
< \$20,000	37.4	(34.4-40.5)
\$20,000 - \$34,999	22.4	(20.1-24.8)
\$35,000 - \$49,999	15.0	(12.9-17.4)
\$50,000 - \$74,999	12.6	(10.7-14.7)
\$75,000 +	6.6	(5.6-7.7)
<sup>a</sup> Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 12,002)		

**Table 2: Health Status on at Least 14 Days in the Past Month  
2016 Michigan BRFSS**

	Poor Physical Health <sup>a</sup>		Poor Mental Health <sup>b</sup>		Activity Limitation <sup>c</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>14.1</b>	<b>(13.3-14.9)</b>	<b>13.4</b>	<b>(12.6-14.3)</b>	<b>9.7</b>	<b>(9.0-10.4)</b>
<b>Age</b>						
18 – 24	7.9	(5.9-10.6)	18.0	(15.0-21.3)	5.6	(3.9-7.8)
25 – 34	8.1	(6.4-10.3)	16.1	(13.7-18.9)	6.7	(5.0-8.8)
35 – 44	11.4	(9.5-13.7)	15.6	(13.3-18.1)	9.8	(7.9-12.0)
45 – 54	16.4	(14.3-18.6)	13.7	(11.9-15.7)	12.2	(10.4-14.2)
55 – 64	20.8	(18.9-22.9)	13.2	(11.6-15.0)	13.7	(12.1-15.4)
65 – 74	16.0	(14.2-17.9)	7.3	(6.1-8.8)	9.4	(8.0-11.0)
75 +	18.5	(16.2-21.0)	6.7	(5.3-8.5)	9.4	(7.8-11.5)
<b>Gender</b>						
Male	12.6	(11.5-13.8)	11.4	(10.3-12.7)	8.6	(7.7-9.7)
Female	15.5	(14.4-16.7)	15.3	(14.2-16.5)	10.7	(9.8-11.8)
<b>Race/Ethnicity</b>						
White non-Hispanic	14.4	(13.5-15.3)	12.9	(12.0-13.9)	9.5	(8.7-10.3)
Black non-Hispanic	13.7	(11.5-16.3)	15.2	(12.7-18.2)	11.8	(9.7-14.4)
Other non-Hispanic	11.2	(8.8-14.0)	12.3	(9.6-15.7)	8.8	(6.7-11.4)
Hispanic	13.3	(9.0-19.1)	17.0	(12.1-23.2)	9.3	(6.0-14.1)
<b>Education</b>						
Less than high school	28.7	(24.7-33.1)	25.5	(21.4-30.0)	20.5	(16.9-24.6)
High school graduate	16.1	(14.6-17.6)	14.1	(12.6-15.6)	10.9	(9.7-12.2)
Some college	13.2	(12.0-14.5)	13.3	(12.0-14.7)	9.3	(8.2-10.4)
College graduate	6.6	(5.8-7.4)	7.5	(6.6-8.5)	4.1	(3.5-4.8)
<b>Household Income</b>						
< \$20,000	30.0	(27.2-33.0)	25.2	(22.4-28.2)	23.7	(21.2-26.5)
\$20,000 - \$34,999	17.0	(15.0-19.2)	16.0	(13.8-18.4)	11.1	(9.3-13.1)
\$35,000 - \$49,999	12.3	(10.4-14.4)	12.4	(10.4-14.8)	7.8	(6.2-9.7)
\$50,000 - \$74,999	9.6	(7.9-11.5)	9.6	(7.8-11.6)	5.5	(4.2-7.2)
\$75,000 +	5.5	(4.5-6.6)	6.9	(5.8-8.3)	3.1	(2.4-4.0)

<sup>a</sup> 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 = 11,830)

<sup>b</sup> 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 = 11,868)

<sup>c</sup> 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 = 11,911)

**Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations  
2016 Michigan BRFSS**

	Poor Physical Health <sup>a</sup>		Poor Mental Health <sup>b</sup>		Activity Limitation <sup>c</sup>	
	Mean # of Days	95% Confidence Interval	Mean # of Days	95% Confidence Interval	Mean # of Days	95% Confidence Interval
<b>Total</b>	<b>4.4</b>	<b>(4.2-4.7)</b>	<b>4.3</b>	<b>(4.0-4.5)</b>	<b>3.0</b>	<b>(2.8-3.2)</b>
<b>Age</b>						
18 - 24	2.9	(2.3-3.4)	5.8	(5.0-6.5)	2.3	(1.8-2.8)
25 - 34	3.0	(2.4-3.5)	5.1	(4.4-5.7)	2.0	(1.6-2.5)
35 - 44	3.8	(3.2-4.3)	4.8	(4.2-5.4)	3.1	(2.6-3.6)
45 - 54	5.0	(4.5-5.6)	4.6	(4.0-5.1)	3.6	(3.1-4.1)
55 - 64	6.1	(5.6-6.6)	4.0	(3.6-4.5)	4.0	(3.5-4.4)
65 - 74	4.9	(4.4-5.4)	2.5	(2.1-2.8)	2.8	(2.4-3.2)
75 +	5.7	(5.0-6.3)	2.2	(1.8-2.6)	2.9	(2.4-3.4)
<b>Gender</b>						
Male	4.0	(3.7-4.3)	3.5	(3.3-3.8)	2.7	(2.4-2.9)
Female	4.8	(4.5-5.1)	4.9	(4.6-5.2)	3.3	(3.1-3.6)
<b>Race/Ethnicity</b>						
White non-Hispanic	4.5	(4.3-4.8)	4.1	(3.9-4.4)	2.9	(2.7-3.1)
Black non-Hispanic	4.5	(3.9-5.1)	4.8	(4.1-5.5)	3.6	(3.1-4.2)
Other non-Hispanic	3.7	(3.1-4.4)	4.4	(3.6-5.1)	3.1	(2.4-3.7)
Hispanic	4.0	(2.8-5.1)	4.6	(3.3-6.0)	3.0	(2.0-4.0)
<b>Education</b>						
Less than high school	8.2	(7.1-9.3)	7.1	(6.0-8.2)	5.8	(4.9-6.8)
High school graduate	4.9	(4.5-5.2)	4.4	(4.0-4.7)	3.3	(2.9-3.6)
Some college	4.3	(4.0-4.6)	4.3	(4.0-4.6)	2.9	(2.6-3.1)
College graduate	2.5	(2.3-2.7)	2.8	(2.6-3.0)	1.6	(1.4-1.8)
<b>Household Income</b>						
< \$20,000	8.8	(8.0-9.5)	7.5	(6.7-8.2)	6.9	(6.2-7.6)
\$20,000 - \$34,999	5.1	(4.6-5.7)	4.9	(4.3-5.4)	3.3	(2.9-3.8)
\$35,000 - \$49,999	4.0	(3.4-4.5)	4.1	(3.5-4.6)	2.4	(2.0-2.8)
\$50,000 - \$74,999	3.3	(2.8-3.7)	3.5	(3.0-3.9)	1.9	(1.6-2.3)
\$75,000 +	2.2	(1.9-2.4)	2.5	(2.2-2.8)	1.2	(1.0-1.4)

<sup>a</sup> 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 = 11,830)

<sup>b</sup> 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 = 11,868)

<sup>c</sup> 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 = 11,911)

<b>Table 4: Disability 2016 Michigan BRFSS</b>						
	<b>Total Disability<sup>a</sup></b>		<b>Any Activity Limitation<sup>b</sup></b>		<b>Used Special Equipment<sup>c</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>26.7</b>	<b>(25.7-27.8)</b>	<b>24.3</b>	<b>(23.3-25.2)</b>	<b>10.7</b>	<b>(10.0-11.4)</b>
<b>Age</b>						
18 - 24	12.9	(10.4-15.9)	12.6	(10.2-15.6)	2.2	(1.3-3.7)
25 - 34	18.4	(15.7-21.4)	17.5	(14.8-20.5)	3.7	(2.4-5.7)
35 - 44	21.4	(18.9-24.3)	20.4	(17.9-23.2)	6.3	(4.9-8.2)
45 - 54	26.5	(24.1-29.0)	24.0	(21.7-26.5)	10.6	(8.9-12.5)
55 - 64	36.0	(33.7-38.3)	33.6	(31.4-35.9)	15.1	(13.4-17.0)
65 - 74	34.3	(31.9-36.7)	30.8	(28.5-33.1)	14.9	(13.2-16.8)
75 +	41.2	(38.2-44.3)	31.7	(28.9-34.6)	27.0	(24.3-29.9)
<b>Gender</b>						
Male	25.4	(24.0-27.0)	23.0	(21.5-24.4)	10.1	(9.1-11.2)
Female	28.0	(26.6-29.4)	25.5	(24.2-26.8)	11.2	(10.3-12.1)
<b>Race/Ethnicity</b>						
White non-Hispanic	27.3	(26.2-28.5)	24.9	(23.8-26.0)	10.5	(9.7-11.3)
Black non-Hispanic	27.1	(24.1-30.3)	24.3	(21.4-27.4)	13.0	(10.9-15.5)
Other non-Hispanic	22.5	(18.7-26.8)	20.7	(17.0-25.0)	9.2	(7.1-11.8)
Hispanic	18.2	(13.3-24.3)	17.0	(12.2-23.0)	5.1	(3.0-8.6)
<b>Education</b>						
Less than high school	41.1	(36.5-45.9)	36.1	(31.7-40.9)	20.6	(17.1-24.7)
High school graduate	28.1	(26.3-30.0)	25.4	(23.7-27.2)	12.3	(11.1-13.6)
Some college	27.0	(25.3-28.7)	25.2	(23.6-26.9)	9.6	(8.6-10.6)
College graduate	18.3	(17.0-19.7)	16.2	(15.0-17.5)	5.9	(5.2-6.6)
<b>Household Income</b>						
< \$20,000	49.0	(45.8-52.3)	45.3	(42.2-48.6)	23.3	(20.8-25.9)
\$20,000 - \$34,999	29.6	(27.1-32.2)	27.0	(24.5-29.5)	13.4	(11.6-15.5)
\$35,000 - \$49,999	24.9	(22.3-27.6)	23.5	(21.0-26.3)	8.2	(6.7-9.9)
\$50,000 - \$74,999	22.5	(20.1-25.1)	20.3	(18.0-22.8)	6.2	(4.9-7.8)
\$75,000 +	14.0	(12.6-15.5)	12.5	(11.2-14.0)	3.7	(3.0-4.5)

<sup>a</sup> Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems, or reported that they required use of special equipment (such as a cane, a wheelchair, a special bed, or a special telephone) due to a health problem. (N = 11,490)

<sup>b</sup> Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems. (N = 11,501)

<sup>c</sup> Among all adults, the proportion who reported that they required use of special equipment (such as a can, a wheelchair, a special bed, or a special telephone) due to a health problem. (N = 11,524)

