

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

## **State of Michigan**

### **Selected Tables**

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

**2012**

Chronic Disease Epidemiology Unit  
Surveillance and Program Evaluation Section  
Lifecourse Epidemiology and Genomics Division  
Bureau of Disease Control, Prevention, and Epidemiology  
Michigan Department of Community Health

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## Introduction

The Michigan Behavioral Risk Factor Survey (BRFS) is an annual, statewide telephone survey of Michigan adults aged 18 years and older that is conducted through a collaborative effort among the Division of Behavioral Surveillance (DBS) 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 Community Health. Michigan BRFS data contribute to the national [Behavioral Risk Factor Surveillance System](#) that is managed by the DBS at the CDC.

In 2012, the total sample size of completed interviews for the core survey was 10,499 (land line = 8,414; cell phone = 2,085). 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 10,499. 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 2012 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. In addition, census tracts with a high population density of African Americans were oversampled within the land line portion of the survey. The sample of cell phone numbers used within the 2012 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 2012 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.

Due to the BRFS methodology changes that took place in 2011, the estimates provided within the following tables should only be compared to Michigan BRFS estimates from 2011 and not to Michigan BRFS 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 MDCH, by phone, (517) 335-8144, or by email, [MIBRFSS@michigan.gov](mailto:MIBRFSS@michigan.gov).

<b>Table 1: Health Status 2012 Michigan BRFSS</b>		
	<b>General Health, Fair or Poor<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>17.1</b>	<b>(16.1-18.1)</b>
<b>Age</b>		
18 – 24	10.2	(7.7-13.4)
25 – 34	11.8	(9.2-15.0)
35 – 44	16.2	(13.5-19.4)
45 – 54	18.3	(16.0-20.8)
55 – 64	21.3	(19.1-23.6)
65 – 74	19.2	(17.0-21.5)
75 +	24.9	(22.2-27.8)
<b>Gender</b>		
Male	16.8	(15.3-18.4)
Female	17.3	(16.1-18.7)
<b>Race/Ethnicity</b>		
White non-Hispanic	15.1	(14.1-16.2)
Black non-Hispanic	26.0	(22.5-29.9)
Other non-Hispanic	18.2	(14.0-23.3)
Hispanic	24.2	(16.7-33.8)
<b>Education</b>		
Less than high school	37.7	(32.7-43.1)
High school graduate	20.6	(18.9-22.4)
Some college	13.4	(12.1-14.9)
College graduate	7.1	(6.1-8.2)
<b>Household Income</b>		
< \$20,000	36.7	(33.3-40.1)
\$20,000 - \$34,999	19.6	(17.4-22.0)
\$35,000 - \$49,999	15.1	(12.8-17.7)
\$50,000 - \$74,999	9.8	(7.9-12.2)
\$75,000 +	6.1	(4.9-7.5)
<sup>a</sup> Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 10,485)		

**Table 2: Health Status on at Least 14 Days in the Past Month  
2012 Michigan BRFS**

	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>13.5</b>	<b>(12.6-14.4)</b>	<b>13.0</b>	<b>(12.1-14.0)</b>	<b>9.0</b>	<b>(8.3-9.8)</b>
<b>Age</b>						
18 – 24	7.7	(5.3-11.0)	16.7	(13.2-20.8)	4.9	(3.1-7.6)
25 – 34	7.9	(5.8-10.6)	15.2	(12.4-18.4)	6.3	(4.5-8.6)
35 – 44	11.6	(9.4-14.2)	14.4	(12.0-17.2)	11.0	(8.7-13.8)
45 – 54	15.9	(13.9-18.2)	14.5	(12.5-16.6)	11.0	(9.3-13.0)
55 – 64	17.9	(15.9-20.2)	12.4	(10.7-14.2)	10.9	(9.3-12.7)
65 – 74	16.1	(14.1-18.3)	7.0	(5.7-8.5)	8.6	(7.2-10.3)
75 +	18.4	(15.8-21.2)	6.6	(5.2-8.4)	9.3	(7.5-11.4)
<b>Gender</b>						
Male	12.8	(11.5-14.2)	9.9	(8.7-11.2)	8.3	(7.2-9.5)
Female	14.1	(12.9-15.4)	16.0	(14.7-17.5)	9.8	(8.8-10.9)
<b>Race/Ethnicity</b>						
White non-Hispanic	12.8	(11.9-13.8)	12.0	(11.0-13.0)	8.4	(7.6-9.3)
Black non-Hispanic	15.6	(12.9-18.6)	14.9	(12.2-17.9)	11.3	(9.1-13.8)
Other non-Hispanic	14.9	(11.1-19.7)	19.3	(14.5-25.1)	11.3	(8.2-15.5)
Hispanic	16.0	(9.7-25.1)	22.6	(15.3-32.1)	11.1	(6.3-18.8)
<b>Education</b>						
Less than high school	24.7	(20.4-29.6)	24.5	(20.0-29.7)	19.4	(15.6-24.0)
High school graduate	14.9	(13.4-16.5)	13.9	(12.4-15.6)	9.8	(8.6-11.2)
Some college	12.6	(11.3-14.1)	12.5	(11.1-14.1)	8.0	(6.9-9.2)
College graduate	6.8	(5.9-7.8)	7.0	(6.0-8.1)	4.0	(3.3-4.8)
<b>Household Income</b>						
< \$20,000	26.5	(23.6-29.7)	27.4	(24.4-30.7)	21.6	(18.9-24.6)
\$20,000 - \$34,999	14.7	(12.9-16.8)	13.0	(11.2-15.0)	9.5	(8.0-11.2)
\$35,000 - \$49,999	10.8	(8.9-13.1)	8.7	(6.9-10.9)	7.3	(5.8-9.3)
\$50,000 - \$74,999	8.6	(6.9-10.6)	8.4	(6.5-10.8)	5.3	(3.8-7.4)
\$75,000 +	5.9	(4.8-7.2)	7.4	(6.0-9.2)	2.7	(1.9-3.8)

<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 = 10,344)

<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 = 10,378)

<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 = 10,419)

**Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations  
2012 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>4.2</b>	<b>(4.0-4.4)</b>	<b>4.1</b>	<b>(3.9-4.4)</b>	<b>2.8</b>	<b>(2.6-2.9)</b>
<b>Age</b>						
18 - 24	2.9	(2.2-3.5)	5.6	(4.7-6.6)	1.8	(1.3-2.4)
25 - 34	2.6	(2.1-3.1)	4.8	(4.1-5.5)	2.0	(1.5-2.5)
35 - 44	3.8	(3.2-4.4)	4.6	(4.0-5.3)	3.3	(2.7-3.9)
45 - 54	4.8	(4.2-5.3)	4.4	(3.9-4.9)	3.3	(2.8-3.7)
55 - 64	5.4	(4.9-6.0)	3.9	(3.4-4.3)	3.3	(2.8-3.7)
65 - 74	4.9	(4.4-5.4)	2.2	(1.9-2.6)	2.5	(2.1-2.9)
75 +	5.6	(4.8-6.3)	2.2	(1.8-2.6)	2.6	(2.1-3.1)
<b>Gender</b>						
Male	3.9	(3.6-4.3)	3.3	(3.0-3.6)	2.5	(2.2-2.8)
Female	4.5	(4.2-4.8)	4.9	(4.6-5.3)	3.0	(2.7-3.3)
<b>Race/Ethnicity</b>						
White non-Hispanic	4.0	(3.8-4.3)	3.9	(3.6-4.1)	2.6	(2.4-2.8)
Black non-Hispanic	5.0	(4.3-5.8)	4.8	(4.1-5.5)	3.5	(2.9-4.1)
Other non-Hispanic	4.7	(3.6-5.9)	5.5	(4.2-6.7)	3.6	(2.6-4.5)
Hispanic	4.9	(3.0-6.9)	6.5	(4.4-8.6)	3.0	(1.6-4.5)
<b>Education</b>						
Less than high school	7.1	(6.0-8.3)	7.3	(6.1-8.5)	5.4	(4.4-6.4)
High school graduate	4.7	(4.3-5.1)	4.4	(4.0-4.8)	2.9	(2.6-3.3)
Some college	4.0	(3.6-4.4)	3.9	(3.6-4.2)	2.5	(2.2-2.8)
College graduate	2.4	(2.2-2.7)	2.6	(2.4-2.9)	1.4	(1.3-1.6)
<b>Household Income</b>						
< \$20,000	7.9	(7.1-8.7)	7.9	(7.2-8.7)	5.9	(5.3-6.6)
\$20,000 - \$34,999	4.5	(4.0-5.0)	4.1	(3.6-4.6)	2.9	(2.5-3.3)
\$35,000 - \$49,999	3.4	(2.8-3.9)	3.1	(2.6-3.6)	2.2	(1.8-2.7)
\$50,000 - \$74,999	3.0	(2.5-3.4)	2.8	(2.4-3.2)	1.7	(1.4-2.1)
\$75,000 +	2.2	(1.9-2.5)	2.7	(2.3-3.1)	1.1	(0.9-1.4)

<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 = 10,344)

<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 = 10,378)

<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 = 10,419)

