

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

## **State of Michigan**

### **Selected Tables**

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

**2011**

Chronic Disease Epidemiology Unit  
Surveillance and Program Evaluation Section  
Division of Genomics, Perinatal Health, and Chronic Disease Epidemiology  
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.

Due to increases in the utilization of cell phone communication, 2011 marks the first year in which the Michigan BRFS collected data from both land line and cell phone interviews. In 2011, the total sample size of completed interviews for the core survey was 11,049 (land line = 9,308; cell phone = 1,741). 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 11,049. 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 2011 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 2011 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.

To allow for the incorporation of cell phone data into the final Michigan BRFS dataset and to improve the accuracy of prevalence estimates based on Michigan BRFS data, a new weighting methodology, known as iterative proportional fitting or raking, was introduced in 2011. Estimates based on this new 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.

### **Important Disclaimer for 2011**

**Significant changes have been made to the BRFS methodology in 2011. As a result, the estimates provided within the following tables should not be compared to Michigan BRFS estimates from previous years. For more information regarding these changes, please visit the following website: <http://www.cdc.gov/surveillancepractice/reports/brfss/brfss.html>.**

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 2011 Michigan BRFSS</b>		
	<b>General Health, Fair or Poor<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>17.2</b>	<b>(16.2-18.3)</b>
<b>Age</b>		
18 – 24	7.8	(5.5-10.9)
25 – 34	13.5	(10.9-16.6)
35 – 44	15.1	(12.5-18.1)
45 – 54	19.0	(16.6-21.6)
55 – 64	21.3	(19.0-23.7)
65 – 74	21.0	(18.4-23.9)
75 +	26.7	(23.4-30.3)
<b>Gender</b>		
Male	16.9	(15.4-18.6)
Female	17.5	(16.2-19.0)
<b>Race/Ethnicity</b>		
White non-Hispanic	15.7	(14.6-16.9)
Black non-Hispanic	24.5	(21.2-28.2)
Other non-Hispanic	14.3	(11.0-18.3)
Hispanic	25.5	(18.4-34.3)
<b>Education</b>		
Less than high school	34.2	(29.5-39.2)
High school graduate	20.4	(18.5-22.3)
Some college	14.7	(13.1-16.5)
College graduate	7.4	(6.5-8.6)
<b>Household Income</b>		
< \$20,000	32.4	(29.3-35.7)
\$20,000 - \$34,999	23.0	(20.5-25.8)
\$35,000 - \$49,999	12.9	(10.7-15.5)
\$50,000 - \$74,999	9.5	(7.5-11.9)
\$75,000 +	5.8	(4.5-7.4)
<sup>a</sup> Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 11,037)		

**Table 2: Health Status on at Least 14 Days in the Past Month  
2011 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>13.1</b>	<b>(12.2-14.1)</b>	<b>13.1</b>	<b>(12.1-14.2)</b>	<b>9.4</b>	<b>(8.5-10.2)</b>
<b>Age</b>						
18 – 24	5.4	(3.4-8.3)	16.6	(13.1-20.8)	3.9	(2.3-6.4)
25 – 34	8.3	(6.3-11.0)	13.6	(11.0-16.9)	5.6	(4.0-7.8)
35 – 44	11.0	(8.8-13.7)	17.9	(15.1-21.1)	11.5	(9.1-14.3)
45 – 54	16.1	(13.9-18.6)	14.0	(12.0-16.2)	11.8	(10.0-14.0)
55 – 64	17.8	(15.7-20.2)	11.1	(9.5-13.0)	11.3	(9.6-13.4)
65 – 74	14.1	(12.1-16.3)	7.7	(6.2-9.7)	8.7	(7.1-10.6)
75 +	20.8	(17.6-24.3)	5.3	(3.7-7.7)	11.6	(9.0-14.8)
<b>Gender</b>						
Male	11.9	(10.6-13.4)	11.8	(10.4-13.4)	8.6	(7.4-9.8)
Female	14.2	(12.9-15.5)	14.4	(13.0-15.8)	10.1	(9.0-11.3)
<b>Race/Ethnicity</b>						
White non-Hispanic	12.5	(11.5-13.6)	12.9	(11.8-14.1)	8.9	(8.1-9.9)
Black non-Hispanic	15.6	(12.9-18.8)	13.4	(10.9-16.4)	11.0	(8.6-14.1)
Other non-Hispanic	12.6	(8.9-17.5)	14.5	(10.6-19.7)	11.3	(7.6-16.3)
Hispanic	14.5	(9.0-22.4)	17.3	(11.7-25.0)	9.5	(5.1-16.8)
<b>Education</b>						
Less than high school	22.8	(18.8-27.4)	22.6	(18.2-27.6)	18.2	(14.6-22.6)
High school graduate	14.0	(12.4-15.7)	13.2	(11.6-15.0)	10.2	(8.9-11.6)
Some college	13.2	(11.6-15.0)	14.0	(12.4-15.9)	8.9	(7.6-10.4)
College graduate	6.6	(5.7-7.6)	6.7	(5.7-7.9)	4.1	(3.4-4.9)
<b>Household Income</b>						
< \$20,000	21.8	(19.1-24.8)	24.6	(21.7-27.8)	19.6	(17.0-22.6)
\$20,000 - \$34,999	15.0	(12.9-17.4)	14.2	(12.0-16.7)	10.2	(8.5-12.2)
\$35,000 - \$49,999	9.0	(7.3-11.1)	9.9	(7.9-12.4)	6.1	(4.6-7.9)
\$50,000 - \$74,999	10.9	(8.8-13.5)	8.0	(6.1-10.4)	5.4	(3.8-7.5)
\$75,000 +	5.9	(4.6-7.6)	6.5	(5.0-8.3)	3.1	(2.1-4.6)