**Table 5: Weight Status  
2016 Michigan BRFSS**

	Obese <sup>a</sup>		Overweight <sup>b</sup>		Healthy Weight <sup>c</sup>		Underweight <sup>d</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>32.5</b>	<b>(31.4-33.6)</b>	<b>35.0</b>	<b>(33.9-36.2)</b>	<b>31.0</b>	<b>(29.9-32.1)</b>	<b>1.5</b>	<b>(1.2-1.8)</b>
<b>Age</b>								
18 - 24	21.7	(18.4-25.4)	26.2	(22.7-30.1)	48.6	(44.4-52.7)	3.5	(2.2-5.4)
25 - 34	29.0	(25.8-32.3)	30.3	(27.2-33.6)	39.4	(36.0-42.9)	-- <sup>e</sup>	-- <sup>e</sup>
35 - 44	38.0	(34.9-41.3)	33.8	(30.6-37.0)	26.8	(24.0-29.7)	1.4	(0.8-2.6)
45 - 54	36.8	(34.1-39.5)	38.6	(35.9-41.3)	24.0	(21.8-26.5)	-- <sup>e</sup>	-- <sup>e</sup>
55 - 64	35.0	(32.8-37.3)	39.1	(36.7-41.4)	24.5	(22.6-26.6)	1.4	(0.9-2.2)
65 - 74	36.4	(34.0-38.9)	37.7	(35.3-40.2)	24.9	(22.7-27.3)	-- <sup>e</sup>	-- <sup>e</sup>
75 +	26.5	(23.8-29.4)	39.0	(36.0-42.1)	32.8	(30.0-35.8)	1.6	(1.0-2.7)
<b>Gender</b>								
Male	32.3	(30.8-34.0)	40.0	(38.3-41.7)	26.7	(25.2-28.3)	0.9	(0.6-1.4)
Female	32.6	(31.1-34.1)	29.9	(28.4-31.4)	35.4	(33.8-37.0)	2.1	(1.6-2.6)
<b>Race/Ethnicity</b>								
White non-Hispanic	32.0	(30.8-33.3)	34.8	(33.6-36.1)	31.7	(30.4-32.9)	1.5	(1.2-1.9)
Black non-Hispanic	38.4	(35.0-42.0)	35.9	(32.5-39.5)	24.5	(21.3-28.0)	-- <sup>e</sup>	-- <sup>e</sup>
Other non-Hispanic	20.9	(17.3-25.0)	36.6	(31.4-42.1)	40.1	(34.7-45.8)	-- <sup>e</sup>	-- <sup>e</sup>
Hispanic	37.3	(30.6-44.4)	34.8	(28.2-42.0)	25.6	(19.8-32.6)	-- <sup>e</sup>	-- <sup>e</sup>
<b>Education</b>								
< High school	33.8	(29.4-38.4)	31.1	(26.7-35.8)	33.5	(28.8-38.4)	-- <sup>e</sup>	-- <sup>e</sup>
High school graduate	36.3	(34.2-38.4)	34.2	(32.1-36.2)	28.1	(26.2-30.1)	1.5	(1.0-2.2)
Some college	33.2	(31.3-35.1)	35.7	(33.7-37.7)	29.6	(27.7-31.5)	1.6	(1.1-2.2)
College graduate	26.2	(24.6-27.8)	37.0	(35.2-38.8)	35.6	(33.8-37.4)	1.3	(0.9-2.0)
<b>Household Income</b>								
< \$20,000	36.8	(33.7-39.9)	31.5	(28.5-34.7)	29.1	(26.2-32.3)	2.6	(1.8-3.8)
\$20,000 - \$34,999	34.4	(31.7-37.2)	34.3	(31.6-37.1)	29.8	(27.2-32.6)	1.5	(0.9-2.3)
\$35,000 - \$49,999	37.0	(33.9-40.2)	34.1	(31.1-37.3)	28.1	(25.2-31.1)	-- <sup>e</sup>	-- <sup>e</sup>
\$50,000 - \$74,999	32.9	(30.1-36.0)	34.7	(31.8-37.8)	31.1	(28.2-34.3)	-- <sup>e</sup>	-- <sup>e</sup>
\$75,000 +	27.7	(25.8-29.8)	39.0	(36.8-41.2)	32.4	(30.3-34.6)	0.8	(0.5-1.3)

Note: BMI, body mass index, is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)<sup>2</sup>]. Weight and height were self-reported. Pregnant women were excluded. (N = 11,130)

<sup>a</sup> Among all adults, the proportion of respondents whose BMI was greater than or equal to 30.0.

<sup>b</sup> Among all adults, the proportion of respondents whose BMI was greater than or equal to 25.0, but less than 30.0.

<sup>c</sup> Among all adults, the proportion of respondents whose BMI was greater than or equal to 18.5, but less than 25.0.

<sup>d</sup> Among all adults, the proportion of respondents whose BMI was less than 18.5.

<sup>e</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.



<b>Table 6: Health Care Coverage 2016 Michigan BRFSS</b>		
	<b>No Health Care Coverage<sup>a</sup> (Among 18 - 64 year olds)</b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	9.9	(9.0-10.8)
<b>Age</b>		
18 - 24	12.1	(9.7-15.0)
25 - 34	12.7	(10.4-15.3)
35 - 44	10.8	(8.8-13.2)
45 - 54	8.0	(6.5-9.8)
55 - 64	6.7	(5.5-8.2)
65 - 74	---	---
75 +	---	---
<b>Gender</b>		
Male	11.3	(10.0-12.7)
Female	8.5	(7.3-9.7)
<b>Race/Ethnicity</b>		
White non-Hispanic	8.2	(7.3-9.1)
Black non-Hispanic	14.6	(11.8-18.0)
Other non-Hispanic	13.5	(9.4-18.9)
Hispanic	18.2	(13.0-25.0)
<b>Education</b>		
Less than high school	20.7	(16.2-26.2)
High school graduate	12.6	(11.0-14.5)
Some college	8.6	(7.3-10.0)
College graduate	4.1	(3.3-5.1)
<b>Household Income</b>		
< \$20,000	14.8	(12.1-18.0)
\$20,000 - \$34,999	17.2	(14.5-20.4)
\$35,000 - \$49,999	12.1	(9.5-15.3)
\$50,000 - \$74,999	6.0	(4.2-8.3)
\$75,000 +	2.9	(2.2-3.9)
<sup>a</sup> 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 = 7,906)		

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**Table 7: Health Care Coverage Type<sup>a</sup>**  
2016 Michigan BRFSS

	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
<b>Total</b>	<b>52.9</b>	<b>(51.7-54.1)</b>	<b>9.2</b>	<b>(8.4-9.9)</b>	<b>21.5</b>	<b>(20.7-22.4)</b>	<b>4.8</b>	<b>(4.4-5.4)</b>	<b>2.9</b>	<b>(2.5-3.3)</b>	<b>8.7</b>	<b>(8.0-9.5)</b>
<b>Age</b>												
18 - 24	63.1	(58.9-67.2)	12.4	(9.8-15.5)	5.0	(3.4-7.3)	2.3	(1.4-3.8)	3.1	(1.9-5.1)	14.1	(11.3-17.4)
25 - 34	58.3	(54.7-61.8)	18.5	(15.8-21.5)	2.7	(1.8-4.1)	2.5	(1.5-4.3)	4.1	(3.0-5.6)	13.8	(11.3-16.7)
35 - 44	67.3	(64.1-70.4)	10.7	(8.8-13.0)	2.7	(1.8-4.0)	3.3	(2.4-4.7)	4.5	(3.3-6.1)	11.4	(9.3-13.8)
45 - 54	71.2	(68.5-73.7)	8.5	(7.1-10.2)	5.0	(3.8-6.6)	4.2	(3.2-5.6)	2.9	(2.1-3.9)	8.2	(6.7-10.0)
55 - 64	67.8	(65.6-70.1)	6.5	(5.4-7.9)	10.1	(8.8-11.6)	4.9	(4.0-6.1)	3.5	(2.8-4.5)	7.0	(5.7-8.5)
65 - 74	6.9	(5.8-8.2)	2.7	(1.9-3.7)	80.2	(78.0-82.2)	8.0	(6.8-9.6)	-- <sup>e</sup>	-- <sup>e</sup>	2.1	(1.4-3.2)
75 +	4.0	(3.0-5.4)	2.6	(1.7-3.8)	80.0	(77.3-82.5)	11.1	(9.2-13.4)	-- <sup>e</sup>	-- <sup>e</sup>	2.2	(1.4-3.4)
<b>Gender</b>												
Male	55.2	(53.5-57.0)	6.7	(5.8-7.7)	19.6	(18.4-20.8)	5.4	(4.7-6.3)	2.8	(2.3-3.5)	10.2	(9.1-11.5)
Female	50.7	(49.2-52.3)	11.4	(10.3-12.6)	23.3	(22.2-24.5)	4.3	(3.8-4.9)	2.9	(2.4-3.5)	7.3	(6.4-8.4)
<b>Race/Ethnicity</b>												
White non-Hispanic	55.7	(54.4-57.0)	7.5	(6.8-8.3)	23.1	(22.2-24.1)	4.2	(3.7-4.7)	2.5	(2.1-2.9)	7.0	(6.3-7.8)
Black non-Hispanic	35.1	(31.8-38.6)	17.5	(14.9-20.5)	18.9	(16.4-21.7)	9.3	(7.6-11.4)	5.4	(4.0-7.3)	13.7	(11.2-16.7)
Other non-Hispanic	55.4	(49.8-60.9)	10.3	(7.5-13.9)	13.4	(10.2-17.3)	5.3	(3.6-7.8)	2.0	(1.1-3.6)	13.5	(9.6-18.9)
Hispanic	53.6	(46.3-60.7)	12.3	(8.2-18.1)	9.1	(6.1-13.3)	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	18.4	(13.1-25.2)
<b>Education</b>												
< High school	21.9	(17.9-26.6)	21.7	(17.9-25.9)	22.7	(19.3-26.6)	11.5	(9.0-14.7)	3.8	(2.4-5.9)	18.4	(14.6-22.9)
High school	44.0	(41.9-46.2)	10.6	(9.3-12.1)	24.8	(23.2-26.4)	6.3	(5.4-7.4)	3.5	(2.8-4.5)	10.7	(9.4-12.3)
Some college	56.0	(54.1-58.0)	8.6	(7.4-9.8)	21.1	(19.8-22.6)	3.6	(3.0-4.3)	3.2	(2.6-4.0)	7.5	(6.4-8.7)
College graduate	72.9	(71.3-74.3)	2.8	(2.2-3.6)	17.6	(16.5-18.8)	1.9	(1.5-2.4)	1.1	(0.8-1.6)	3.7	(3.0-4.5)
<b>Household Income</b>												
< \$20,000	16.2	(13.9-18.8)	27.3	(24.4-30.4)	19.5	(17.2-22.0)	14.9	(12.9-17.1)	8.6	(7.0-10.5)	13.5	(11.2-16.3)
\$20,000 - \$34,999	34.2	(31.5-37.0)	13.1	(11.1-15.4)	29.4	(27.1-31.8)	5.4	(4.2-7.0)	4.0	(2.9-5.4)	13.9	(11.8-16.4)
\$35,000 - \$49,999	54.0	(50.8-57.3)	5.4	(3.9-7.3)	25.8	(23.5-28.4)	3.1	(2.2-4.5)	1.9	(1.2-3.2)	9.7	(7.6-12.2)
\$50,000 - \$74,999	69.4	(66.6-72.1)	2.3	(1.5-3.6)	21.2	(19.1-23.5)	1.4	(0.9-2.2)	-- <sup>e</sup>	-- <sup>e</sup>	5.2	(3.7-7.3)
\$75,000 +	83.5	(82.0-84.9)	1.0	(0.7-1.6)	11.3	(10.3-12.5)	1.0	(0.7-1.6)	-- <sup>e</sup>	-- <sup>e</sup>	2.7	(2.0-3.7)

<sup>a</sup> Among all adults, the proportion who reported currently having each of the above health care coverage types. (N = 11,368)