<b>Table 4: Disability 2012 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>24.6</b>	<b>(23.5-25.7)</b>	<b>22.3</b>	<b>(21.3-23.4)</b>	<b>8.7</b>	<b>(8.1-9.4)</b>
<b>Age</b>						
18 - 24	10.7	(8.1-13.9)	9.0	(6.7-11.9)	1.9	(0.9-4.2)
25 - 34	15.1	(12.3-18.4)	14.0	(11.3-17.3)	2.3	(1.2-4.2)
35 - 44	19.4	(16.6-22.5)	17.8	(15.1-20.9)	5.9	(4.4-7.9)
45 - 54	25.0	(22.5-27.7)	23.7	(21.3-26.4)	8.5	(7.0-10.4)
55 - 64	34.3	(31.9-36.8)	32.3	(29.9-34.8)	11.9	(10.4-13.7)
65 - 74	34.4	(31.9-37.0)	30.1	(27.7-32.6)	14.6	(12.8-16.6)
75 +	40.0	(37.0-43.1)	33.2	(30.3-36.3)	23.0	(20.5-25.7)
<b>Gender</b>						
Male	23.2	(21.6-24.9)	20.7	(19.2-22.4)	7.9	(6.9-9.0)
Female	25.9	(24.5-27.4)	23.8	(22.5-25.3)	9.6	(8.7-10.5)
<b>Race/Ethnicity</b>						
White non-Hispanic	24.1	(23.0-25.3)	22.0	(20.9-23.1)	8.2	(7.5-8.9)
Black non-Hispanic	28.1	(24.6-31.9)	25.3	(21.9-29.1)	12.5	(10.3-15.0)
Other non-Hispanic	26.9	(21.6-32.9)	23.6	(18.7-29.4)	10.3	(7.2-14.6)
Hispanic	19.8	(13.5-27.9)	18.8	(12.7-27.0)	4.2	(2.3-7.6)
<b>Education</b>						
Less than high school	37.1	(32.1-42.3)	32.8	(28.0-37.9)	15.0	(11.9-18.7)
High school graduate	26.8	(24.9-28.8)	24.8	(22.9-26.7)	9.5	(8.3-10.7)
Some college	23.5	(21.7-25.3)	21.0	(19.4-22.8)	8.6	(7.6-9.8)
College graduate	17.1	(15.7-18.5)	15.7	(14.4-17.2)	4.7	(4.1-5.4)
<b>Household Income</b>						
< \$20,000	43.1	(39.7-46.6)	40.1	(36.8-43.6)	18.4	(16.1-20.9)
\$20,000 - \$34,999	27.9	(25.4-30.4)	24.9	(22.6-27.4)	11.1	(9.7-12.8)
\$35,000 - \$49,999	22.1	(19.5-24.9)	20.6	(18.1-23.3)	6.1	(4.8-7.8)
\$50,000 - \$74,999	18.2	(15.8-20.7)	17.1	(14.8-19.6)	4.2	(3.3-5.4)
\$75,000 +	12.7	(11.2-14.5)	11.2	(9.8-12.8)	3.2	(2.4-4.3)

<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 = 10,382)

<sup>b</sup> Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems. (N = 10,390)

<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 = 10,395)

**Table 5: Weight Status  
2012 Michigan BRFSS**

	Obese <sup>a</sup>		Overweight <sup>b</sup>		Normal Weight <sup>c</sup>		Underweight <sup>d</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>31.1</b>	<b>(29.8-32.3)</b>	<b>34.6</b>	<b>(33.3-35.8)</b>	<b>32.8</b>	<b>(31.5-34.1)</b>	<b>1.6</b>	<b>(1.3-2.0)</b>
<b>Age</b>								
18 - 24	18.9	(15.4-22.9)	21.9	(18.1-26.3)	55.5	(50.6-60.3)	3.7	(2.3-6.0)
25 - 34	31.4	(27.6-35.4)	33.0	(29.1-37.2)	33.3	(29.6-37.3)	2.3	(1.2-4.1)
35 - 44	35.3	(31.9-38.9)	32.8	(29.6-36.2)	30.6	(27.4-34.0)	1.3	(0.7-2.4)
45 - 54	33.2	(30.5-36.1)	35.4	(32.7-38.3)	30.1	(27.5-32.8)	1.2	(0.8-2.0)
55 - 64	35.3	(32.9-37.7)	38.0	(35.6-40.6)	25.9	(23.7-28.3)	0.8	(0.5-1.2)
65 - 74	35.3	(32.7-38.0)	42.1	(39.3-45.0)	21.5	(19.4-23.7)	1.0	(0.6-1.8)
75 +	22.5	(19.9-25.2)	41.3	(38.2-44.6)	35.2	(32.2-38.2)	1.0	(0.6-1.7)
<b>Gender</b>								
Male	31.5	(29.6-33.4)	39.5	(37.6-41.5)	28.1	(26.2-30.1)	0.9	(0.6-1.5)
Female	30.6	(29.1-32.3)	29.6	(28.0-31.2)	37.5	(35.8-39.2)	2.3	(1.8-3.0)
<b>Race/Ethnicity</b>								
White non-Hispanic	29.9	(28.6-31.2)	35.4	(34.0-36.8)	32.9	(31.5-34.3)	1.9	(1.5-2.4)
Black non-Hispanic	37.8	(33.9-41.9)	31.5	(27.8-35.4)	30.3	(26.4-34.4)	0.4	(0.2-1.0)
Other non-Hispanic	27.6	(22.4-33.5)	30.1	(25.0-35.8)	41.4	(35.2-47.9)	0.9	(0.3-2.4)
Hispanic	37.0	(28.6-46.2)	31.7	(23.9-40.7)	29.9	(22.2-38.9)	1.5	(0.4-5.4)
<b>Education</b>								
< High school	30.6	(25.8-35.9)	31.9	(27.0-37.2)	36.0	(30.8-41.6)	1.4	(0.7-2.8)
High school graduate	33.9	(31.7-36.2)	33.2	(31.0-35.4)	31.0	(28.8-33.3)	1.9	(1.3-2.8)
Some college	32.4	(30.3-34.6)	33.6	(31.5-35.8)	32.0	(29.8-34.2)	2.0	(1.3-3.0)
College graduate	25.5	(23.7-27.3)	38.9	(36.9-41.0)	34.9	(32.9-36.9)	0.7	(0.4-1.1)
<b>Household Income</b>								
< \$20,000	36.0	(32.7-39.4)	27.0	(24.0-30.3)	35.4	(32.0-39.0)	1.6	(1.0-2.6)
\$20,000 - \$34,999	32.9	(30.1-35.7)	37.0	(34.1-39.9)	28.6	(25.9-31.5)	1.6	(1.0-2.6)
\$35,000 - \$49,999	33.4	(30.2-36.8)	36.3	(32.9-39.9)	29.4	(26.3-32.7)	0.8	(0.4-1.7)
\$50,000 - \$74,999	31.7	(28.5-35.1)	36.5	(33.3-39.8)	30.6	(27.6-33.9)	1.1	(0.6-2.1)
\$75,000 +	26.6	(24.3-29.0)	37.8	(35.3-40.3)	34.4	(31.9-37.0)	1.3	(0.7-2.2)

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 = 10,052)

<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.

**Table 6: Health Care Access  
2012 Michigan BRFSS**

	No Health Care Coverage <sup>a</sup> (Among 18 - 64 year olds)		No Personal Health Care Provider <sup>b</sup>		No Health Care Access During Past 12 Months Due to Cost <sup>c</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>16.6</b>	<b>(15.4-17.8)</b>	<b>15.8</b>	<b>(14.8-16.9)</b>	<b>15.1</b>	<b>(14.1-16.1)</b>
<b>Age</b>						
18 - 24	18.5	(15.2-22.4)	25.8	(21.8-30.2)	17.7	(14.4-21.5)
25 - 34	25.9	(22.3-29.7)	31.9	(28.2-35.8)	21.1	(17.9-24.8)
35 - 44	13.3	(11.0-16.1)	17.8	(15.1-20.9)	17.4	(14.7-20.4)
45 - 54	15.2	(13.1-17.6)	13.2	(11.2-15.4)	18.1	(15.8-20.6)
55 - 64	11.2	(9.6-13.0)	8.1	(6.8-9.7)	13.0	(11.4-14.9)
65 - 74	---	---	4.7	(3.5-6.2)	6.4	(5.2-7.9)
75 +	---	---	3.8	(2.7-5.4)	4.3	(3.2-5.8)
<b>Gender</b>						
Male	18.9	(17.0-20.9)	21.3	(19.5-23.2)	14.5	(13.0-16.1)
Female	14.2	(12.8-15.8)	10.7	(9.6-11.9)	15.6	(14.4-17.0)
<b>Race/Ethnicity</b>						
White non-Hispanic	15.1	(13.8-16.4)	14.5	(13.4-15.7)	13.5	(12.5-14.6)
Black non-Hispanic	24.3	(20.5-28.6)	22.1	(18.7-26.0)	19.3	(16.3-22.8)
Other non-Hispanic	13.8	(9.9-18.8)	17.5	(13.2-22.7)	20.5	(15.8-26.1)
Hispanic	18.4	(12.1-27.2)	17.8	(11.8-26.0)	26.5	(19.0-35.6)
<b>Education</b>						
Less than high school	26.6	(21.1-32.8)	20.4	(16.1-25.4)	20.0	(15.9-24.8)
High school graduate	20.4	(18.1-22.8)	15.4	(13.7-17.4)	16.9	(15.1-18.8)
Some college	17.3	(15.4-19.5)	17.4	(15.6-19.4)	16.8	(15.1-18.7)
College graduate	5.9	(4.9-7.0)	11.3	(9.9-12.9)	7.4	(6.4-8.6)
<b>Household Income</b>						
< \$20,000	32.8	(29.1-36.7)	23.7	(20.8-26.9)	32.0	(28.8-35.3)
\$20,000 - \$34,999	27.8	(24.4-31.5)	20.3	(17.7-23.2)	20.8	(18.3-23.6)
\$35,000 - \$49,999	15.6	(12.3-19.6)	14.0	(11.5-17.0)	13.7	(11.2-16.6)
\$50,000 - \$74,999	5.4	(3.9-7.5)	10.8	(8.6-13.4)	7.5	(5.8-9.7)
\$75,000 +	3.6	(2.6-5.0)	9.5	(8.0-11.3)	3.3	(2.4-4.4)

<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 = 6,820)

<sup>b</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 = 10,453)

<sup>c</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 = 10,477)