<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 = 10,866)

<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 = 10,915)

<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 = 10,970)

**Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations  
2011 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>4.1</b>	<b>(3.9-4.4)</b>	<b>4.2</b>	<b>(4.0-4.5)</b>	<b>2.9</b>	<b>(2.7-3.1)</b>
<b>Age</b>						
18 - 24	2.0	(1.5-2.5)	5.4	(4.4-6.3)	1.5	(1.0-1.9)
25 - 34	2.7	(2.1-3.3)	4.5	(3.8-5.3)	1.9	(1.4-2.3)
35 - 44	3.6	(3.0-4.2)	5.6	(4.8-6.4)	3.4	(2.8-4.1)
45 - 54	4.9	(4.3-5.5)	4.5	(4.0-5.1)	3.7	(3.1-4.2)
55 - 64	5.6	(5.0-6.2)	3.5	(3.0-3.9)	3.5	(3.0-4.0)
65 - 74	4.5	(4.0-5.1)	2.4	(2.0-2.9)	2.5	(2.1-2.9)
75 +	5.9	(5.0-6.8)	1.8	(1.3-2.4)	3.3	(2.5-4.0)
<b>Gender</b>						
Male	3.8	(3.4-4.2)	3.8	(3.4-4.2)	2.7	(2.4-3.1)
Female	4.4	(4.1-4.8)	4.6	(4.3-5.0)	3.0	(2.7-3.3)
<b>Race/Ethnicity</b>						
White non-Hispanic	4.0	(3.7-4.3)	4.2	(3.9-4.5)	2.7	(2.5-3.0)
Black non-Hispanic	4.7	(4.0-5.5)	4.2	(3.5-4.9)	3.4	(2.7-4.1)
Other non-Hispanic	4.0	(2.9-5.1)	4.3	(3.2-5.5)	3.4	(2.3-4.4)
Hispanic	4.0	(2.4-5.7)	4.9	(3.4-6.4)	3.1	(1.5-4.7)
<b>Education</b>						
Less than high school	6.9	(5.8-8.1)	6.9	(5.6-8.1)	5.3	(4.2-6.3)
High school graduate	4.3	(3.9-4.7)	4.2	(3.8-4.6)	3.0	(2.7-3.4)
Some college	4.1	(3.7-4.6)	4.4	(3.9-4.8)	2.8	(2.4-3.2)
College graduate	2.4	(2.2-2.6)	2.7	(2.4-2.9)	1.5	(1.3-1.6)
<b>Household Income</b>						
< \$20,000	6.6	(5.9-7.3)	7.2	(6.5-8.0)	5.7	(5.0-6.4)
\$20,000 - \$34,999	4.7	(4.1-5.2)	4.5	(3.9-5.0)	3.3	(2.8-3.7)
\$35,000 - \$49,999	3.1	(2.6-3.5)	3.4	(2.9-4.0)	1.9	(1.5-2.3)
\$50,000 - \$74,999	3.5	(2.9-4.1)	2.9	(2.4-3.5)	1.8	(1.3-2.3)
\$75,000 +	2.1	(1.8-2.5)	2.5	(2.1-2.9)	1.2	(0.9-1.6)

<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 = 10,866)

<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 = 10,915)

<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 = 10,970)