<sup>e</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

<b>Table 8: Health Care Access 2016 Michigan BRFS</b>				
	<b>No Personal Health Care Provider<sup>a</sup></b>		<b>No Health Care Access During Past 12 Months Due to Cost<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>14.8</b>	<b>(13.9-15.7)</b>	<b>12.8</b>	<b>(12.0-13.6)</b>
<b>Age</b>				
18 - 24	28.9	(25.5-32.7)	13.1	(10.6-16.1)
25 - 34	28.3	(25.3-31.5)	14.7	(12.5-17.2)
35 - 44	17.1	(14.6-19.8)	18.6	(16.2-21.3)
45 - 54	11.2	(9.6-13.1)	13.2	(11.5-15.1)
55 - 64	7.2	(6.0-8.5)	12.3	(10.8-13.9)
65 - 74	4.4	(3.4-5.7)	7.3	(6.0-8.9)
75 +	3.6	(2.7-4.9)	7.1	(5.5-9.0)
<b>Gender</b>				
Male	19.2	(17.8-20.7)	12.0	(10.9-13.2)
Female	10.6	(9.6-11.8)	13.5	(12.4-14.6)
<b>Race/Ethnicity</b>				
White non-Hispanic	13.3	(12.4-14.3)	11.8	(10.9-12.7)
Black non-Hispanic	19.4	(16.5-22.6)	15.2	(12.9-17.8)
Other non-Hispanic	18.7	(15.2-22.9)	19.5	(15.6-24.2)
Hispanic	24.1	(18.5-30.7)	16.0	(11.4-22.1)
<b>Education</b>				
Less than high school	20.7	(16.9-25.0)	19.5	(16.0-23.6)
High school graduate	16.9	(15.3-18.7)	14.9	(13.5-16.5)
Some college	13.7	(12.3-15.2)	12.8	(11.5-14.1)
College graduate	10.8	(9.6-12.1)	7.3	(6.3-8.3)
<b>Household Income</b>				
< \$20,000	20.6	(17.9-23.6)	20.1	(17.7-22.7)
\$20,000 - \$34,999	17.4	(15.2-19.8)	19.4	(17.2-21.8)
\$35,000 - \$49,999	15.1	(12.6-17.9)	15.2	(12.8-17.9)
\$50,000 - \$74,999	12.4	(10.3-14.8)	10.0	(8.2-12.1)
\$75,000 +	9.7	(8.3-11.2)	4.3	(3.4-5.3)
<sup>a</sup> 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 = 11,940) <sup>b</sup> 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 = 11,990)				

<b>Table 9: No Leisure Time Physical Activity 2016 Michigan BRFSS</b>		
	<b>No Leisure Time Physical Activity<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>23.9</b>	<b>(22.9-24.9)</b>
<b>Age</b>		
18 – 24	16.6	(13.8-19.7)
25 – 34	16.7	(14.2-19.5)
35 – 44	21.8	(19.2-24.7)
45 – 54	26.5	(24.1-29.0)
55 – 64	27.2	(25.1-29.3)
65 – 74	27.8	(25.6-30.2)
75 +	33.9	(31.0-36.9)
<b>Gender</b>		
Male	22.0	(20.6-23.4)
Female	25.7	(24.3-27.0)
<b>Race/Ethnicity</b>		
White non-Hispanic	22.9	(21.8-23.9)
Black non-Hispanic	28.6	(25.6-31.9)
Other non-Hispanic	20.4	(16.8-24.6)
Hispanic	29.3	(23.2-36.4)
<b>Education</b>		
Less than high school	37.5	(33.1-42.1)
High school graduate	30.7	(28.9-32.7)
Some college	21.9	(20.4-23.5)
College graduate	12.0	(10.9-13.1)
<b>Household Income</b>		
< \$20,000	36.0	(33.0-39.0)
\$20,000 - \$34,999	28.8	(26.4-31.4)
\$35,000 - \$49,999	25.0	(22.4-27.9)
\$50,000 - \$74,999	21.5	(19.0-24.3)
\$75,000 +	12.1	(10.8-13.6)
<sup>a</sup> 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 = 12,015)		

**Table 10: Cigarette Smoking  
2016 Michigan BRFSS**

	Current Smoking <sup>a</sup>		Former Smoking <sup>b</sup>		Never Smoked	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>20.4</b>	<b>(19.4-21.4)</b>	<b>25.8</b>	<b>(24.8-26.8)</b>	<b>53.8</b>	<b>(52.6-54.9)</b>
<b>Age</b>						
18 – 24	18.3	(15.4-21.7)	6.5	(4.8-8.6)	75.2	(71.6-78.6)
25 – 34	25.3	(22.4-28.6)	16.3	(14.0-19.0)	58.3	(54.9-61.7)
35 – 44	26.9	(24.0-30.1)	22.7	(20.1-25.4)	50.4	(47.1-53.6)
45 – 54	24.9	(22.5-27.5)	23.1	(20.9-25.5)	52.0	(49.2-54.7)
55 – 64	21.8	(19.8-23.8)	32.3	(30.1-34.5)	46.0	(43.7-48.3)
65 – 74	12.2	(10.6-14.1)	43.9	(41.4-46.4)	43.9	(41.4-46.4)
75 +	5.5	(4.1-7.2)	42.9	(39.8-46.0)	51.7	(48.6-54.8)
<b>Gender</b>						
Male	22.3	(20.8-23.9)	28.1	(26.7-29.6)	49.6	(47.9-51.3)
Female	18.7	(17.4-20.0)	23.6	(22.4-24.9)	57.7	(56.2-59.3)
<b>Race/Ethnicity</b>						
White non-Hispanic	19.5	(18.5-20.7)	29.1	(27.9-30.2)	51.4	(50.1-52.7)
Black non-Hispanic	24.9	(21.8-28.3)	14.3	(12.2-16.6)	60.8	(57.3-64.3)
Other non-Hispanic	21.0	(17.2-25.4)	14.0	(11.2-17.4)	65.0	(60.0-69.7)
Hispanic	19.8	(14.7-26.1)	16.1	(12.0-21.4)	64.1	(57.2-70.4)
<b>Education</b>						
Less than high school	39.7	(35.1-44.5)	23.8	(20.3-27.7)	36.5	(31.8-41.5)
High school graduate	25.8	(24.0-27.7)	26.6	(24.8-28.4)	47.6	(45.5-49.7)
Some college	19.0	(17.5-20.7)	27.7	(26.1-29.5)	53.2	(51.2-55.2)
College graduate	7.5	(6.6-8.5)	23.0	(21.6-24.5)	69.5	(67.9-71.1)
<b>Household Income</b>						
< \$20,000	35.7	(32.6-38.9)	22.3	(19.9-24.9)	42.0	(38.9-45.3)
\$20,000 - \$34,999	26.8	(24.2-29.6)	27.4	(25.0-29.8)	45.8	(43.0-48.7)
\$35,000 - \$49,999	21.0	(18.3-23.9)	27.9	(25.3-30.7)	51.1	(47.9-54.3)
\$50,000 - \$74,999	14.7	(12.6-17.1)	28.9	(26.3-31.6)	56.4	(53.3-59.5)
\$75,000 +	11.0	(9.6-12.7)	25.5	(23.7-27.5)	63.4	(61.3-65.5)

<sup>a</sup> 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 = 11,668)

<sup>b</sup> 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 = 11,668)

<b>Table 11: Current Smokers Who Attempted to Quit 2016 Michigan BRFSS</b>		
	<b>Tried to Quit Smoking One Day or Longer in Past Year<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>58.8</b>	<b>(56.0-61.5)</b>
<b>Age</b>		
18 – 24	66.9	(57.5-75.1)
25 – 34	64.1	(57.1-70.5)
35 – 44	60.2	(53.4-66.6)
45 – 54	53.9	(48.0-59.7)
55 – 64	55.7	(50.3-60.9)
65 – 74	52.6	(45.0-60.1)
75 +	55.0	(40.9-68.4)
<b>Gender</b>		
Male	55.9	(51.9-59.9)
Female	62.0	(58.2-65.6)
<b>Race/Ethnicity</b>		
White non-Hispanic	55.3	(52.1-58.5)
Black non-Hispanic	73.6	(66.5-79.6)
Other non-Hispanic	63.3	(52.8-72.6)
Hispanic	55.6	(39.4-70.7)
<b>Education</b>		
Less than high school	59.6	(52.1-66.8)
High school graduate	56.2	(52.0-60.4)
Some college	61.1	(56.5-65.5)
College graduate	58.7	(52.0-65.1)
<b>Household Income</b>		
< \$20,000	62.6	(57.2-67.8)
\$20,000 - \$34,999	65.3	(59.6-70.6)
\$35,000 - \$49,999	53.1	(45.4-60.6)
\$50,000 - \$74,999	50.7	(42.4-59.0)
\$75,000 +	54.3	(46.8-61.6)
<sup>a</sup> 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 = 1,973)		

<b>Table 12: E-Cigarette Use 2016 Michigan BRFSS</b>		
	<b>Current E-Cigarette Use<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>4.9</b>	<b>(4.4-5.5)</b>
<b>Age</b>		
18 – 24	11.6	(9.1-14.7)
25 – 34	6.5	(5.1-8.3)
35 – 44	5.8	(4.5-7.5)
45 – 54	3.8	(2.9-5.0)
55 – 64	3.8	(3.0-4.7)
65 – 74	1.5	(1.0-2.2)
75 +	0.4	(0.1-1.1)
<b>Gender</b>		
Male	5.6	(4.8-6.6)
Female	4.3	(3.6-5.1)
<b>Race/Ethnicity</b>		
White non-Hispanic	5.2	(4.6-5.9)
Black non-Hispanic	3.6	(2.5-5.3)
Other non-Hispanic	4.6	(3.1-6.8)
Hispanic	-- <sup>b</sup>	-- <sup>b</sup>
<b>Education</b>		
Less than high school	7.1	(4.8-10.4)
High school graduate	6.0	(5.0-7.1)
Some college	5.5	(4.7-6.6)
College graduate	1.9	(1.4-2.5)
<b>Household Income</b>		
< \$20,000	6.4	(4.9-8.4)
\$20,000 - \$34,999	6.5	(5.3-8.1)
\$35,000 - \$49,999	5.6	(4.1-7.7)
\$50,000 - \$74,999	4.0	(2.9-5.5)
\$75,000 +	3.0	(2.3-4.0)
<sup>a</sup> 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 = 11,635) <sup>b</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

<b>Table 13: Smokeless Tobacco Use 2016 Michigan BRFSS</b>		
	<b>Current Smokeless Tobacco Use<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>3.6</b>	<b>(3.2-4.1)</b>
<b>Age</b>		
18 – 24	5.3	(3.8-7.4)
25 – 34	5.7	(4.3-7.5)
35 – 44	4.4	(3.3-5.9)
45 – 54	4.3	(3.3-5.5)
55 – 64	2.1	(1.5-3.0)
65 – 74	1.5	(1.0-2.2)
75 +	0.7	(0.4-1.2)
<b>Gender</b>		
Male	6.2	(5.4-7.1)
Female	1.1	(0.8-1.6)
<b>Race/Ethnicity</b>		
White non-Hispanic	3.9	(3.4-4.5)
Black non-Hispanic	1.7	(1.0-2.8)
Other non-Hispanic	3.4	(2.1-5.6)
Hispanic	-- <sup>b</sup>	-- <sup>b</sup>
<b>Education</b>		
Less than high school	3.4	(2.2-5.4)
High school graduate	4.8	(3.9-5.9)
Some college	3.5	(2.8-4.3)
College graduate	2.5	(1.9-3.2)
<b>Household Income</b>		
< \$20,000	3.4	(2.4-4.9)
\$20,000 - \$34,999	3.7	(2.8-4.9)
\$35,000 - \$49,999	4.0	(2.9-5.6)
\$50,000 - \$74,999	2.8	(1.9-4.1)
\$75,000 +	4.3	(3.4-5.5)
<sup>a</sup> Among all adults, the proportion who reported that they currently use chewing tobacco, snuff or snus, either every day or on some days. (N = 11,702)		
<sup>b</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		