<b>Table 7: No Leisure-Time Physical Activity 2012 Michigan BRFSS</b>		
	<b>No Leisure-Time Physical Activity<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>23.3</b>	<b>(22.2-24.5)</b>
<b>Age</b>		
18 – 24	15.5	(12.3-19.4)
25 – 34	19.6	(16.4-23.2)
35 – 44	21.9	(18.8-25.3)
45 – 54	25.0	(22.4-27.7)
55 – 64	25.0	(22.8-27.4)
65 – 74	26.9	(24.4-29.6)
75 +	33.4	(30.5-36.5)
<b>Gender</b>		
Male	21.5	(19.7-23.3)
Female	25.1	(23.6-26.6)
<b>Race/Ethnicity</b>		
White non-Hispanic	21.2	(20.1-22.5)
Black non-Hispanic	33.8	(30.0-37.9)
Other non-Hispanic	21.4	(17.1-26.4)
Hispanic	29.5	(21.9-38.4)
<b>Education</b>		
Less than high school	43.2	(37.9-48.6)
High school graduate	27.0	(25.1-29.0)
Some college	20.2	(18.5-22.0)
College graduate	12.5	(11.2-13.9)
<b>Household Income</b>		
< \$20,000	37.8	(34.4-41.3)
\$20,000 - \$34,999	27.9	(25.3-30.7)
\$35,000 - \$49,999	21.6	(18.9-24.5)
\$50,000 - \$74,999	17.4	(14.8-20.3)
\$75,000 +	10.9	(9.4-12.7)
<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 = 10,490)		

**Table 8: Cigarette Smoking  
2012 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>23.3</b>	<b>(22.1-24.6)</b>	<b>25.8</b>	<b>(24.7-26.9)</b>	<b>50.9</b>	<b>(49.6-52.2)</b>
<b>Age</b>						
18 – 24	24.9	(20.7-29.5)	6.2	(4.3-8.9)	68.9	(64.1-73.3)
25 – 34	33.4	(29.5-37.5)	16.7	(13.9-20.0)	50.0	(45.8-54.1)
35 – 44	26.5	(23.3-29.9)	18.9	(16.3-21.7)	54.6	(51.1-58.2)
45 – 54	28.8	(26.1-31.7)	23.8	(21.5-26.4)	47.4	(44.5-50.3)
55 – 64	21.8	(19.5-24.2)	35.5	(33.1-37.9)	42.7	(40.3-45.2)
65 – 74	10.9	(9.3-12.7)	44.6	(41.9-47.4)	44.5	(41.8-47.2)
75 +	3.5	(2.6-4.8)	46.3	(43.1-49.5)	50.2	(47.0-53.4)
<b>Gender</b>						
Male	23.8	(22.0-25.8)	28.8	(27.1-30.5)	47.4	(45.4-49.5)
Female	22.8	(21.3-24.5)	23.0	(21.7-24.3)	54.2	(52.4-55.9)
<b>Race/Ethnicity</b>						
White non-Hispanic	22.4	(21.1-23.8)	27.7	(26.5-28.9)	49.9	(48.4-51.3)
Black non-Hispanic	26.6	(22.9-30.8)	15.7	(13.3-18.4)	57.7	(53.6-61.7)
Other non-Hispanic	28.4	(22.8-34.7)	23.0	(18.2-28.6)	48.6	(42.6-54.7)
Hispanic	27.7	(19.8-37.2)	23.7	(17.5-31.4)	48.6	(39.7-57.6)
<b>Education</b>						
Less than high school	46.3	(40.8-51.8)	25.5	(21.5-29.8)	28.3	(23.6-33.4)
High school graduate	26.4	(24.4-28.5)	28.3	(26.3-30.3)	45.3	(43.0-47.6)
Some college	22.5	(20.6-24.5)	26.1	(24.3-28.0)	51.5	(49.2-53.7)
College graduate	8.8	(7.7-10.2)	22.4	(20.8-24.1)	68.7	(66.8-70.6)
<b>Household Income</b>						
< \$20,000	39.9	(36.4-43.5)	19.5	(17.1-22.0)	40.6	(37.3-44.1)
\$20,000 - \$34,999	26.5	(23.7-29.4)	28.9	(26.4-31.5)	44.6	(41.7-47.6)
\$35,000 - \$49,999	20.6	(17.6-23.8)	30.3	(27.3-33.5)	49.1	(45.6-52.6)
\$50,000 - \$74,999	17.1	(14.6-20.1)	30.4	(27.5-33.5)	52.4	(49.0-55.8)
\$75,000 +	12.2	(10.4-14.3)	25.1	(23.1-27.3)	62.7	(60.1-65.1)

<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 = 10,361)

<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 = 10,361)

**Table 9: Current Smokers Who Attempted to Quit  
2012 Michigan BRFSS**

	Tried to Quit Smoking One Day or Longer in Past Year <sup>a</sup>	
	%	95% Confidence Interval
<b>Total</b>	<b>64.3</b>	<b>(61.2-67.3)</b>
<b>Age</b>		
18 – 24	70.7	(59.9-79.6)
25 – 34	67.1	(59.5-73.9)
35 – 44	63.0	(55.5-69.9)
45 – 54	61.3	(55.4-66.9)
55 – 64	62.7	(56.4-68.5)
65 – 74	59.4	(51.2-67.0)
75 +	58.8	(43.2-72.8)
<b>Gender</b>		
Male	63.5	(58.8-67.9)
Female	65.1	(61.0-69.0)
<b>Race/Ethnicity</b>		
White non-Hispanic	60.8	(57.3-64.3)
Black non-Hispanic	80.4	(72.9-86.3)
Other non-Hispanic	59.6	(46.6-71.3)
Hispanic	71.7	(54.5-84.3)
<b>Education</b>		
Less than high school	60.5	(51.7-68.6)
High school graduate	63.6	(59.1-67.9)
Some college	69.0	(64.2-73.4)
College graduate	59.8	(52.2-66.9)
<b>Household Income</b>		
< \$20,000	67.0	(61.1-72.4)
\$20,000 - \$34,999	62.7	(56.3-68.8)
\$35,000 - \$49,999	65.1	(56.2-73.0)
\$50,000 - \$74,999	68.9	(60.2-76.6)
\$75,000 +	54.2	(45.6-62.7)

<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 = 1,830)

<b>Table 10: Smokeless Tobacco Use 2012 Michigan BRFSS</b>		
	<b>Current Smokeless Tobacco Use<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>3.9</b>	<b>(3.3-4.5)</b>
<b>Age</b>		
18 – 24	8.7	(6.3-12.1)
25 – 34	4.5	(3.1-6.7)
35 – 44	4.3	(3.1-6.0)
45 – 54	2.7	(1.9-3.9)
55 – 64	2.6	(1.9-3.6)
65 – 74	2.4	(1.4-3.9)
75 +	1.5	(1.0-2.5)
<b>Gender</b>		
Male	6.8	(5.8-8.1)
Female	1.1	(0.8-1.5)
<b>Race/Ethnicity</b>		
White non-Hispanic	4.1	(3.4-4.8)
Black non-Hispanic	3.0	(1.9-4.6)
Other non-Hispanic	5.6	(3.4-9.0)
Hispanic	1.9	(0.5-6.4)
<b>Education</b>		
Less than high school	5.7	(3.5-9.2)
High school graduate	4.4	(3.4-5.5)
Some college	4.2	(3.3-5.3)
College graduate	1.9	(1.4-2.7)
<b>Household Income</b>		
< \$20,000	4.3	(3.1-5.9)
\$20,000 - \$34,999	4.1	(2.9-5.8)
\$35,000 - \$49,999	2.8	(1.7-4.4)
\$50,000 - \$74,999	4.4	(3.0-6.4)
\$75,000 +	3.5	(2.5-4.9)
<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 = 10,380)		

<b>Table 11: Alcohol Consumption 2012 Michigan BRFSS</b>				
	<b>Heavy Drinking<sup>a</sup></b>		<b>Binge Drinking<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>6.1</b>	<b>(5.4-6.8)</b>	<b>19.2</b>	<b>(18.1-20.3)</b>
<b>Age</b>				
18 – 24	6.3	(4.3-9.2)	27.9	(23.8-32.3)
25 – 34	6.4	(4.6-8.9)	27.6	(24.0-31.6)
35 – 44	7.5	(5.6-10.0)	23.9	(20.9-27.1)
45 – 54	7.0	(5.7-8.5)	21.2	(18.8-23.8)
55 – 64	5.2	(4.3-6.4)	13.5	(11.8-15.3)
65 – 74	5.1	(4.0-6.4)	8.1	(6.7-9.8)
75 +	3.1	(2.2-4.4)	3.0	(2.0-4.5)
<b>Gender</b>				
Male	6.5	(5.5-7.6)	24.7	(22.9-26.6)
Female	5.7	(4.9-6.6)	14.0	(12.8-15.4)
<b>Race/Ethnicity</b>				
White non-Hispanic	6.3	(5.6-7.1)	19.3	(18.2-20.6)
Black non-Hispanic	3.7	(2.5-5.4)	15.3	(12.2-19.1)
Other non-Hispanic	5.3	(3.4-8.0)	20.8	(15.8-27.0)
Hispanic	10.3	(5.4-18.5)	27.5	(19.9-36.7)
<b>Education</b>				
Less than high school	7.3	(4.7-11.2)	18.6	(14.3-23.8)
High school graduate	6.2	(5.1-7.4)	18.9	(17.0-21.0)
Some college	6.2	(5.1-7.4)	20.4	(18.5-22.5)
College graduate	5.2	(4.4-6.2)	18.0	(16.4-19.8)
<b>Household Income</b>				
< \$20,000	5.4	(3.8-7.6)	16.8	(14.1-19.9)
\$20,000 - \$34,999	6.5	(4.9-8.4)	19.6	(17.1-22.5)
\$35,000 - \$49,999	6.1	(4.7-7.8)	19.4	(16.5-22.5)
\$50,000 - \$74,999	6.9	(5.4-8.9)	21.5	(18.7-24.6)
\$75,000 +	6.9	(5.6-8.3)	22.4	(20.2-24.8)
<sup>a</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 = 10,215)				
<sup>b</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 = 10,223)				

<b>Table 12: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers 2012 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>4.3</b>	<b>(3.9-4.7)</b>
<b>Age</b>		
18 – 24	3.7	(2.9-4.5)
25 – 34	4.0	(3.1-5.8)
35 – 44	4.5	(3.2-5.8)
45 – 54	4.3	(3.6-5.1)
55 – 64	4.7	(3.7-5.8)
65 – 74	5.0	(3.5-6.5)
75+	6.4	(3.5-9.4)
<b>Gender</b>		
Male	5.0	(4.4-5.6)
Female	3.1	(2.6-3.6)
<b>Race/Ethnicity</b>		
White non-Hispanic	4.2	(3.8-5.7)
Black non-Hispanic	4.2	(2.8-5.5)
Other non-Hispanic	4.3	(3.1-5.5)
Hispanic	-- <sup>b</sup>	---
<b>Education</b>		
Less than high school	6.0	(3.8-8.2)
High school graduate	4.7	(3.9-5.4)
Some college	4.3	(3.6-5.0)
College graduate	2.8	(2.5-3.1)
<b>Household Income</b>		
< \$20,000	4.3	(3.1-5.4)
\$20,000 - \$34,999	4.9	(3.9-6.0)
\$35,000 - \$49,999	4.0	(3.3-4.7)
\$50,000 - \$74,999	4.0	(2.9-5.1)
\$75,000 +	3.7	(2.9-4.5)
<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 = 1,422) <sup>b</sup> The denominator for this subgroup was less than 50.		

<b>Table 13: Drove Motor Vehicle After Drinking 2012 Michigan BRFSS</b>		
	<b>Drove Motor Vehicle After Drinking<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>1.9</b>	<b>(1.6-2.3)</b>
<b>Age</b>		
18 – 24	1.4	(0.7-2.7)
25 – 34	2.0	(1.2-3.2)
35 – 44	2.7	(1.6-4.4)
45 – 54	2.8	(1.9-4.0)
55 – 64	1.9	(1.3-2.7)
65 – 74	0.9	(0.5-1.5)
75 +	0.3	(0.1-0.7)
<b>Gender</b>		
Male	3.0	(2.4-3.8)
Female	0.8	(0.6-1.2)
<b>Race/Ethnicity</b>		
White non-Hispanic	2.1	(1.7-2.6)
Black non-Hispanic	0.7	(0.3-1.6)
Other non-Hispanic	2.7	(1.2-5.6)
Hispanic	1.1	(0.3-3.7)
<b>Education</b>		
Less than high school	0.7	(0.2-2.0)
High school graduate	2.3	(1.7-3.2)
Some college	1.9	(1.3-2.7)
College graduate	1.9	(1.4-2.6)
<b>Household Income</b>		
< \$20,000	0.8	(0.4-1.4)
\$20,000 - \$34,999	2.5	(1.6-3.8)
\$35,000 - \$49,999	2.0	(1.2-3.2)
\$50,000 - \$74,999	2.5	(1.6-3.9)
\$75,000 +	2.4	(1.7-3.4)

<sup>a</sup> Among all adults, the proportion who reported that they had driven when they'd had too much to drink at least once in the previous month. (N = 10,306)

<b>Table 14: Seatbelt Use 2012 Michigan BRFSS</b>		
	<b>Always Uses a Seatbelt<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>88.4</b>	<b>(87.4-89.3)</b>
<b>Age</b>		
18 – 24	78.3	(74.1-82.0)
25 – 34	86.5	(83.3-89.2)
35 – 44	88.7	(86.0-91.0)
45 – 54	91.2	(89.5-92.6)
55 – 64	90.6	(88.9-92.0)
65 – 74	91.7	(89.7-93.4)
75 +	91.4	(89.5-93.0)
<b>Gender</b>		
Male	83.8	(82.2-85.4)
Female	92.6	(91.6-93.5)
<b>Race/Ethnicity</b>		
White non-Hispanic	88.9	(87.9-89.9)
Black non-Hispanic	85.6	(82.1-88.6)
Other non-Hispanic	85.4	(80.1-89.5)
Hispanic	89.2	(81.7-93.9)
<b>Education</b>		
Less than high school	87.4	(83.1-90.7)
High school graduate	87.2	(85.4-88.7)
Some college	87.4	(85.6-88.9)
College graduate	91.9	(90.6-93.1)
<b>Household Income</b>		
< \$20,000	87.2	(84.4-89.5)
\$20,000 - \$34,999	87.0	(84.8-89.0)
\$35,000 - \$49,999	89.1	(86.5-91.3)
\$50,000 - \$74,999	89.0	(86.4-91.2)
\$75,000 +	90.3	(88.5-91.8)
<sup>a</sup> Among all adults, the proportion who reported always using a seatbelt when driving or riding in a car. (N = 10,302)		

<b>Table 15: No Routine Checkup in Past Year 2012 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>33.5</b>	<b>(32.2-34.8)</b>
<b>Age</b>		
18 - 24	41.1	(36.5-45.9)
25 - 34	50.9	(46.8-55.0)
35 - 44	40.1	(36.7-43.6)
45 - 54	33.4	(30.8-36.2)
55 - 64	25.1	(22.9-27.3)
65 - 74	19.2	(16.9-21.7)
75 +	13.5	(11.5-15.9)
<b>Gender</b>		
Male	39.0	(37.0-41.1)
Female	28.3	(26.7-29.9)
<b>Race/Ethnicity</b>		
White non-Hispanic	34.4	(33.0-35.9)
Black non-Hispanic	27.0	(23.4-30.8)
Other non-Hispanic	40.0	(34.0-46.4)
Hispanic	32.8	(25.2-41.4)
<b>Education</b>		
Less than high school	36.3	(31.1-41.8)
High school graduate	33.1	(30.9-35.4)
Some college	33.9	(31.7-36.1)
College graduate	31.9	(29.9-33.9)
<b>Household Income</b>		
< \$20,000	37.4	(34.1-40.9)
\$20,000 - \$34,999	37.1	(34.1-40.1)
\$35,000 - \$49,999	31.6	(28.3-35.1)
\$50,000 - \$74,999	29.7	(26.7-33.0)
\$75,000 +	31.1	(28.7-33.6)
<sup>a</sup> Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 10,400)		

**Table 16: Clinical Breast Exam Indicators Among Women Aged 20 Years and Older  
2012 Michigan BRFSS**

	Ever Had Clinical Breast Exam <sup>a</sup>		Had Appropriately Timed Clinical Breast Exam <sup>b</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>91.4</b>	<b>(90.2-92.5)</b>	<b>66.7</b>	<b>(65.1-68.3)</b>
<b>Age</b>				
20 - 29	76.0	(70.5-80.8)	69.4	(63.6-74.6)
30 - 39	93.1	(90.0-95.3)	87.7	(84.2-90.6)
40 - 49	96.7	(95.0-97.9)	62.6	(58.5-66.6)
50 - 59	96.7	(95.1-97.8)	64.5	(61.2-67.7)
60 - 69	93.8	(91.2-95.6)	62.7	(59.3-65.9)
70 +	89.8	(87.6-91.6)	54.7	(51.6-57.9)
<b>Race/Ethnicity</b>				
White non-Hispanic	92.6	(91.4-93.7)	66.5	(64.7-68.2)
Black non-Hispanic	87.6	(83.8-90.7)	66.0	(61.1-70.6)
Other non-Hispanic	86.3	(78.5-91.6)	62.5	(53.7-70.5)
Hispanic	83.7	(70.0-91.9)	76.0	(63.2-85.3)
<b>Education</b>				
Less than high school	77.3	(69.8-83.4)	50.6	(42.9-58.2)
High school graduate	90.5	(88.6-92.1)	61.3	(58.4-64.1)
Some college	93.1	(91.2-94.6)	69.9	(67.2-72.4)
College graduate	95.8	(94.4-96.9)	75.2	(72.9-77.4)
<b>Household Income</b>				
< \$20,000	83.2	(79.3-86.4)	55.3	(50.9-59.7)
\$20,000 - \$34,999	91.7	(89.3-93.6)	61.8	(58.2-65.2)
\$35,000 - \$49,999	93.4	(90.3-95.5)	70.9	(66.7-74.7)
\$50,000 - \$74,999	97.7	(95.7-98.8)	74.7	(70.8-78.2)
\$75,000 +	95.4	(92.8-97.1)	76.4	(73.2-79.4)

<sup>a</sup> Among women aged 20 years and older, the proportion who reported ever having a clinical breast exam. (N = 6,022)

<sup>b</sup> Among women aged 20 years and older, the proportion whose last clinical breast exam was within the previous three years for women age 20-39 years and within the previous year for women aged 40 years and older. (N = 5,954)

**Table 17: Mammography Indicators Among Women Aged 40 Years and Older  
2012 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>		Had Clinical Breast Exam and Mammogram in Past Year <sup>d</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>94.5</b>	<b>(93.6-95.3)</b>	<b>59.2</b>	<b>(57.5-61.0)</b>	<b>76.6</b>	<b>(75.0-78.1)</b>	<b>50.4</b>	<b>(48.6-52.2)</b>
<b>Age</b>								
40 - 49	87.6	(84.7-89.9)	51.6	(47.4-55.7)	68.1	(64.2-71.8)	47.0	(42.8-51.2)
50 - 59	95.8	(94.2-97.0)	61.1	(57.7-64.3)	78.8	(75.8-81.5)	54.2	(50.8-57.5)
60 - 69	98.0	(96.8-98.7)	65.7	(62.4-68.8)	83.1	(80.5-85.5)	54.2	(50.8-57.4)
70 +	97.1	(95.8-98.0)	59.0	(55.9-62.1)	76.8	(74.1-79.3)	45.5	(42.4-48.7)
<b>Race/Ethnicity</b>								
White non-Hispanic	94.7	(93.7-95.5)	58.8	(56.9-60.7)	76.2	(74.5-77.9)	50.3	(48.3-52.2)
Black non-Hispanic	93.1	(89.6-95.5)	59.5	(54.2-64.7)	77.9	(73.0-82.1)	48.4	(43.0-53.8)
Other non-Hispanic	94.2	(89.6-96.8)	56.9	(47.0-66.4)	75.5	(67.1-82.3)	49.2	(39.2-59.2)
Hispanic	95.1	(85.6-98.4)	75.3	(62.4-84.9)	83.9	(72.5-91.2)	64.4	(50.1-76.5)
<b>Education</b>								
< High school	93.2	(89.1-95.9)	46.2	(38.2-54.3)	65.1	(57.2-72.3)	33.6	(26.5-41.5)
High school graduate	95.2	(93.6-96.4)	57.2	(54.2-60.2)	75.7	(73.1-78.2)	47.8	(44.8-50.8)
Some college	94.5	(92.8-95.9)	61.8	(58.7-64.8)	77.9	(75.2-80.4)	53.9	(50.8-57.0)
College graduate	93.9	(92.2-95.3)	63.6	(60.6-66.4)	80.7	(78.1-83.0)	55.7	(52.8-58.6)
<b>Household Income</b>								
< \$20,000	91.8	(89.1-93.8)	47.4	(42.6-52.2)	63.4	(58.7-67.8)	35.7	(31.2-40.3)
\$20,000 - \$34,999	94.5	(92.1-96.2)	57.3	(53.4-61.0)	75.9	(72.4-79.2)	45.7	(41.9-49.5)
\$35,000 - \$49,999	97.1	(95.1-98.3)	61.3	(56.7-65.8)	81.2	(77.4-84.6)	53.8	(49.1-58.4)
\$50,000 - \$74,999	94.6	(91.7-96.6)	68.2	(63.7-72.4)	81.9	(77.8-85.5)	61.3	(56.7-65.8)
\$75,000 +	94.8	(92.9-96.2)	66.0	(62.2-69.6)	81.4	(78.1-84.2)	60.5	(56.6-64.3)

Note: Data included diagnostic tests.