<b>Table 14: Hookah Use 2016 Michigan BRFSS</b>		
	<b>Current Hookah Use<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>4.0</b>	<b>(3.3-4.7)</b>
<b>Age</b>		
18 – 24	8.1	(5.6-11.6)
25 – 34	6.5	(4.5-9.4)
35 – 44	3.9	(2.4-6.2)
45 – 54	4.1	(2.8-6.0)
55 – 64	2.9	(2.0-4.2)
65 – 74	1.3	(0.8-2.2)
75 +	-- <sup>b</sup>	-- <sup>b</sup>
<b>Gender</b>		
Male	4.6	(3.7-5.8)
Female	3.3	(2.5-4.3)
<b>Race/Ethnicity</b>		
White non-Hispanic	3.5	(2.9-4.3)
Black non-Hispanic	6.4	(4.2-9.6)
Other non-Hispanic	-- <sup>b</sup>	-- <sup>b</sup>
Hispanic	-- <sup>b</sup>	-- <sup>b</sup>
<b>Education</b>		
Less than high school	8.8	(5.6-13.6)
High school graduate	4.3	(3.2-5.7)
Some college	3.7	(2.8-4.8)
College graduate	1.9	(1.3-2.7)
<b>Household Income</b>		
< \$20,000	5.7	(3.8-8.4)
\$20,000 - \$34,999	6.1	(4.4-8.6)
\$35,000 - \$49,999	3.0	(1.8-5.1)
\$50,000 - \$74,999	3.1	(1.9-5.0)
\$75,000 +	2.0	(1.3-3.1)
<sup>a</sup> 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 = 7,401) <sup>b</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

**Table 15: Alcohol Consumption  
2016 Michigan BRFSS**

	Any Alcohol in Past Month <sup>a</sup>		Heavy Drinking <sup>b</sup>		Binge Drinking <sup>c</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>57.2</b>	<b>(56.0-58.3)</b>	<b>6.9</b>	<b>(6.3-7.5)</b>	<b>19.0</b>	<b>(18.1-20.0)</b>
<b>Age</b>						
18 – 24	55.3	(51.2-59.3)	9.1	(6.9-11.9)	29.8	(26.1-33.7)
25 – 34	65.0	(61.5-68.3)	7.8	(6.2-9.8)	29.1	(26.0-32.3)
35 – 44	63.3	(60.0-66.4)	7.1	(5.6-8.9)	22.7	(20.1-25.6)
45 – 54	60.6	(57.9-63.3)	7.8	(6.5-9.4)	20.2	(18.1-22.5)
55 – 64	55.8	(53.4-58.1)	6.6	(5.5-7.8)	13.7	(12.1-15.5)
65 – 74	51.6	(49.1-54.1)	5.7	(4.7-7.0)	9.2	(7.8-10.9)
75 +	40.9	(38.0-44.0)	2.8	(2.0-4.0)	2.8	(2.0-3.9)
<b>Gender</b>						
Male	62.1	(60.4-63.8)	7.4	(6.5-8.4)	24.0	(22.5-25.6)
Female	52.5	(51.0-54.1)	6.4	(5.7-7.3)	14.4	(13.2-15.6)
<b>Race/Ethnicity</b>						
White non-Hispanic	59.9	(58.6-61.1)	7.5	(6.9-8.3)	20.0	(18.9-21.1)
Black non-Hispanic	51.4	(47.7-55.0)	3.5	(2.3-5.2)	15.0	(12.4-17.9)
Other non-Hispanic	46.8	(41.5-52.2)	5.9	(3.7-9.4)	14.2	(10.9-18.2)
Hispanic	42.2	(35.6-49.0)	7.8	(4.9-12.1)	19.5	(14.7-25.3)
<b>Education</b>						
Less than high school	35.3	(30.7-40.2)	5.0	(3.3-7.6)	15.7	(12.3-20.0)
High school graduate	49.2	(47.1-51.3)	7.0	(6.0-8.3)	17.5	(15.9-19.4)
Some college	61.9	(59.9-63.8)	7.5	(6.5-8.7)	20.3	(18.6-22.1)
College graduate	70.2	(68.5-71.8)	6.7	(5.8-7.7)	20.4	(18.9-21.9)
<b>Household Income</b>						
< \$20,000	42.1	(39.0-45.3)	5.6	(4.4-7.2)	16.8	(14.4-19.5)
\$20,000 - \$34,999	48.6	(45.7-51.4)	6.3	(4.9-7.9)	17.7	(15.4-20.2)
\$35,000 - \$49,999	58.8	(55.5-61.9)	9.0	(7.1-11.2)	19.2	(16.6-22.1)
\$50,000 - \$74,999	64.1	(60.9-67.1)	7.0	(5.7-8.6)	21.7	(19.2-24.4)
\$75,000 +	74.6	(72.6-76.6)	8.4	(7.2-9.8)	24.3	(22.4-26.4)

<sup>a</sup> Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month. (N = 11,532)

<sup>b</sup> 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 = 11,439)

<sup>c</sup> 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 = 11,432)

<b>Table 16: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers 2016 Michigan BRFSS</b>		
	<b>Number of Binge Drinking Occasions<sup>a</sup></b>	
	<b>Mean</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>4.6</b>	<b>(4.2-5.0)</b>
<b>Age</b>		
18 – 24	4.3	(3.4-5.1)
25 – 34	3.9	(3.3-4.6)
35 – 44	4.7	(3.7-5.8)
45 – 54	4.8	(4.0-5.7)
55 – 64	5.4	(4.2-6.6)
65 – 74	5.1	(3.8-6.4)
75+	5.6	(2.7-8.4)
<b>Gender</b>		
Male	5.4	(4.8-6.0)
Female	3.3	(2.9-3.7)
<b>Race/Ethnicity</b>		
White non-Hispanic	4.5	(4.1-5.0)
Black non-Hispanic	4.4	(3.3-5.4)
Other non-Hispanic	5.1	(3.1-7.1)
Hispanic	5.2	(3.4-7.1)
<b>Education</b>		
Less than high school	6.8	(4.7-8.8)
High school graduate	5.8	(4.8-6.7)
Some college	4.1	(3.6-4.6)
College graduate	3.4	(3.0-3.7)
<b>Household Income</b>		
< \$20,000	4.8	(3.8-5.8)
\$20,000 - \$34,999	4.9	(3.9-5.9)
\$35,000 - \$49,999	5.9	(4.3-7.4)
\$50,000 - \$74,999	3.9	(3.2-4.5)
\$75,000 +	4.0	(3.4-4.6)
<sup>a</sup> 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 = 1,818)		

<b>Table 17: Drove Motor Vehicle After Drinking 2016 Michigan BRFSS</b>		
	<b>Drove Motor Vehicle After Drinking<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>3.6</b>	<b>(3.0-4.3)</b>
<b>Age</b>		
18 – 24	6.1	(3.7-9.8)
25 – 34	4.6	(3.0-7.0)
35 – 44	2.5	(1.5-4.3)
45 – 54	4.6	(3.4-6.3)
55 – 64	2.7	(1.9-3.9)
65 – 74	1.9	(1.1-3.2)
75 +	-- <sup>b</sup>	-- <sup>b</sup>
<b>Gender</b>		
Male	5.1	(4.1-6.3)
Female	2.0	(1.5-2.8)
<b>Race/Ethnicity</b>		
White non-Hispanic	3.5	(2.8-4.3)
Black non-Hispanic	3.7	(2.2-6.0)
Other non-Hispanic	-- <sup>b</sup>	-- <sup>b</sup>
Hispanic	-- <sup>b</sup>	-- <sup>b</sup>
<b>Education</b>		
Less than high school	-- <sup>b</sup>	-- <sup>b</sup>
High school graduate	4.5	(3.2-6.2)
Some college	3.4	(2.6-4.6)
College graduate	2.8	(2.2-3.6)
<b>Household Income</b>		
< \$20,000	4.1	(2.4-6.9)
\$20,000 - \$34,999	3.6	(2.4-5.5)
\$35,000 - \$49,999	3.6	(2.3-5.6)
\$50,000 - \$74,999	4.4	(3.0-6.5)
\$75,000 +	3.7	(2.7-4.9)
<sup>a</sup> 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 = 6,596) <sup>b</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

<b>Table 18: Seatbelt Use 2016 Michigan BRFSS</b>		
	<b>Always Uses a Seatbelt<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>88.9</b>	<b>(88.0-89.6)</b>
<b>Age</b>		
18 – 24	77.1	(73.4-80.4)
25 – 34	86.8	(84.2-89.0)
35 – 44	88.7	(86.3-90.7)
45 – 54	91.5	(89.8-92.9)
55 – 64	91.8	(90.4-93.0)
65 – 74	93.4	(92.0-94.6)
75 +	92.8	(90.9-94.3)
<b>Gender</b>		
Male	84.8	(83.4-86.0)
Female	92.7	(91.7-93.6)
<b>Race/Ethnicity</b>		
White non-Hispanic	89.5	(88.6-90.4)
Black non-Hispanic	88.3	(85.7-90.5)
Other non-Hispanic	86.9	(82.7-90.2)
Hispanic	81.9	(75.3-87.0)
<b>Education</b>		
Less than high school	82.6	(78.3-86.2)
High school graduate	87.7	(86.2-89.2)
Some college	88.8	(87.5-90.0)
College graduate	93.0	(92.1-93.9)
<b>Household Income</b>		
< \$20,000	84.4	(81.6-86.8)
\$20,000 - \$34,999	87.8	(85.7-89.7)
\$35,000 - \$49,999	89.2	(86.8-91.2)
\$50,000 - \$74,999	89.0	(86.7-91.0)
\$75,000 +	92.0	(90.7-93.1)
<sup>a</sup> Among all adults, the proportion who reported always using a seatbelt when driving or riding in a car. (N = 11,517)		

<b>Table 19: No Routine Checkup in Past Year 2016 Michigan BRFSS</b>		
	<b>Had No Routine Checkup in Past Year<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>26.9</b>	<b>(25.9-28.0)</b>
<b>Age</b>		
18 - 24	34.4	(30.7-38.2)
25 - 34	43.0	(39.7-46.4)
35 - 44	32.8	(29.8-35.9)
45 - 54	25.9	(23.6-28.3)
55 - 64	21.2	(19.3-23.2)
65 - 74	13.8	(12.1-15.7)
75 +	10.2	(8.5-12.2)
<b>Gender</b>		
Male	30.7	(29.1-32.3)
Female	23.4	(22.1-24.8)
<b>Race/Ethnicity</b>		
White non-Hispanic	27.2	(26.1-28.4)
Black non-Hispanic	19.6	(16.8-22.7)
Other non-Hispanic	31.3	(26.6-36.4)
Hispanic	38.2	(31.5-45.3)
<b>Education</b>		
Less than high school	30.9	(26.5-35.7)
High school graduate	26.2	(24.4-28.1)
Some college	27.3	(25.5-29.2)
College graduate	25.7	(24.1-27.3)
<b>Household Income</b>		
< \$20,000	28.5	(25.6-31.6)
\$20,000 - \$34,999	29.1	(26.5-31.8)
\$35,000 - \$49,999	29.6	(26.6-32.8)
\$50,000 - \$74,999	26.5	(23.7-29.4)
\$75,000 +	24.3	(22.4-26.2)
<sup>a</sup> Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 11,887)		