<sup>a</sup> Among women aged 40 years and older, the proportion who reported ever having a mammogram. (N = 5,053)

<sup>b</sup> Among women aged 40 years and older, the proportion who reported having a mammogram in the past year. (N = 5,008)

<sup>c</sup> Among women aged 40 years and older, the proportion who reported having a mammogram in the past two years. (N = 5,008)

<sup>d</sup> Among women aged 40 years and older, the proportion who reported having a clinical breast exam and a mammogram in the past year. (N = 4,994)

<b>Table 18: Cervical Cancer Screening 2012 Michigan BRFSS</b>				
	<b>Ever Had Pap Test<sup>a</sup></b>		<b>Had Appropriately Timed Pap Test<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>92.1</b>	<b>(90.6-93.4)</b>	<b>79.4</b>	<b>(77.6-81.1)</b>
<b>Age</b>				
18 - 29	72.4	(67.1-77.2)	67.7	(62.2-72.8)
30 - 39	97.6	(95.5-98.7)	91.5	(88.3-93.9)
40 - 49	98.6	(97.0-99.4)	87.2	(83.8-90.0)
50 - 59	99.4	(98.6-99.7)	86.3	(83.3-88.8)
60 - 69	98.7	(97.4-99.4)	82.0	(78.6-85.0)
70 +	95.4	(93.3-96.9)	55.9	(51.5-60.2)
<b>Race/Ethnicity</b>				
White non-Hispanic	93.1	(91.5-94.4)	78.9	(76.9-80.8)
Black non-Hispanic	91.3	(87.0-94.3)	84.5	(79.7-88.3)
Other non-Hispanic	88.6	(79.9-93.9)	74.6	(64.3-82.7)
Hispanic	82.0	(67.1-91.1)	77.3	(62.8-87.3)
<b>Education</b>				
Less than high school	89.1	(80.8-94.1)	67.8	(58.6-75.8)
High school graduate	91.6	(88.6-93.8)	75.6	(72.2-78.7)
Some college	91.0	(88.2-93.2)	80.2	(77.2-83.0)
College graduate	95.5	(93.7-96.9)	87.1	(84.9-89.1)
<b>Household Income</b>				
< \$20,000	91.4	(88.2-93.8)	71.5	(66.8-75.8)
\$20,000 - \$34,999	94.9	(91.5-96.9)	77.0	(72.8-80.8)
\$35,000 - \$49,999	94.9	(91.0-97.2)	82.9	(78.4-86.7)
\$50,000 - \$74,999	94.6	(90.3-97.0)	87.0	(82.8-90.3)
\$75,000 +	92.7	(88.8-95.3)	86.1	(82.2-89.2)
Note: Data included diagnostic tests.				
<sup>a</sup> Among women aged 18 years and older, the proportion who reported ever having a Pap test. (N = 4,262)				
<sup>b</sup> Among women aged 18 years and older, the proportion who reported having a Pap test within the previous three years. (N = 4,153)				

**Table 19: Prostate Cancer Screening Among Men Aged 50 Years and Older  
2012 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>73.0</b>	<b>(70.6-75.4)</b>	<b>67.3</b>	<b>(64.7-69.7)</b>	<b>72.2</b>	<b>(69.6-74.6)</b>	<b>46.9</b>	<b>(44.4-49.5)</b>
<b>Age</b>								
50 - 59	67.3	(63.0-71.4)	62.0	(57.5-66.3)	63.4	(58.9-67.7)	37.7	(33.6-42.0)
60 - 69	76.4	(72.2-80.1)	72.1	(68.0-75.8)	76.5	(72.4-80.1)	53.9	(49.8-58.0)
70 +	78.5	(74.5-82.0)	70.0	(65.8-74.0)	81.2	(77.3-84.6)	53.6	(49.2-57.9)
<b>Race/Ethnicity</b>								
White non-Hispanic	73.9	(71.4-76.3)	68.3	(65.7-70.8)	74.1	(71.6-76.5)	49.0	(46.4-51.7)
Black non-Hispanic	70.5	(59.0-79.9)	65.8	(54.4-75.6)	62.0	(50.2-72.5)	40.4	(31.0-50.6)
Other non-Hispanic	68.4	(56.2-78.5)	56.5	(43.7-68.5)	63.1	(50.6-74.1)	28.0	(18.6-39.8)
Hispanic	-- <sup>e</sup>	---	-- <sup>e</sup>	---	-- <sup>e</sup>	---	-- <sup>e</sup>	---
<b>Education</b>								
< High school	49.4	(40.1-58.7)	42.9	(33.9-52.4)	53.1	(43.5-62.6)	31.3	(23.2-40.6)
High school graduate	71.6	(67.5-75.4)	66.8	(62.5-70.9)	70.3	(65.9-74.3)	47.5	(42.9-52.0)
Some college	76.9	(72.8-80.5)	69.7	(65.4-73.7)	73.4	(69.1-77.4)	46.2	(41.8-50.6)
College graduate	83.9	(80.8-86.5)	79.3	(75.9-82.3)	84.0	(80.8-86.8)	56.4	(52.5-60.2)
<b>Household Income</b>								
< \$20,000	54.0	(45.4-62.4)	48.8	(40.3-57.3)	49.5	(41.0-58.1)	29.4	(22.3-37.6)
\$20,000 - \$34,999	66.4	(60.8-71.6)	60.3	(54.7-65.7)	65.4	(59.8-70.7)	42.3	(37.2-47.7)
\$35,000 - \$49,999	75.7	(69.7-80.9)	70.7	(64.5-76.3)	75.4	(69.0-80.9)	48.5	(42.2-54.7)
\$50,000 - \$74,999	81.2	(75.5-85.9)	73.6	(67.4-79.1)	77.8	(71.9-82.8)	48.7	(42.5-55.0)
\$75,000 +	82.8	(78.9-86.0)	76.7	(72.2-80.8)	83.7	(79.5-87.1)	56.0	(51.3-60.5)

Among men aged 50 years and older (N = 2,579), 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> The denominator for this subgroup was less than 50.

<b>Table 20: Colorectal Cancer Screening (Blood Stool Test) Among Adults Aged 50 Years and Older 2012 Michigan BRFSS</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>40.6</b>	<b>(39.1-42.1)</b>	<b>15.8</b>	<b>(14.7-16.9)</b>
<b>Age</b>				
50 - 59	27.9	(25.6-30.2)	11.1	(9.6-12.8)
60 - 69	48.5	(46.0-51.1)	18.7	(16.7-20.8)
70 +	50.6	(48.1-53.2)	19.6	(17.6-21.7)
<b>Gender</b>				
Male	37.2	(34.9-39.5)	15.7	(14.0-17.4)
Female	43.6	(41.8-45.5)	15.9	(14.5-17.3)
<b>Race/Ethnicity</b>				
White non-Hispanic	41.5	(40.0-43.1)	15.6	(14.5-16.8)
Black non-Hispanic	38.3	(33.3-43.6)	17.8	(14.3-22.1)
Other non-Hispanic	34.9	(27.3-43.3)	14.2	(8.8-22.1)
Hispanic	29.3	(18.4-43.3)	13.1	(7.0-23.2)
<b>Education</b>				
Less than high school	30.4	(25.2-36.0)	12.6	(9.4-16.7)
High school graduate	39.2	(36.8-41.8)	16.5	(14.6-18.5)
Some college	43.2	(40.6-45.9)	16.8	(14.9-18.9)
College graduate	44.4	(42.0-47.0)	14.9	(13.2-16.7)
<b>Household Income</b>				
< \$20,000	34.6	(30.8-38.7)	14.8	(12.0-18.0)
\$20,000 - \$34,999	39.7	(36.6-42.8)	17.0	(14.8-19.3)
\$35,000 - \$49,999	47.4	(43.5-51.4)	18.8	(16.0-22.1)
\$50,000 - \$74,999	42.6	(38.8-46.5)	15.0	(12.6-17.9)
\$75,000 +	39.2	(36.1-42.4)	13.5	(11.4-15.9)
<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 = 6,754) <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 = 6,666)				