**Table 20: Mammography Indicators Among Women Aged 40 Years and Older  
2016 Michigan BRFS**

	Ever Had Mammogram <sup>a</sup>		Had Mammogram in Past Year <sup>b</sup>		Had Mammogram in Past Two Years <sup>c</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>92.7</b>	<b>(91.6-93.6)</b>	<b>57.0</b>	<b>(55.3-58.7)</b>	<b>74.0</b>	<b>(72.4-75.5)</b>
<b>Age</b>						
40 - 49	81.1	(77.6-84.1)	47.2	(43.2-51.2)	64.7	(60.6-68.5)
50 - 59	94.8	(92.7-96.4)	59.2	(55.8-62.5)	78.3	(75.3-81.0)
60 - 69	96.7	(95.0-97.8)	64.3	(61.1-67.3)	78.2	(75.3-80.8)
70 +	97.4	(96.1-98.3)	56.6	(53.5-59.7)	73.9	(71.0-76.5)
<b>Race/Ethnicity</b>						
White non-Hispanic	93.1	(92.0-94.1)	57.1	(55.2-58.9)	73.8	(72.1-75.5)
Black non-Hispanic	91.2	(86.7-94.2)	61.0	(55.7-66.1)	77.5	(72.5-81.8)
Other non-Hispanic	-- <sup>d</sup>	-- <sup>d</sup>	48.7	(39.0-58.5)	72.7	(63.7-80.1)
Hispanic	-- <sup>d</sup>	-- <sup>d</sup>	53.7	(40.7-66.2)	70.2	(57.3-80.6)
<b>Education</b>						
< High school	89.5	(83.3-93.6)	44.3	(36.8-52.1)	63.3	(55.5-70.4)
High school graduate	92.5	(90.4-94.1)	55.3	(52.1-58.4)	71.9	(69.0-74.7)
Some college	92.4	(90.4-94.0)	57.9	(54.9-60.7)	74.4	(71.7-76.9)
College graduate	94.4	(92.7-95.8)	62.5	(59.7-65.3)	79.7	(77.2-81.9)
<b>Household Income</b>						
< \$20,000	90.4	(86.9-93.1)	49.9	(45.3-54.6)	65.7	(61.1-70.1)
\$20,000 - \$34,999	91.8	(88.7-94.0)	50.9	(46.8-54.9)	70.5	(66.6-74.1)
\$35,000 - \$49,999	89.7	(85.4-92.9)	55.8	(50.7-60.8)	70.9	(65.8-75.6)
\$50,000 - \$74,999	94.9	(92.2-96.7)	58.5	(53.8-63.1)	78.2	(74.0-81.9)
\$75,000 +	93.0	(90.7-94.8)	63.7	(60.2-67.0)	79.7	(76.6-82.4)

Note: Data included diagnostic tests.

<sup>a</sup> Among women aged 40 years and older, the proportion who reported ever having a mammogram. (N = 4,988)

<sup>b</sup> Among women aged 40 years and older, the proportion who reported having a mammogram in the past year. (N = 4,943)

<sup>c</sup> Among women aged 40 years and older, the proportion who reported having a mammogram in the past two years.

(N = 4,943)

<sup>d</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

**Table 21: Cervical Cancer Screening Among Women Aged 18 Years and Older  
2016 Michigan BRFS**

	Ever Had Pap Test <sup>a</sup>		Had Appropriately Timed Pap Test <sup>b</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>88.1</b>	<b>(86.6-89.6)</b>	<b>72.5</b>	<b>(70.7-74.3)</b>
<b>Age</b>				
18 - 29	61.4	(56.6-66.0)	56.2	(51.5-60.9)
30 - 39	95.6	(92.6-97.5)	84.9	(80.6-88.3)
40 - 49	-- <sup>c</sup>	-- <sup>c</sup>	86.6	(83.4-89.3)
50 - 59	-- <sup>c</sup>	-- <sup>c</sup>	83.6	(80.2-86.4)
60 - 69	-- <sup>c</sup>	-- <sup>c</sup>	78.7	(75.1-81.8)
70 +	94.4	(91.6-96.3)	43.5	(39.2-47.9)
<b>Race/Ethnicity</b>				
White non-Hispanic	90.5	(88.8-92.0)	73.5	(71.5-75.4)
Black non-Hispanic	83.0	(77.6-87.3)	74.8	(69.1-79.7)
Other non-Hispanic	74.9	(65.4-82.5)	61.5	(52.0-70.2)
Hispanic	78.0	(67.8-85.7)	63.3	(52.7-72.8)
<b>Education</b>				
Less than high school	78.7	(69.5-85.7)	56.9	(47.7-65.6)
High school graduate	86.9	(83.8-89.4)	66.2	(62.7-69.5)
Some college	87.0	(84.1-89.4)	73.1	(70.0-76.0)
College graduate	94.1	(92.3-95.4)	83.0	(80.8-85.0)
<b>Household Income</b>				
< \$20,000	82.1	(77.2-86.1)	63.1	(57.8-68.0)
\$20,000 - \$34,999	89.2	(85.9-91.9)	69.2	(65.1-73.1)
\$35,000 - \$49,999	92.6	(88.5-95.3)	74.9	(70.0-79.3)
\$50,000 - \$74,999	92.0	(87.3-95.0)	78.4	(73.5-82.6)
\$75,000 +	90.7	(87.2-93.3)	81.8	(78.3-84.9)

Note: Data includes diagnostic tests and excludes women who have had a hysterectomy.

<sup>a</sup> Among women aged 18 years and older, the proportion who reported ever having a Pap test. (N = 4,509)

<sup>b</sup> Among women aged 18 years and older, the proportion who reported having a Pap test within the previous three years. (N = 4,436)

<sup>c</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.



**Table 22: Prostate Cancer Screening Among Men Aged 50 Years and Older  
2016 Michigan BRFSS**

	Ever Discussed Advantages of PSA Test With Doctor <sup>a</sup>		Doctor Ever Recommended PSA Test <sup>b</sup>		Ever Had PSA Test <sup>c</sup>		Had PSA Test in Past Year <sup>d</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>71.1</b>	<b>(69.0-73.1)</b>	<b>64.6</b>	<b>(62.4-66.7)</b>	<b>68.0</b>	<b>(65.8-70.0)</b>	<b>41.1</b>	<b>(38.9-43.2)</b>
<b>Age</b>								
50 - 59	60.7	(56.9-64.4)	53.7	(50.0-57.5)	53.0	(49.2-56.8)	28.2	(24.9-31.6)
60 - 69	77.5	(74.2-80.5)	70.3	(66.8-73.6)	74.7	(71.3-77.8)	49.1	(45.4-52.7)
70 +	78.4	(75.0-81.5)	73.1	(69.5-76.4)	81.4	(78.0-84.4)	50.1	(46.1-54.0)
<b>Race/Ethnicity</b>								
White non-Hispanic	72.0	(69.7-74.1)	65.7	(63.5-67.9)	69.4	(67.1-71.6)	42.7	(40.4-45.0)
Black non-Hispanic	70.3	(62.5-77.1)	64.5	(56.2-71.9)	64.2	(56.0-71.6)	35.3	(27.8-43.6)
Other non-Hispanic	57.0	(46.1-67.3)	46.9	(36.6-57.4)	50.5	(39.9-61.1)	29.6	(21.1-39.9)
Hispanic	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>
<b>Education</b>								
< High school	57.6	(48.9-65.9)	52.1	(43.3-60.7)	53.3	(44.3-62.2)	28.2	(20.8-37.0)
High school graduate	64.9	(61.0-68.7)	58.4	(54.3-62.3)	61.4	(57.4-65.3)	34.5	(30.8-38.4)
Some college	72.7	(69.0-76.1)	66.4	(62.6-70.0)	69.6	(65.8-73.1)	44.2	(40.3-48.1)
College graduate	83.1	(80.5-85.4)	75.2	(72.3-78.0)	80.0	(77.1-82.5)	50.6	(47.3-53.8)
<b>Household Income</b>								
< \$20,000	50.5	(43.6-57.5)	41.8	(35.1-48.9)	44.5	(37.5-51.7)	23.5	(18.0-30.1)
\$20,000 - \$34,999	63.0	(57.5-68.2)	59.4	(54.0-64.7)	59.8	(54.1-65.3)	33.5	(28.4-38.9)
\$35,000 - \$49,999	78.0	(72.8-82.4)	66.5	(60.9-71.6)	72.3	(66.8-77.2)	44.7	(39.3-50.1)
\$50,000 - \$74,999	80.0	(75.1-84.1)	73.1	(67.7-77.8)	73.4	(67.8-78.4)	49.7	(44.1-55.4)
\$75,000 +	79.4	(76.0-82.4)	74.1	(70.6-77.4)	77.6	(74.2-80.7)	46.9	(43.1-50.8)

Among men aged 50 years and older (N = 3,037), the proportion who reported...

<sup>a</sup> ever discussing the advantages of a Prostate-Specific Antigen (PSA) test with a doctor, nurse, or other health professional.

<sup>b</sup> ever receiving a recommendation from a doctor, nurse, or other health professional to get a PSA test.

<sup>c</sup> ever having a PSA test.

<sup>d</sup> having a PSA test within the past year.

<sup>e</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

<b>Table 23: Colorectal Cancer Screening (Blood Stool Test) Among Adults Aged 50 Years and Older 2016 Michigan BRFS</b>				
	<b>Ever Had Blood Stool Test<sup>a</sup></b>		<b>Had Blood Stool Test in Past Two Years<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>35.0</b>	<b>(33.7-36.3)</b>	<b>8.7</b>	<b>(7.8-9.6)</b>
<b>Age</b>				
50 - 59	22.3	(20.4-24.4)	6.3	(5.2-7.6)
60 - 69	39.6	(37.3-41.9)	10.2	(8.8-11.7)
70 +	46.1	(43.7-48.6)	11.7	(9.6-14.3)
<b>Gender</b>				
Male	31.8	(29.9-33.7)	7.9	(6.8-9.2)
Female	37.8	(36.0-39.6)	9.4	(8.2-10.7)
<b>Race/Ethnicity</b>				
White non-Hispanic	36.4	(35.0-37.8)	9.0	(8.1-10.0)
Black non-Hispanic	28.5	(24.4-33.0)	7.0	(4.8-10.2)
Other non-Hispanic	28.3	(22.0-35.5)	9.6	(5.7-15.9)
Hispanic	21.3	(13.0-32.9)	-- <sup>c</sup>	-- <sup>c</sup>
<b>Education</b>				
Less than high school	28.1	(23.3-33.4)	7.9	(4.9-12.3)
High school graduate	34.3	(32.0-36.7)	8.8	(7.3-10.4)
Some college	36.1	(33.9-38.5)	8.3	(7.0-9.9)
College graduate	37.5	(35.3-39.6)	9.3	(8.0-10.9)
<b>Household Income</b>				
< \$20,000	28.4	(25.0-32.0)	8.9	(6.7-11.6)
\$20,000 - \$34,999	34.5	(31.4-37.6)	8.7	(6.7-11.1)
\$35,000 - \$49,999	37.7	(34.2-41.3)	8.6	(6.8-10.9)
\$50,000 - \$74,999	36.8	(33.4-40.4)	8.2	(6.3-10.5)
\$75,000 +	32.9	(30.4-35.5)	7.3	(6.0-8.9)
<sup>a</sup> Among adults aged 50 years and older, the proportion who reported ever having a blood stool test using a home kit. (N = 7,208)				
<sup>b</sup> Among adults aged 50 years and older, the proportion whose reported having a blood stool test within the past two years using a home kit (N = 5,777)				
<sup>c</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.				