**Table 21: Colorectal Cancer Screening (Sigmoidoscopy/Colonoscopy)  
Among Adults Aged 50 Years and Older  
2012 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>72.7</b>	<b>(71.2-74.1)</b>	<b>55.4</b>	<b>(53.8-57.0)</b>	<b>67.3</b>	<b>(65.8-68.9)</b>
<b>Age</b>						
50 - 59	62.4	(59.6-65.1)	49.1	(46.4-51.9)	58.9	(56.1-61.6)
60 - 69	80.1	(77.9-82.2)	59.9	(57.3-62.4)	74.7	(72.3-77.0)
70 +	79.5	(77.2-81.6)	59.8	(57.2-62.3)	71.7	(69.2-74.1)
<b>Gender</b>						
Male	70.0	(67.5-72.4)	55.3	(52.8-57.8)	65.1	(62.6-67.6)
Female	75.0	(73.2-76.7)	55.5	(53.5-57.4)	69.3	(67.4-71.1)
<b>Race/Ethnicity</b>						
White non-Hispanic	74.2	(72.7-75.7)	55.9	(54.3-57.6)	68.7	(67.1-70.3)
Black non-Hispanic	65.3	(59.3-71.0)	54.5	(48.8-60.2)	61.1	(55.1-66.9)
Other non-Hispanic	61.1	(52.6-68.9)	49.8	(41.3-58.3)	58.5	(50.0-66.5)
Hispanic	63.0	(48.9-75.1)	47.0	(33.5-60.9)	58.4	(44.1-71.4)
<b>Education</b>						
Less than high school	58.8	(52.3-65.1)	44.5	(38.2-50.9)	52.3	(45.7-58.9)
High school graduate	70.9	(68.3-73.3)	54.2	(51.6-56.9)	64.9	(62.2-67.4)
Some college	74.5	(71.9-76.9)	57.3	(54.6-60.0)	70.1	(67.5-72.7)
College graduate	80.1	(77.9-82.1)	60.3	(57.7-62.7)	74.7	(72.3-76.9)
<b>Household Income</b>						
< \$20,000	60.0	(55.5-64.4)	44.8	(40.5-49.3)	53.1	(48.6-57.7)
\$20,000 - \$34,999	69.6	(66.3-72.8)	53.8	(50.5-57.1)	63.3	(59.9-66.6)
\$35,000 - \$49,999	77.4	(73.7-80.7)	57.6	(53.6-61.5)	71.8	(67.9-75.4)
\$50,000 - \$74,999	76.0	(72.1-79.5)	57.5	(53.5-61.5)	72.1	(68.2-75.7)
\$75,000 +	77.6	(74.4-80.5)	60.8	(57.4-64.1)	73.7	(70.4-76.7)

<sup>a</sup> Among adults aged 50 years and older, the proportion who reported ever having a sigmoidoscopy or colonoscopy. (N = 6,763)

<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 = 6,687)

<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 = 6,578)

<b>Table 22: Oral Health 2012 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>32.0</b>	<b>(30.7-33.3)</b>	<b>15.8</b>	<b>(14.9-16.7)</b>
<b>Age</b>				
18 - 24	31.3	(27.1-35.9)	0.8	(0.3-2.2)
25 - 34	41.8	(37.7-45.9)	3.1	(2.0-4.9)
35 - 44	33.7	(30.4-37.3)	6.7	(5.0-9.1)
45 - 54	31.6	(28.8-34.5)	15.4	(13.2-17.9)
55 - 64	26.6	(24.3-29.1)	25.8	(23.4-28.4)
65 - 74	27.5	(24.9-30.3)	32.1	(29.5-34.8)
75 +	29.4	(26.5-32.5)	40.7	(37.5-44.0)
<b>Gender</b>				
Male	36.2	(34.2-38.3)	15.7	(14.3-17.2)
Female	28.0	(26.4-29.6)	15.8	(14.7-17.0)
<b>Race/Ethnicity</b>				
White non-Hispanic	29.1	(27.8-30.5)	15.3	(14.3-16.3)
Black non-Hispanic	44.8	(40.7-48.9)	21.8	(18.7-25.2)
Other non-Hispanic	41.9	(35.9-48.2)	12.6	(9.4-16.7)
Hispanic	36.9	(28.8-45.8)	7.5	(4.5-12.3)
<b>Education</b>				
Less than high school	55.2	(49.7-60.6)	34.6	(29.9-39.6)
High school graduate	34.9	(32.7-37.1)	19.8	(18.3-21.5)
Some college	31.2	(29.1-33.4)	13.2	(12.0-14.6)
College graduate	17.4	(15.8-19.1)	4.4	(3.8-5.0)
<b>Household Income</b>				
< \$20,000	55.7	(52.2-59.2)	28.1	(25.2-31.3)
\$20,000 - \$34,999	42.4	(39.4-45.4)	22.4	(20.2-24.8)
\$35,000 - \$49,999	28.3	(25.0-31.8)	16.6	(14.2-19.2)
\$50,000 - \$74,999	21.5	(18.6-24.7)	10.9	(9.0-13.1)
\$75,000 +	13.7	(11.9-15.7)	3.3	(2.6-4.2)
<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 = 10,401) <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 = 10,220)				

<b>Table 23: Immunizations among Adults Aged 65 Years and Older 2012 Michigan BRFS</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>55.4</b>	<b>(53.3-57.5)</b>	<b>66.8</b>	<b>(64.6-68.8)</b>
<b>Age</b>				
65 - 74	52.2	(49.4-54.9)	62.1	(59.3-64.9)
75 +	59.6	(56.5-62.7)	72.7	(69.5-75.6)
<b>Gender</b>				
Male	53.2	(49.7-56.6)	64.0	(60.5-67.5)
Female	57.1	(54.5-59.6)	68.8	(66.3-71.2)
<b>Race/Ethnicity</b>				
White non-Hispanic	57.5	(55.3-59.7)	68.4	(66.2-70.6)
Black non-Hispanic	37.8	(30.9-45.3)	53.6	(45.7-61.4)
Other non-Hispanic	42.2	(30.4-55.0)	62.5	(49.5-73.9)
Hispanic	-- <sup>c</sup>	---	-- <sup>c</sup>	---
<b>Education</b>				
Less than high school	49.8	(42.5-57.2)	60.0	(52.0-67.6)
High school graduate	53.9	(50.6-57.2)	65.7	(62.4-68.8)
Some college	56.8	(53.2-60.4)	68.3	(64.7-71.7)
College graduate	61.0	(57.4-64.5)	72.0	(68.5-75.2)
<b>Household Income</b>				
< \$20,000	44.6	(38.9-50.4)	62.6	(56.0-68.7)
\$20,000 - \$34,999	56.0	(52.2-59.7)	66.7	(63.0-70.3)
\$35,000 - \$49,999	59.4	(54.3-64.3)	65.6	(60.4-70.5)
\$50,000 - \$74,999	56.2	(50.1-62.1)	70.1	(64.2-75.3)
\$75,000 +	58.6	(52.7-64.4)	66.7	(60.7-72.1)
<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 = 3,481)				
<sup>b</sup> Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 3,383)				
<sup>c</sup> The denominator for this subgroup was less than 50.				

<b>Table 24: HIV Testing among Adults Aged 18 - 64 Years 2012 Michigan BRFSS</b>		
	<b>Ever Had an HIV Test<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>40.4</b>	<b>(38.9-42.0)</b>
<b>Age</b>		
18 – 24	28.2	(24.1-32.8)
25 – 34	54.1	(49.9-58.2)
35 – 44	56.3	(52.7-59.8)
45 – 54	39.2	(36.4-42.1)
55 – 64	24.5	(22.3-26.9)
<b>Gender</b>		
Male	36.2	(33.9-38.5)
Female	44.7	(42.6-46.8)
<b>Race/Ethnicity</b>		
White non-Hispanic	34.6	(32.9-36.3)
Black non-Hispanic	65.5	(60.8-69.8)
Other non-Hispanic	41.8	(35.5-48.4)
Hispanic	58.8	(49.0-68.0)
<b>Education</b>		
Less than high school	47.8	(40.9-54.8)
High school graduate	34.6	(31.9-37.5)
Some college	41.4	(38.8-44.0)
College graduate	42.6	(40.3-45.1)
<b>Household Income</b>		
< \$20,000	51.4	(47.3-55.5)
\$20,000 - \$34,999	42.7	(38.8-46.7)
\$35,000 - \$49,999	38.2	(33.9-42.6)
\$50,000 - \$74,999	38.4	(34.6-42.4)
\$75,000 +	37.0	(34.4-39.8)
<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 = 6,534)		

<b>Table 25: Asthma among Adults 2012 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>15.5</b>	<b>(14.6-16.6)</b>	<b>10.5</b>	<b>(9.7-11.4)</b>
<b>Age</b>				
18 - 24	23.4	(19.6-27.7)	15.0	(11.8-18.8)
25 - 34	17.9	(14.9-21.2)	10.0	(7.7-12.8)
35 - 44	14.8	(12.5-17.5)	9.6	(7.8-11.8)
45 - 54	14.9	(13.0-17.1)	11.0	(9.3-12.9)
55 - 64	13.4	(11.8-15.2)	10.0	(8.5-11.6)
65 - 74	12.2	(10.6-14.1)	9.5	(8.1-11.3)
75 +	10.4	(8.4-12.8)	7.2	(5.6-9.4)
<b>Gender</b>				
Male	13.4	(12.0-14.9)	7.7	(6.6-8.8)
Female	17.5	(16.2-19.0)	13.1	(11.9-14.4)
<b>Race/Ethnicity</b>				
White non-Hispanic	14.4	(13.4-15.5)	9.3	(8.5-10.2)
Black non-Hispanic	20.6	(17.5-24.0)	15.4	(12.7-18.5)
Other non-Hispanic	18.2	(14.1-23.3)	14.4	(10.6-19.2)
Hispanic	19.0	(12.6-27.6)	14.1	(8.5-22.4)
<b>Education</b>				
Less than high school	21.4	(17.3-26.1)	16.4	(12.8-20.9)
High school graduate	15.5	(13.9-17.4)	10.2	(8.8-11.7)
Some college	15.3	(13.8-17.1)	10.3	(9.1-11.8)
College graduate	12.9	(11.5-14.4)	8.1	(7.0-9.3)
<b>Household Income</b>				
< \$20,000	22.9	(20.1-26.0)	18.0	(15.4-20.9)
\$20,000 - \$34,999	14.7	(12.7-17.0)	9.5	(8.0-11.3)
\$35,000 - \$49,999	14.0	(11.8-16.6)	7.9	(6.2-9.9)
\$50,000 - \$74,999	12.3	(10.3-14.8)	8.8	(7.1-10.9)
\$75,000 +	12.2	(10.5-14.3)	8.0	(6.5-9.7)
<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 = 10,465)				
<sup>b</sup> Among all adults, the proportion who reported that they still had asthma. (N = 10,421)				