**Table 24: Colorectal Cancer Screening (Sigmoidoscopy/Colonoscopy)  
Among Adults Aged 50 Years and Older  
2016 Michigan BRFSS**

	Ever Had a Sigmoidoscopy or Colonoscopy <sup>a</sup>		Had a Sigmoidoscopy or Colonoscopy in Past 5 Years <sup>b</sup>		Had a Sigmoidoscopy in Past 5 Years or Colonoscopy in Past 10 Years <sup>c</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>73.7</b>	<b>(72.4-75.0)</b>	<b>54.1</b>	<b>(52.7-55.6)</b>	<b>67.1</b>	<b>(65.7-68.4)</b>
<b>Age</b>						
50 - 59	62.8	(60.4-65.3)	49.1	(46.6-51.7)	59.1	(56.6-61.6)
60 - 69	79.3	(77.2-81.3)	57.3	(54.9-59.7)	72.8	(70.5-74.9)
70 +	81.4	(79.3-83.3)	57.0	(54.5-59.4)	71.0	(68.6-73.2)
<b>Gender</b>						
Male	73.2	(71.2-75.2)	54.5	(52.4-56.7)	66.8	(64.6-68.9)
Female	74.2	(72.4-75.9)	53.8	(51.9-55.6)	67.3	(65.5-69.1)
<b>Race/Ethnicity</b>						
White non-Hispanic	74.9	(73.5-76.3)	54.0	(52.5-55.5)	68.0	(66.5-69.4)
Black non-Hispanic	68.1	(63.2-72.6)	55.5	(50.5-60.4)	63.9	(58.9-68.6)
Other non-Hispanic	66.4	(58.2-73.6)	51.6	(43.6-59.5)	59.9	(51.7-67.5)
Hispanic	72.1	(58.4-82.6)	60.4	(47.1-72.3)	65.3	(51.5-76.9)
<b>Education</b>						
Less than high school	60.5	(54.4-66.2)	46.4	(40.4-52.6)	53.6	(47.4-59.7)
High school graduate	70.1	(67.7-72.4)	50.8	(48.3-53.3)	62.9	(60.4-65.3)
Some college	77.1	(74.9-79.1)	57.6	(55.2-60.0)	70.5	(68.2-72.7)
College graduate	79.8	(77.8-81.7)	57.1	(54.8-59.4)	73.7	(71.5-75.7)
<b>Household Income</b>						
< \$20,000	61.8	(57.6-65.8)	47.2	(43.0-51.4)	54.6	(50.4-58.8)
\$20,000 - \$34,999	69.2	(65.9-72.3)	48.9	(45.6-52.3)	60.6	(57.1-63.9)
\$35,000 - \$49,999	77.1	(73.6-80.2)	56.4	(52.6-60.1)	70.8	(67.1-74.3)
\$50,000 - \$74,999	76.9	(73.4-80.1)	56.6	(52.8-60.3)	70.4	(66.7-73.9)
\$75,000 +	79.5	(77.0-81.8)	59.5	(56.7-62.2)	75.2	(72.6-77.6)

<sup>a</sup> Among adults aged 50 years and older, the proportion who reported ever having a sigmoidoscopy or colonoscopy. (N = 7,205)

<sup>b</sup> Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy or colonoscopy in the past five years. (N = 7,117)

<sup>c</sup> 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 = 7,014)

<b>Table 25: Appropriate Colorectal Cancer Screening Among Adults 50 Years and Older 2016 Michigan BRFSS</b>		
	<b>Appropriate Colorectal Cancer Screening<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>69.7</b>	<b>(68.3-71.0)</b>
<b>Age</b>		
50 - 59	61.5	(59.0-64.0)
60 - 69	75.4	(73.2-77.5)
70 +	73.7	(71.4-75.9)
<b>Gender</b>		
Male	69.4	(67.3-71.5)
Female	69.9	(68.1-71.6)
<b>Race/Ethnicity</b>		
White non-Hispanic	70.7	(69.2-72.1)
Black non-Hispanic	65.8	(60.8-70.4)
Other non-Hispanic	63.8	(55.8-71.2)
Hispanic	66.0	(52.1-77.6)
<b>Education</b>		
Less than high school	57.2	(51.0-63.2)
High school graduate	65.1	(62.6-67.5)
Some college	73.1	(70.8-75.3)
College graduate	76.3	(74.2-78.3)
<b>Household Income</b>		
< \$20,000	57.9	(53.7-62.1)
\$20,000 - \$34,999	63.8	(60.4-67.1)
\$35,000 - \$49,999	72.6	(68.9-76.0)
\$50,000 - \$74,999	72.5	(68.9-75.9)
\$75,000 +	77.0	(74.4-79.3)
<sup>a</sup> 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 = 7,032)		

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<b>Table 26: Oral Health 2016 Michigan BRFSS</b>				
	<b>No Dental Visit in Past Year<sup>a</sup></b>		<b>6+ Teeth Missing<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>29.9</b>	<b>(28.8-31.0)</b>	<b>16.0</b>	<b>(15.2-16.8)</b>
<b>Age</b>				
18 - 24	30.3	(26.8-34.1)	1.5	(0.8-2.9)
25 - 34	38.5	(35.2-41.8)	4.9	(3.7-6.4)
35 - 44	28.9	(25.9-32.0)	7.5	(5.8-9.5)
45 - 54	29.3	(26.8-31.9)	13.6	(11.8-15.7)
55 - 64	27.3	(25.2-29.4)	24.1	(22.1-26.3)
65 - 74	25.2	(23.0-27.5)	31.6	(29.2-34.1)
75 +	30.1	(27.2-33.1)	-- <sup>c</sup>	-- <sup>c</sup>
<b>Gender</b>				
Male	33.8	(32.2-35.4)	15.2	(14.0-16.4)
Female	26.3	(24.9-27.7)	16.8	(15.8-17.9)
<b>Race/Ethnicity</b>				
White non-Hispanic	28.2	(27.1-29.4)	15.9	(15.0-16.8)
Black non-Hispanic	36.3	(33.0-39.8)	20.2	(17.7-22.9)
Other non-Hispanic	35.3	(30.4-40.5)	12.9	(10.4-15.8)
Hispanic	33.8	(27.4-40.9)	10.3	(6.9-15.1)
<b>Education</b>				
Less than high school	48.2	(43.5-53.1)	36.1	(31.9-40.6)
High school graduate	36.6	(34.6-38.6)	20.6	(19.1-22.1)
Some college	28.5	(26.7-30.3)	13.4	(12.3-14.6)
College graduate	15.7	(14.4-17.1)	5.2	(4.6-5.9)
<b>Household Income</b>				
< \$20,000	49.4	(46.2-52.7)	30.8	(28.0-33.6)
\$20,000 - \$34,999	41.6	(38.8-44.4)	23.4	(21.2-25.7)
\$35,000 - \$49,999	32.6	(29.5-35.8)	16.4	(14.2-18.7)
\$50,000 - \$74,999	22.0	(19.4-24.7)	10.0	(8.3-11.9)
\$75,000 +	13.3	(11.8-14.9)	4.7	(3.9-5.6)
<sup>a</sup> 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 = 11,886) <sup>b</sup> 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 = 11,759) <sup>c</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.				

<b>Table 27: Immunizations among Adults Aged 65 Years and Older 2016 Michigan BRFSS</b>				
	<b>Had Flu Vaccine in Past Year<sup>a</sup></b>		<b>Ever Had Pneumonia Vaccine<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>56.1</b>	<b>(54.1-58.0)</b>	<b>71.8</b>	<b>(70.0-73.6)</b>
<b>Age</b>				
65 - 74	53.2	(50.7-55.7)	66.8	(64.4-69.2)
75 +	60.3	(57.2-63.3)	78.8	(76.1-81.4)
<b>Gender</b>				
Male	55.3	(52.3-58.3)	69.3	(66.4-72.1)
Female	56.7	(54.2-59.3)	73.8	(71.4-76.0)
<b>Race/Ethnicity</b>				
White non-Hispanic	58.5	(56.4-60.5)	74.5	(72.6-76.3)
Black non-Hispanic	38.9	(32.2-46.0)	53.5	(46.2-60.8)
Other non-Hispanic	48.9	(35.2-62.7)	63.2	(51.2-73.8)
Hispanic	-- <sup>c</sup>	-- <sup>c</sup>	-- <sup>c</sup>	-- <sup>c</sup>
<b>Education</b>				
Less than high school	61.7	(54.2-68.8)	73.2	(65.8-79.6)
High school graduate	53.2	(49.8-56.5)	71.8	(68.6-74.8)
Some college	54.1	(50.7-57.5)	70.4	(67.1-73.5)
College graduate	60.6	(57.5-63.6)	73.1	(70.1-75.9)
<b>Household Income</b>				
< \$20,000	54.3	(48.4-60.1)	68.8	(62.9-74.2)
\$20,000 - \$34,999	52.4	(48.2-56.6)	72.0	(67.9-75.7)
\$35,000 - \$49,999	58.5	(53.7-63.2)	73.8	(69.3-77.9)
\$50,000 - \$74,999	55.7	(50.4-60.9)	73.7	(68.7-78.1)
\$75,000 +	60.6	(56.0-65.1)	69.3	(64.7-73.5)
<sup>a</sup> 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 = 3,812)				
<sup>b</sup> Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 3,734)				
<sup>c</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.				

<b>Table 28: HIV Testing among Adults Aged 18 - 64 Years 2016 Michigan BRFSS</b>		
	<b>Ever Had an HIV Test<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>41.4</b>	<b>(40.0-42.9)</b>
<b>Age</b>		
18 – 24	29.2	(25.6-33.1)
25 – 34	51.0	(47.4-54.5)
35 – 44	57.1	(53.7-60.4)
45 – 54	44.9	(42.1-47.7)
55 – 64	26.0	(24.0-28.2)
<b>Gender</b>		
Male	37.6	(35.6-39.6)
Female	45.2	(43.3-47.2)
<b>Race/Ethnicity</b>		
White non-Hispanic	37.1	(35.5-38.6)
Black non-Hispanic	65.6	(61.5-69.5)
Other non-Hispanic	38.3	(32.9-44.1)
Hispanic	42.8	(35.6-50.3)
<b>Education</b>		
Less than high school	43.1	(37.2-49.3)
High school graduate	38.2	(35.6-40.8)
Some college	44.3	(41.9-46.8)
College graduate	40.4	(38.3-42.6)
<b>Household Income</b>		
< \$20,000	53.6	(49.7-57.4)
\$20,000 - \$34,999	45.6	(42.0-49.4)
\$35,000 - \$49,999	40.5	(36.5-44.6)
\$50,000 - \$74,999	36.6	(33.1-40.3)
\$75,000 +	38.7	(36.2-41.2)
<sup>a</sup> 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 = 7,256)		

<b>Table 29: Asthma among Adults 2016 Michigan BRFSS</b>				
	<b>Lifetime Asthma Prevalence<sup>a</sup></b>		<b>Current Asthma Prevalence<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>16.3</b>	<b>(15.4-17.2)</b>	<b>10.9</b>	<b>(10.2-11.7)</b>
<b>Age</b>				
18 - 24	24.0	(20.7-27.6)	13.4	(10.8-16.5)
25 - 34	17.4	(15.0-20.1)	10.5	(8.7-12.8)
35 - 44	17.1	(14.8-19.6)	11.8	(9.9-14.1)
45 - 54	15.1	(13.3-17.2)	11.3	(9.7-13.1)
55 - 64	15.0	(13.4-16.8)	11.5	(10.1-13.1)
65 - 74	13.4	(11.8-15.2)	9.3	(7.9-10.9)
75 +	10.4	(8.7-12.4)	7.2	(5.8-8.9)
<b>Gender</b>				
Male	14.6	(13.4-15.8)	8.3	(7.4-9.4)
Female	17.9	(16.7-19.1)	13.4	(12.4-14.5)
<b>Race/Ethnicity</b>				
White non-Hispanic	15.9	(14.9-16.9)	10.7	(9.9-11.5)
Black non-Hispanic	21.0	(18.2-24.0)	14.5	(12.1-17.2)
Other non-Hispanic	14.0	(11.2-17.4)	9.2	(7.0-12.1)
Hispanic	12.2	(8.4-17.4)	6.6	(3.8-11.4)
<b>Education</b>				
Less than high school	24.9	(21.0-29.2)	18.8	(15.4-22.7)
High school graduate	16.0	(14.5-17.6)	10.6	(9.4-12.0)
Some college	15.8	(14.4-17.3)	10.6	(9.4-11.9)
College graduate	13.4	(12.2-14.7)	8.3	(7.4-9.4)
<b>Household Income</b>				
< \$20,000	25.1	(22.4-28.0)	18.7	(16.3-21.3)
\$20,000 - \$34,999	17.6	(15.5-19.9)	12.3	(10.5-14.4)
\$35,000 - \$49,999	15.0	(12.8-17.5)	9.9	(8.1-12.0)
\$50,000 - \$74,999	12.3	(10.5-14.3)	7.0	(5.7-8.6)
\$75,000 +	12.8	(11.3-14.4)	7.8	(6.6-9.1)
<sup>a</sup> 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 = 11,984)				
<sup>b</sup> Among all adults, the proportion who reported that they still had asthma. (N = 11,922)				



<b>Table 30: Asthma among Children 2016 Michigan BRFSS</b>				
	<b>Lifetime Asthma Prevalence<sup>a</sup></b>		<b>Current Asthma Prevalence<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>12.5</b>	<b>(11.1-14.1)</b>	<b>8.9</b>	<b>(7.7-10.3)</b>
<b>Age</b>				
0 - 4	5.6	(3.7-8.6)	4.7	(3.0-7.5)
5 - 9	11.6	(8.9-14.9)	8.5	(6.3-11.4)
10 - 14	15.5	(12.8-18.7)	12.3	(9.9-15.2)
15 - 17	19.0	(15.4-23.1)	11.6	(8.8-15.0)
<b>Gender</b>				
Boy	15.7	(13.5-18.2)	11.4	(9.5-13.7)
Girl	9.3	(7.7-11.3)	6.4	(5.2-7.9)
<b>Race/Ethnicity</b>				
White non-Hispanic	10.3	(8.9-12.0)	7.3	(6.0-8.7)
Black non-Hispanic	19.9	(15.4-25.2)	15.8	(11.8-20.8)
Other non-Hispanic	12.9	(8.9-18.4)	9.4	(6.0-14.6)
Hispanic	13.1	(8.0-20.7)	-- <sup>c</sup>	-- <sup>c</sup>
<b>Respondent Education</b>				
Less than high school	11.0	(6.7-17.5)	7.6	(4.4-12.7)
High school graduate	12.9	(10.0-16.5)	9.9	(7.4-13.0)
Some college	16.7	(13.8-20.2)	11.5	(9.1-14.4)
College graduate	9.3	(7.6-11.4)	6.6	(5.1-8.4)
<b>Household Income</b>				
< \$20,000	17.3	(12.8-23.0)	14.0	(9.9-19.4)
\$20,000 - \$34,999	16.3	(12.3-21.2)	10.2	(7.4-14.0)
\$35,000 - \$49,999	11.2	(7.6-16.1)	8.0	(5.2-12.1)
\$50,000 - \$74,999	12.8	(9.3-17.3)	8.3	(5.7-12.1)
\$75,000 +	9.9	(8.0-12.1)	7.0	(5.4-9.0)
<sup>a</sup> 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 = 2,697). <sup>b</sup> Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 2,686) <sup>c</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.				

**Table 31: Chronic Obstructive Pulmonary Disease (COPD)  
2016 Michigan BRFSS**

	Ever Told COPD, Emphysema or Chronic Bronchitis <sup>a</sup>	
	%	95% Confidence Interval
<b>Total</b>	<b>8.9</b>	<b>(8.3-9.6)</b>
<b>Age</b>		
18 - 24	2.4	(1.4-3.8)
25 - 34	4.6	(3.1-6.7)
35 - 44	6.2	(4.8-8.0)
45 - 54	7.7	(6.4-9.3)
55 - 64	14.4	(12.7-16.3)
65 - 75	14.4	(12.7-16.4)
75 +	14.2	(12.2-16.4)
<b>Gender</b>		
Male	7.9	(7.0-8.8)
Female	9.9	(9.0-10.9)
<b>Race/Ethnicity</b>		
White/Non-Hispanic	9.1	(8.3-9.8)
Black/Non-Hispanic	10.0	(8.3-12.1)
Other/Non-Hispanic	7.9	(6.1-10.2)
Hispanic	-- <sup>b</sup>	-- <sup>b</sup>
<b>Education</b>		
Less than high school	22.5	(18.9-26.5)
High school graduate	9.8	(8.7-11.0)
Some college	7.8	(7.0-8.8)
College graduate	3.4	(2.9-4.0)
<b>Household Income</b>		
< \$20,000	19.3	(16.9-22.0)
\$20,000 - \$34,999	10.6	(9.1-12.3)
\$35,000 - \$49,999	8.7	(7.2-10.5)
\$50,000 - \$74,999	5.6	(4.4-7.1)
\$75,000 +	2.9	(2.3-3.7)
<sup>a</sup> 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 = 11,969) <sup>b</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

<b>Table 32: Arthritis 2016 Michigan BRFSS</b>		
<b>Demographic Characteristics</b>	<b>Ever Told Arthritis<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>32.0</b>	<b>(31.0-33.0)</b>
<b>Age</b>		
18 - 24	6.0	(4.3-8.3)
25 - 34	10.1	(8.2-12.4)
35 - 44	20.6	(18.1-23.3)
45 - 54	32.3	(29.8-34.9)
55 - 64	47.9	(45.6-50.2)
65 - 75	55.1	(52.6-57.6)
75 +	64.0	(61.0-66.9)
<b>Gender</b>		
Male	28.0	(26.6-29.4)
Female	35.7	(34.3-37.1)
<b>Race/Ethnicity</b>		
White/Non-Hispanic	33.6	(32.5-34.7)
Black/Non-Hispanic	30.1	(27.1-33.3)
Other/Non-Hispanic	23.7	(20.1-27.7)
Hispanic	18.6	(14.2-24.0)
<b>Education</b>		
Less than high school	39.2	(34.9-43.7)
High school graduate	36.3	(34.4-38.2)
Some college	32.1	(30.4-33.9)
College graduate	23.3	(21.9-24.7)
<b>Household Income</b>		
< \$20,000	42.3	(39.3-45.4)
\$20,000 - \$34,999	34.4	(31.9-36.9)
\$35,000 - \$49,999	33.7	(30.8-36.7)
\$50,000 - \$74,999	29.3	(26.7-32.0)
\$75,000 +	23.1	(21.4-24.9)
<sup>a</sup> 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 = 11,960)		

**Table 33: Cardiovascular Disease**  
**2016 Michigan BRFSS**

	Ever Told Heart Attack <sup>a</sup>		Had Told Angina or Coronary Heart Disease <sup>b</sup>		Ever Told Stroke <sup>c</sup>		Ever Told Any Cardiovascular Disease <sup>d</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>5.0</b>	<b>(4.5-5.4)</b>	<b>5.1</b>	<b>(4.7-5.6)</b>	<b>3.5</b>	<b>(3.2-3.9)</b>	<b>9.9</b>	<b>(9.3-10.5)</b>
<b>Age</b>								
18 - 34	0.7	(0.4-1.4)	-- <sup>e</sup>	-- <sup>e</sup>	0.4	(0.2-0.8)	1.3	(0.8-2.0)
35 - 44	2.4	(1.5-3.6)	1.8	(1.1-2.9)	1.8	(1.1-2.9)	4.5	(3.4-6.0)
45 - 54	3.0	(2.3-3.9)	2.9	(2.2-3.9)	2.8	(2.1-3.8)	6.9	(5.7-8.3)
55 - 64	7.0	(5.8-8.4)	8.0	(6.8-9.5)	5.0	(4.0-6.3)	13.7	(12.2-15.5)
65 - 74	10.5	(9.0-12.2)	11.5	(10.0-13.3)	6.3	(5.2-7.6)	20.0	(18.0-22.1)
75 +	15.4	(13.3-17.9)	16.1	(13.9-18.5)	10.8	(9.0-13.0)	31.1	(28.3-34.1)
<b>Gender</b>								
Male	6.6	(5.9-7.4)	6.5	(5.8-7.2)	3.2	(2.7-3.8)	11.4	(10.5-12.3)
Female	3.5	(3.0-4.0)	3.9	(3.4-4.4)	3.8	(3.3-4.4)	8.4	(7.7-9.2)
<b>Race/Ethnicity</b>								
White non-Hispanic	5.4	(4.9-5.9)	5.6	(5.1-6.2)	3.3	(2.9-3.8)	10.3	(9.6-11.0)
Black non-Hispanic	4.1	(3.0-5.5)	4.0	(3.0-5.4)	5.2	(4.1-6.7)	9.5	(7.9-11.4)
Other non-Hispanic	3.3	(2.2-5.0)	3.4	(2.4-4.9)	3.1	(2.2-4.5)	7.7	(5.9-10.0)
Hispanic	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	-- <sup>e</sup>	4.4	(2.4-7.9)
<b>Education</b>								
< High school	10.7	(8.5-13.5)	8.8	(6.8-11.3)	7.2	(5.4-9.6)	17.2	(14.4-20.4)
High school graduate	5.6	(4.8-6.5)	5.9	(5.1-6.9)	4.1	(3.4-4.9)	11.8	(10.6-13.1)
Some college	4.1	(3.5-4.8)	4.5	(3.9-5.2)	3.1	(2.6-3.7)	8.5	(7.6-9.4)
College graduate	2.8	(2.3-3.4)	3.4	(2.9-4.0)	1.8	(1.4-2.1)	6.1	(5.4-6.9)
<b>Household Income</b>								
< \$20,000	7.9	(6.4-9.6)	7.6	(6.2-9.2)	6.8	(5.5-8.4)	14.8	(12.9-16.9)
\$20,000 - \$34,999	6.6	(5.5-7.8)	6.6	(5.6-7.9)	4.5	(3.6-5.7)	13.2	(11.6-15.0)
\$35,000 - \$49,999	5.5	(4.3-6.9)	5.9	(4.7-7.5)	3.3	(2.4-4.6)	10.4	(8.8-12.3)
\$50,000 - \$74,999	3.2	(2.4-4.3)	4.2	(3.2-5.4)	1.6	(1.1-2.4)	6.5	(5.4-8.0)
\$75,000 +	2.6	(2.1-3.3)	2.8	(2.3-3.4)	1.5	(1.1-2.1)	5.3	(4.5-6.2)

Among all adults, the proportion who had ever been told by a doctor that...