<b>Table 26: Asthma among Children 2012 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>14.4</b>	<b>(12.8-16.2)</b>	<b>9.5</b>	<b>(8.2-10.9)</b>
<b>Age</b>				
0 - 4	7.5	(5.0-11.1)	5.8	(3.7-8.9)
5 - 9	13.3	(10.1-17.4)	10.1	(7.3-13.7)
10 - 14	19.4	(16.2-23.1)	11.4	(9.0-14.2)
15 - 17	20.0	(16.5-24.1)	12.4	(9.7-15.8)
<b>Gender</b>				
Boy	15.9	(13.7-18.5)	10.1	(8.3-12.3)
Girl	13.0	(10.9-15.5)	8.9	(7.2-10.9)
<b>Race/Ethnicity</b>				
White non-Hispanic	13.2	(11.5-15.1)	9.4	(7.9-11.1)
Black non-Hispanic	15.1	(11.4-19.7)	9.3	(6.7-12.8)
Other non-Hispanic	22.1	(15.3-30.8)	13.7	(8.3-22.0)
Hispanic	16.6	(9.9-26.6)	6.6	(3.4-12.5)
<b>Respondent Education</b>				
Less than high school	13.2	(7.8-21.3)	7.4	(3.9-13.7)
High school graduate	14.3	(11.1-18.2)	9.2	(6.8-12.5)
Some college	18.1	(15.0-21.7)	12.0	(9.4-15.2)
College graduate	11.7	(9.6-14.2)	7.9	(6.3-9.9)
<b>Household Income</b>				
< \$20,000	18.0	(13.4-23.6)	14.1	(10.0-19.5)
\$20,000 - \$34,999	17.0	(12.9-22.0)	9.3	(6.5-13.2)
\$35,000 - \$49,999	15.5	(10.9-21.5)	9.3	(6.1-13.9)
\$50,000 - \$74,999	14.5	(10.6-19.6)	7.1	(4.8-10.5)
\$75,000 +	12.3	(10.1-14.9)	8.8	(6.9-11.1)
<p><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 = 2,403).</p> <p><sup>b</sup> Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 2,394)</p>				

<b>Table 27: Chronic Obstructive Pulmonary Disease (COPD) 2012 Michigan BRFSS</b>		
	<b>Ever Told COPD, Emphysema or Chronic Bronchitis<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>7.4</b>	<b>(6.8-8.1)</b>
<b>Age</b>		
18 - 24	4.1	(2.5-6.8)
25 - 34	4.3	(2.8-6.7)
35 - 44	3.4	(2.3-5.0)
45 - 54	8.1	(6.6-10.0)
55 - 64	10.7	(9.2-12.4)
65 - 75	11.9	(10.3-13.7)
75 +	12.2	(10.4-14.2)
<b>Gender</b>		
Male	6.3	(5.5-7.3)
Female	8.5	(7.6-9.5)
<b>Race/Ethnicity</b>		
White/Non-Hispanic	7.0	(6.3-7.7)
Black/Non-Hispanic	9.5	(7.5-12.0)
Other/Non-Hispanic	9.1	(6.5-12.7)
Hispanic	6.9	(3.1-14.6)
<b>Education</b>		
Less than high school	15.5	(12.2-19.4)
High school graduate	8.2	(7.1-9.4)
Some college	6.6	(5.7-7.7)
College graduate	3.5	(3.0-4.2)
<b>Household Income</b>		
< \$20,000	14.5	(12.2-17.1)
\$20,000 - \$34,999	9.3	(8.0-10.9)
\$35,000 - \$49,999	6.9	(5.4-8.7)
\$50,000 - \$74,999	4.3	(3.3-5.7)
\$75,000 +	3.0	(2.1-4.4)
<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 = 10,445)		

<b>Table 28: Arthritis 2012 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>31.8</b>	<b>(30.7-33.0)</b>
<b>Age</b>		
18 - 24	4.1	(2.7-6.2)
25 - 34	9.6	(7.5-12.1)
35 - 44	18.9	(16.3-21.7)
45 - 54	35.2	(32.4-38.0)
55 - 64	49.2	(46.7-51.7)
65 - 75	58.6	(55.9-61.3)
75 +	62.8	(59.7-65.8)
<b>Gender</b>		
Male	28.0	(26.3-29.7)
Female	35.4	(33.9-37.0)
<b>Race/Ethnicity</b>		
White/Non-Hispanic	33.0	(31.7-34.2)
Black/Non-Hispanic	29.9	(26.6-33.5)
Other/Non-Hispanic	28.3	(23.4-33.9)
Hispanic	16.1	(11.6-22.0)
<b>Education</b>		
Less than high school	35.9	(31.3-40.9)
High school graduate	35.9	(33.9-38.0)
Some college	31.7	(29.8-33.7)
College graduate	24.5	(22.9-26.1)
<b>Household Income</b>		
< \$20,000	39.1	(35.8-42.4)
\$20,000 - \$34,999	36.9	(34.3-39.7)
\$35,000 - \$49,999	35.8	(32.6-39.0)
\$50,000 - \$74,999	29.2	(26.4-32.1)
\$75,000 +	21.1	(19.2-23.1)
<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 = 10,453)		

**Table 29: Cardiovascular Disease  
2012 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>5.2</b>	<b>(4.7-5.8)</b>	<b>5.1</b>	<b>(4.6-5.6)</b>	<b>3.5</b>	<b>(3.1-3.9)</b>	<b>9.9</b>	<b>(9.2-10.6)</b>
<b>Age</b>								
18 - 34	0.3	(0.1-0.9)	0.2	(0.0-0.7)	0.4	(0.2-1.1)	0.9	(0.5-1.7)
35 - 44	1.7	(1.0-2.9)	1.0	(0.5-1.9)	1.9	(1.1-3.2)	3.8	(2.7-5.5)
45 - 54	3.7	(2.5-5.5)	3.7	(2.6-5.1)	3.7	(2.6-5.2)	7.8	(6.1-9.9)
55 - 64	8.7	(7.2-10.5)	7.9	(6.5-9.5)	4.5	(3.6-5.6)	14.5	(12.7-16.5)
65 - 74	12.2	(10.4-14.3)	13.5	(11.7-15.5)	7.2	(5.9-8.7)	23.2	(20.9-25.6)
75 +	16.1	(13.8-18.6)	16.2	(14.1-18.6)	9.3	(7.6-11.3)	30.2	(27.3-33.2)
<b>Gender</b>								
Male	7.2	(6.3-8.2)	6.6	(5.8-7.5)	3.5	(2.8-4.2)	11.8	(10.7-13.0)
Female	3.4	(2.9-3.9)	3.6	(3.2-4.1)	3.4	(3.0-4.0)	8.0	(7.3-8.8)
<b>Race/Ethnicity</b>								
White non-Hispanic	5.2	(4.7-5.8)	5.2	(4.7-5.8)	3.1	(2.7-3.6)	9.6	(8.9-10.4)
Black non-Hispanic	5.8	(4.1-8.2)	4.5	(3.3-6.0)	5.2	(3.7-7.1)	12.1	(9.7-14.9)
Other non-Hispanic	5.0	(3.0-8.2)	5.9	(3.7-9.3)	4.5	(2.9-7.0)	9.3	(6.6-12.9)
Hispanic	3.9	(2.0-7.6)	3.0	(1.4-6.5)	2.7	(1.1-6.5)	7.3	(4.3-12.1)
<b>Education</b>								
< High school	9.6	(7.1-12.9)	6.8	(4.9-9.3)	5.8	(4.1-8.0)	14.7	(11.6-18.3)
High school graduate	6.6	(5.6-7.6)	6.2	(5.3-7.2)	3.9	(3.2-4.8)	12.3	(11.0-13.6)
Some college	4.4	(3.7-5.2)	4.5	(3.8-5.3)	3.4	(2.8-4.2)	8.8	(7.8-10.0)
College graduate	2.5	(2.0-3.0)	3.5	(3.0-4.2)	1.7	(1.3-2.2)	5.8	(5.1-6.6)
<b>Household Income</b>								
< \$20,000	8.8	(7.2-10.7)	8.0	(6.5-9.9)	5.5	(4.4-6.7)	14.6	(12.6-16.8)
\$20,000 - \$34,999	7.3	(5.9-8.9)	7.1	(5.9-8.4)	5.1	(4.1-6.4)	13.5	(11.8-15.4)
\$35,000 - \$49,999	5.4	(4.2-7.1)	5.9	(4.7-7.4)	3.2	(2.2-4.6)	10.4	(8.6-12.5)
\$50,000 - \$74,999	3.8	(2.9-5.0)	3.1	(2.3-4.1)	2.0	(1.3-3.0)	7.0	(5.7-8.6)
\$75,000 +	1.7	(1.2-2.3)	2.2	(1.7-2.8)	1.4	(0.9-2.3)	4.1	(3.3-5.0)

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 = 10,458);

<sup>b</sup> they had angina or coronary heart disease (N = 10,416);

<sup>c</sup> they had a stroke. (N = 10,458)

<sup>d</sup> they had a heart attack, coronary heart disease or a stroke. (N = 10,401)