<sup>a</sup> they had a heart attack or myocardial infarction (N = 11,974);

<sup>b</sup> they had angina or coronary heart disease (N = 11,931);

<sup>c</sup> they had a stroke. (N = 11,989)

<sup>d</sup> they had a heart attack, coronary heart disease or a stroke. (N = 11,917)

<sup>e</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

<b>Table 34: Cancer 2016 Michigan BRFS</b>						
	<b>Ever Told Skin Cancer<sup>a</sup></b>		<b>Ever Told Any Other Types of Cancer<sup>b</sup></b>		<b>Ever Told Cancer<sup>c</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>5.8</b>	<b>(5.4-6.3)</b>	<b>8.3</b>	<b>(7.8-8.9)</b>	<b>12.8</b>	<b>(12.1-13.5)</b>
<b>Age</b>						
18 - 34	-- <sup>d</sup>	-- <sup>d</sup>	1.5	(1.1-2.2)	2.0	(1.4-2.7)
35 - 44	-- <sup>d</sup>	-- <sup>d</sup>	3.1	(2.3-4.3)	4.4	(3.3-5.9)
45 - 54	3.2	(2.5-4.2)	5.9	(4.8-7.3)	8.9	(7.5-10.5)
55 - 64	7.5	(6.4-8.8)	11.0	(9.6-12.5)	17.1	(15.5-18.9)
65 - 74	14.3	(12.7-16.1)	18.6	(16.7-20.6)	29.2	(27.0-31.5)
75 +	20.5	(18.2-23.0)	24.2	(21.7-27.0)	37.8	(34.9-40.8)
<b>Gender</b>						
Male	6.0	(5.3-6.7)	7.1	(6.4-7.9)	11.8	(10.9-12.7)
Female	5.7	(5.1-6.3)	9.5	(8.7-10.3)	13.7	(12.8-14.7)
<b>Race/Ethnicity</b>						
White non-Hispanic	7.3	(6.7-7.9)	9.1	(8.5-9.7)	14.7	(13.9-15.5)
Black non-Hispanic	-- <sup>d</sup>	-- <sup>d</sup>	7.0	(5.7-8.6)	7.1	(5.8-8.8)
Other non-Hispanic	2.5	(1.4-4.1)	4.8	(3.4-6.7)	6.8	(5.0-9.2)
Hispanic	-- <sup>d</sup>	-- <sup>d</sup>	-- <sup>d</sup>	-- <sup>d</sup>	3.1	(1.7-5.6)
<b>Education</b>						
Less than high school	4.5	(3.1-6.5)	9.1	(7.1-11.6)	12.3	(9.9-15.2)
High school graduate	5.3	(4.6-6.1)	8.6	(7.6-9.6)	12.6	(11.5-13.9)
Some college	5.8	(5.1-6.7)	8.6	(7.7-9.6)	13.2	(12.1-14.4)
College graduate	6.9	(6.2-7.7)	7.3	(6.5-8.1)	12.5	(11.6-13.6)
<b>Household Income</b>						
< \$20,000	4.3	(3.4-5.5)	8.9	(7.6-10.5)	11.8	(10.2-13.5)
\$20,000 - \$34,999	5.7	(4.7-6.9)	10.7	(9.2-12.4)	15.1	(13.4-17.0)
\$35,000 - \$49,999	7.0	(5.8-8.5)	8.9	(7.5-10.5)	14.1	(12.3-16.0)
\$50,000 - \$74,999	5.6	(4.6-6.9)	7.5	(6.2-9.0)	11.9	(10.3-13.7)
\$75,000 +	6.0	(5.2-7.0)	6.5	(5.6-7.5)	11.4	(10.3-12.7)

<sup>a</sup> Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 11,993)

<sup>b</sup> 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 = 11,994)

<sup>c</sup> 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 = 11,976)

<sup>d</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

<b>Table 35: Diabetes 2016 Michigan BRFSS</b>		
	<b>Ever Told Diabetes<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>11.2</b>	<b>(10.5-11.8)</b>
<b>Age</b>		
18 – 24	-- <sup>b</sup>	-- <sup>b</sup>
25 – 34	1.7	(1.0-2.7)
35 – 44	6.3	(4.8-8.2)
45 – 54	12.2	(10.6-14.1)
55 – 64	16.6	(14.9-18.5)
65 – 74	23.0	(20.9-25.2)
75 +	21.1	(18.7-23.7)
<b>Gender</b>		
Male	12.1	(11.2-13.2)
Female	10.3	(9.4-11.2)
<b>Race/Ethnicity</b>		
White non-Hispanic	11.0	(10.3-11.8)
Black non-Hispanic	12.8	(10.8-15.1)
Other non-Hispanic	11.0	(8.3-14.4)
Hispanic	9.7	(6.4-14.3)
<b>Education</b>		
Less than high school	15.8	(12.9-19.2)
High school graduate	12.5	(11.3-13.8)
Some college	11.3	(10.2-12.4)
College graduate	7.4	(6.6-8.3)
<b>Household Income</b>		
< \$20,000	14.5	(12.6-16.7)
\$20,000 - \$34,999	13.8	(12.1-15.6)
\$35,000 - \$49,999	11.8	(10.1-13.7)
\$50,000 - \$74,999	10.6	(8.9-12.5)
\$75,000 +	7.1	(6.1-8.2)
<sup>a</sup> 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 = 12,002) <sup>b</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

<b>Table 36: Kidney Disease 2016 Michigan BRFSS</b>		
	<b>Ever Told Kidney Disease<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>3.7</b>	<b>(3.3-4.1)</b>
<b>Age</b>		
18 – 24	1.5	(0.8-2.6)
25 – 34	1.4	(0.9-2.4)
35 – 44	1.9	(1.3-2.9)
45 – 54	3.8	(2.9-5.1)
55 – 64	4.9	(4.0-6.0)
65 – 74	6.2	(5.1-7.5)
75 +	8.3	(6.7-10.2)
<b>Gender</b>		
Male	3.2	(2.7-3.7)
Female	4.2	(3.7-4.9)
<b>Race/Ethnicity</b>		
White non-Hispanic	3.6	(3.2-4.1)
Black non-Hispanic	4.4	(3.3-5.9)
Other non-Hispanic	4.1	(2.7-6.2)
Hispanic	--b	--b
<b>Education</b>		
Less than high school	4.1	(2.8-6.0)
High school graduate	4.1	(3.5-4.9)
Some college	3.9	(3.3-4.7)
College graduate	2.6	(2.2-3.2)
<b>Household Income</b>		
< \$20,000	6.4	(5.1-7.9)
\$20,000 - \$34,999	4.6	(3.7-5.8)
\$35,000 - \$49,999	3.6	(2.7-4.8)
\$50,000 - \$74,999	2.6	(1.9-3.5)
\$75,000 +	2.5	(1.9-3.1)
<sup>a</sup> Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease. (N = 11,979)		
<sup>b</sup> Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

<b>Table 37: Depression 2016 Michigan BRFSS</b>		
	<b>Ever Told Depression<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>22.0</b>	<b>(21.1-23.0)</b>
<b>Age</b>		
18 – 24	22.5	(19.3-26.1)
25 – 34	24.2	(21.4-27.2)
35 – 44	24.3	(21.7-27.2)
45 – 54	22.9	(20.7-25.3)
55 – 64	23.7	(21.8-25.8)
65 – 74	18.0	(16.2-19.9)
75 +	15.3	(13.1-17.7)
<b>Gender</b>		
Male	16.8	(15.6-18.2)
Female	26.9	(25.5-28.3)
<b>Race/Ethnicity</b>		
White non-Hispanic	22.8	(21.7-23.9)
Black non-Hispanic	19.2	(16.6-22.0)
Other non-Hispanic	20.8	(17.0-25.2)
Hispanic	19.1	(14.1-25.3)
<b>Education</b>		
Less than high school	30.4	(26.3-34.8)
High school graduate	22.6	(20.9-24.4)
Some college	23.8	(22.1-25.5)
College graduate	15.2	(13.9-16.5)
<b>Household Income</b>		
< \$20,000	36.3	(33.3-39.4)
\$20,000 - \$34,999	24.9	(22.5-27.4)
\$35,000 - \$49,999	22.2	(19.6-25.1)
\$50,000 - \$74,999	20.2	(17.9-22.8)
\$75,000 +	14.1	(12.6-15.8)
<sup>a</sup> 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 = 11,959)		



<b>Table 34: Falls Among Adults Aged 45 Years and Older 2016 Michigan BRFSS</b>				
	<b>Fell During the Past 12 Months<sup>a</sup></b>		<b>Injured From a Fall During the Past 12 Months<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>29.7</b>	<b>(28.5-30.9)</b>	<b>12.3</b>	<b>(11.4-13.2)</b>
<b>Age</b>				
45 - 54	29.1	(26.7-31.7)	12.2	(10.5-14.1)
55 - 64	30.9	(28.7-33.1)	13.6	(12.0-15.3)
65 - 74	27.1	(24.9-29.3)	10.1	(8.7-11.7)
75 +	31.7	(28.9-34.6)	12.8	(10.9-15.0)
<b>Gender</b>				
Male	28.1	(26.3-29.9)	9.9	(8.7-11.2)
Female	31.1	(29.5-32.8)	14.4	(13.2-15.7)
<b>Race/Ethnicity</b>				
White non-Hispanic	29.5	(28.2-30.8)	12.0	(11.1-13.0)
Black non-Hispanic	28.8	(24.8-33.2)	11.7	(9.2-14.8)
Other non-Hispanic	26.5	(21.0-32.9)	12.3	(8.6-17.3)
Hispanic	40.5	(30.4-51.5)	16.1	(9.9-25.1)
<b>Respondent Education</b>				
Less than high school	36.9	(31.6-42.5)	18.7	(15.0-23.2)
High school graduate	28.7	(26.6-30.9)	12.3	(10.9-14.0)
Some college	30.5	(28.4-32.7)	12.7	(11.2-14.3)
College graduate	26.8	(25.0-28.6)	9.0	(7.9-10.2)
<b>Household Income</b>				
< \$20,000	39.9	(36.2-43.8)	22.2	(19.2-25.4)
\$20,000 - \$34,999	33.3	(30.3-36.4)	14.4	(12.3-16.9)
\$35,000 - \$49,999	30.6	(27.4-33.9)	11.4	(9.4-13.7)
\$50,000 - \$74,999	26.5	(23.4-29.7)	10.6	(8.6-13.1)
\$75,000 +	22.3	(20.3-24.5)	6.0	(4.9-7.3)
<sup>a</sup> 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 = 8,196) <sup>b</sup> 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 = 8,187)				