<b>Table 30: Cancer 2012 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>5.7</b>	<b>(5.3-6.2)</b>	<b>7.9</b>	<b>(7.3-8.5)</b>	<b>12.3</b>	<b>(11.6-13.0)</b>
<b>Age</b>						
18 - 34	0.5	(0.2-1.2)	2.5	(1.6-3.7)	2.7	(1.8-4.0)
35 - 44	1.4	(0.9-2.3)	3.4	(2.3-5.0)	4.6	(3.3-6.2)
45 - 54	4.3	(3.3-5.7)	7.1	(5.7-8.9)	10.5	(8.8-12.4)
55 - 64	8.3	(7.0-9.7)	9.7	(8.3-11.2)	16.9	(15.2-18.8)
65 - 74	13.7	(12.0-15.6)	16.0	(14.1-18.1)	25.8	(23.5-28.2)
75 +	19.6	(17.2-22.3)	22.6	(20.1-25.4)	36.9	(33.9-40.0)
<b>Gender</b>						
Male	5.3	(4.7-6.0)	6.2	(5.4-7.0)	10.4	(9.4-11.4)
Female	6.1	(5.5-6.9)	9.5	(8.6-10.5)	14.1	(13.0-15.2)
<b>Race/Ethnicity</b>						
White non-Hispanic	7.0	(6.5-7.6)	8.4	(7.7-9.2)	13.9	(13.0-14.7)
Black non-Hispanic	1.0	(0.4-2.5)	5.9	(4.5-7.7)	6.5	(5.0-8.5)
Other non-Hispanic	2.1	(1.2-3.5)	6.1	(3.8-9.6)	7.5	(5.1-11.0)
Hispanic	0.2	(0.0-1.3)	4.8	(2.6-8.6)	4.8	(2.6-8.6)
<b>Education</b>						
Less than high school	5.0	(3.5-7.2)	11.4	(8.7-14.7)	14.1	(11.3-17.6)
High school graduate	5.7	(4.9-6.6)	8.7	(7.7-9.9)	13.2	(11.9-14.6)
Some college	5.6	(4.8-6.5)	6.8	(6.0-7.9)	11.2	(10.1-12.5)
College graduate	6.5	(5.7-7.3)	6.6	(5.7-7.5)	11.8	(10.7-13.0)
<b>Household Income</b>						
< \$20,000	4.4	(3.3-5.7)	10.6	(8.7-12.8)	13.1	(11.1-15.5)
\$20,000 - \$34,999	5.8	(4.8-7.0)	8.7	(7.5-10.2)	13.5	(11.9-15.2)
\$35,000 - \$49,999	7.2	(5.9-8.8)	8.2	(6.7-10.0)	13.7	(11.8-15.8)
\$50,000 - \$74,999	5.4	(4.3-6.7)	7.7	(6.1-9.7)	12.1	(10.2-14.2)
\$75,000 +	6.0	(5.0-7.0)	5.6	(4.7-6.6)	10.5	(9.3-11.9)

<sup>a</sup> Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 10,473)  
<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 = 10,468)  
<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 = 10,454)

<b>Table 31: Diabetes 2012 Michigan BRFSS</b>		
	<b>Ever Told Diabetes<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>10.5</b>	<b>(9.7-11.2)</b>
<b>Age</b>		
18 – 24	2.0	(1.0-3.9)
25 – 34	2.2	(1.2-3.8)
35 – 44	5.7	(4.0-8.1)
45 – 54	10.1	(8.4-12.1)
55 – 64	16.9	(15.0-19.0)
65 – 74	23.6	(21.3-25.9)
75 +	18.7	(16.2-21.4)
<b>Gender</b>		
Male	11.5	(10.3-12.8)
Female	9.5	(8.7-10.4)
<b>Race/Ethnicity</b>		
White non-Hispanic	9.6	(8.9-10.4)
Black non-Hispanic	13.8	(11.4-16.7)
Other non-Hispanic	11.0	(7.9-15.0)
Hispanic	13.9	(8.4-22.1)
<b>Education</b>		
Less than high school	14.6	(11.4-18.5)
High school graduate	12.1	(10.8-13.5)
Some college	9.8	(8.7-11.1)
College graduate	7.0	(6.1-8.0)
<b>Household Income</b>		
< \$20,000	14.4	(12.3-16.7)
\$20,000 - \$34,999	13.4	(11.6-15.5)
\$35,000 - \$49,999	11.1	(9.3-13.2)
\$50,000 - \$74,999	8.9	(7.0-11.2)
\$75,000 +	6.0	(5.0-7.2)
<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 = 10,484)		

<b>Table 32: Kidney Disease 2012 Michigan BRFSS</b>		
	<b>Ever Told Kidney Disease<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>3.4</b>	<b>(2.9-3.9)</b>
<b>Age</b>		
18 – 24	1.9	(1.0-3.8)
25 – 34	1.1	(0.5-2.4)
35 – 44	1.8	(0.9-3.4)
45 – 54	3.4	(2.3-4.9)
55 – 64	4.2	(3.4-5.3)
65 – 74	6.1	(5.0-7.4)
75 +	7.6	(5.8-9.8)
<b>Gender</b>		
Male	2.7	(2.1-3.5)
Female	4.0	(3.4-4.7)
<b>Race/Ethnicity</b>		
White non-Hispanic	3.1	(2.7-3.6)
Black non-Hispanic	5.0	(3.4-7.4)
Other non-Hispanic	3.3	(2.0-5.4)
Hispanic	4.0	(1.8-8.6)
<b>Education</b>		
Less than high school	6.0	(3.8-9.2)
High school graduate	3.8	(3.1-4.6)
Some college	2.8	(2.3-3.5)
College graduate	2.3	(1.8-2.8)
<b>Household Income</b>		
< \$20,000	4.3	(3.1-5.9)
\$20,000 - \$34,999	4.6	(3.4-6.1)
\$35,000 - \$49,999	3.1	(2.3-4.3)
\$50,000 - \$74,999	2.5	(1.8-3.6)
\$75,000 +	1.9	(1.3-2.6)
<sup>a</sup> Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease. (N = 10,471)		

<b>Table 33: Depression 2012 Michigan BRFSS</b>		
	<b>Ever Told Depression<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>20.6</b>	<b>(19.5-21.7)</b>
<b>Age</b>		
18 – 24	20.5	(16.8-24.7)
25 – 34	20.9	(17.7-24.5)
35 – 44	20.7	(18.0-23.6)
45 – 54	23.6	(21.2-26.3)
55 – 64	23.1	(21.0-25.3)
65 – 74	17.0	(15.1-19.1)
75 +	12.7	(10.7-15.0)
<b>Gender</b>		
Male	15.1	(13.7-16.6)
Female	25.8	(24.2-27.4)
<b>Race/Ethnicity</b>		
White non-Hispanic	20.6	(19.5-21.8)
Black non-Hispanic	17.5	(14.6-21.0)
Other non-Hispanic	21.7	(17.1-27.2)
Hispanic	30.9	(22.8-40.4)
<b>Education</b>		
Less than high school	27.7	(23.0-33.0)
High school graduate	21.5	(19.7-23.5)
Some college	21.1	(19.4-23.0)
College graduate	15.0	(13.6-16.5)
<b>Household Income</b>		
< \$20,000	33.8	(30.5-37.2)
\$20,000 - \$34,999	22.7	(20.4-25.3)
\$35,000 - \$49,999	19.4	(16.8-22.3)
\$50,000 - \$74,999	16.1	(13.9-18.7)
\$75,000 +	12.1	(10.4-14.0)
<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 = 10,464)		

<b>Table 34: Visual Impairment 2012 Michigan BRFSS</b>		
	<b>Ever Told Non-Correctable Visual Impairment<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>17.1</b>	<b>(16.2-18.1)</b>
<b>Age</b>		
18 – 24	14.8	(11.6-18.6)
25 – 34	13.7	(11.2-16.7)
35 – 44	12.1	(9.9-14.7)
45 – 54	21.0	(18.7-23.6)
55 – 64	20.2	(18.1-22.4)
65 – 74	18.3	(16.3-20.6)
75 +	20.2	(17.8-22.8)
<b>Gender</b>		
Male	15.3	(13.9-16.8)
Female	18.9	(17.6-20.3)
<b>Race/Ethnicity</b>		
White non-Hispanic	15.9	(14.9-16.9)
Black non-Hispanic	23.9	(20.6-27.5)
Other non-Hispanic	17.9	(13.8-22.9)
Hispanic	19.8	(13.4-28.3)
<b>Education</b>		
Less than high school	28.1	(23.5-33.1)
High school graduate	18.1	(16.5-19.8)
Some college	15.7	(14.2-17.4)
College graduate	12.3	(11.1-13.7)
<b>Household Income</b>		
< \$20,000	29.3	(26.2-32.5)
\$20,000 - \$34,999	18.5	(16.3-20.9)
\$35,000 - \$49,999	14.7	(12.5-17.2)
\$50,000 - \$74,999	12.2	(10.2-14.5)
\$75,000 +	10.7	(9.1-12.4)
<sup>a</sup> Among all adults, the proportion who reported ever being told by a doctor that they had a visual impairment in one or both eyes, even when wearing glasses. (N = 10,444)		

<b>Table 35: Falls Among Adults Aged 45 Years and Older 2012 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>17.4</b>	<b>(16.3-18.6)</b>	<b>6.1</b>	<b>(5.4-7.0)</b>
<b>Age</b>				
45 - 54	18.9	(16.6-21.4)	6.7	(5.2-8.6)
55 - 64	17.2	(15.3-19.3)	6.3	(5.0-7.9)
65 - 74	14.3	(12.5-16.2)	4.9	(3.9-6.2)
75 +	18.8	(16.2-21.6)	5.9	(4.3-7.9)
<b>Gender</b>				
Male	15.7	(14.0-17.6)	4.9	(3.8-6.4)
Female	19.0	(17.5-20.5)	7.2	(6.2-8.3)
<b>Race/Ethnicity</b>				
White non-Hispanic	16.5	(15.3-17.7)	5.4	(4.7-6.2)
Black non-Hispanic	22.9	(18.4-28.1)	10.2	(6.6-15.3)
Other non-Hispanic	22.4	(16.4-29.8)	10.3	(6.0-17.0)
Hispanic	16.3	(9.5-26.5)	6.2	(2.8-13.1)
<b>Respondent Education</b>				
Less than high school	26.7	(21.5-32.8)	12.8	(8.7-18.5)
High school graduate	15.5	(13.8-17.4)	4.7	(3.8-5.8)
Some college	17.4	(15.5-19.4)	6.2	(5.1-7.5)
College graduate	15.8	(14.2-17.5)	4.8	(3.9-5.9)
<b>Household Income</b>				
< \$20,000	28.3	(24.7-32.3)	13.0	(10.1-16.4)
\$20,000 - \$34,999	17.7	(15.3-20.5)	7.4	(5.5-9.7)
\$35,000 - \$49,999	15.9	(13.3-19.0)	3.8	(2.6-5.4)
\$50,000 - \$74,999	14.0	(11.6-16.9)	3.8	(2.7-5.4)
\$75,000 +	13.3	(11.4-15.4)	3.7	(2.8-5.0)
<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 = 7,705) <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 = 7,698)				