<b>Table 4: Disability 2011 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>28.2</b>	<b>(27.0-29.5)</b>	<b>26.4</b>	<b>(25.2-27.7)</b>	<b>8.4</b>	<b>(7.7-9.2)</b>
<b>Age</b>						
18 - 24	13.3	(10.0-17.4)	12.9	(9.7-17.0)	1.2	(0.5-2.8)
25 - 34	18.4	(15.3-21.9)	17.9	(14.9-21.4)	1.7	(0.9-3.3)
35 - 44	24.2	(21.1-27.6)	23.3	(20.2-26.7)	4.1	(2.9-5.7)
45 - 54	31.4	(28.6-34.4)	29.5	(26.7-32.5)	10.7	(8.7-13.0)
55 - 64	35.9	(33.3-38.6)	34.4	(31.9-37.1)	10.9	(9.2-12.9)
65 - 74	36.8	(33.8-39.9)	33.6	(30.7-36.7)	14.0	(12.0-16.4)
75 +	44.6	(40.9-48.4)	37.9	(34.3-41.7)	23.6	(20.4-27.1)
<b>Gender</b>						
Male	26.2	(24.4-28.1)	24.4	(22.6-26.3)	7.2	(6.2-8.3)
Female	30.1	(28.5-31.8)	28.3	(26.7-30.0)	9.6	(8.6-10.6)
<b>Race/Ethnicity</b>						
White non-Hispanic	28.8	(27.4-30.2)	27.1	(25.8-28.5)	7.7	(7.0-8.5)
Black non-Hispanic	26.0	(22.6-29.8)	24.3	(20.9-28.0)	12.7	(10.2-15.7)
Other non-Hispanic	25.3	(20.2-31.1)	23.9	(19.0-29.6)	6.6	(4.6-9.3)
Hispanic	26.5	(19.4-35.0)	22.6	(16.0-30.9)	9.1	(4.9-16.1)
<b>Education</b>						
Less than high school	36.3	(31.3-41.6)	32.1	(27.4-37.3)	16.0	(12.7-19.9)
High school graduate	30.0	(27.8-32.3)	28.2	(26.1-30.5)	9.1	(8.0-10.4)
Some college	28.5	(26.4-30.8)	27.1	(25.0-29.4)	7.9	(6.7-9.2)
College graduate	21.0	(19.4-22.7)	20.0	(18.4-21.7)	4.3	(3.6-5.0)
<b>Household Income</b>						
< \$20,000	41.8	(38.3-45.3)	39.2	(35.8-42.7)	16.8	(14.5-19.5)
\$20,000 - \$34,999	31.1	(28.3-34.0)	28.8	(26.1-31.6)	10.8	(9.1-12.7)
\$35,000 - \$49,999	25.6	(22.7-28.7)	23.8	(21.0-26.9)	5.9	(4.6-7.6)
\$50,000 - \$74,999	22.9	(20.0-26.2)	21.9	(19.0-25.1)	3.5	(2.6-4.8)
\$75,000 +	18.3	(16.1-20.7)	17.2	(15.1-19.6)	3.3	(2.3-4.8)

<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 = 10,691)

<sup>b</sup> Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems. (N = 10,688)

<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 = 10,718)

**Table 5: Weight Status  
2011 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>31.3</b>	<b>(30.0-32.6)</b>	<b>34.2</b>	<b>(32.8-35.5)</b>	<b>33.0</b>	<b>(31.6-34.4)</b>	<b>1.6</b>	<b>(1.2-2.1)</b>
<b>Age</b>								
18 - 24	17.3	(13.8-21.5)	24.7	(20.5-29.5)	52.9	(47.6-58.1)	5.1	(3.1-8.4)
25 - 34	31.3	(27.6-35.2)	31.4	(27.7-35.3)	35.8	(31.8-39.9)	1.6	(0.9-2.8)
35 - 44	33.3	(29.9-37.0)	34.2	(30.7-37.9)	32.1	(28.7-35.6)	0.4	(0.2-0.9)
45 - 54	34.7	(31.8-37.7)	35.6	(32.7-38.7)	28.5	(25.8-31.4)	1.1	(0.6-2.2)
55 - 64	38.0	(35.3-40.7)	35.0	(32.4-37.6)	25.9	(23.5-28.5)	1.1	(0.6-2.2)
65 - 74	34.0	(31.0-37.2)	41.9	(38.7-45.2)	23.4	(20.9-26.2)	0.7	(0.4-1.3)
75 +	24.2	(21.0-27.8)	39.6	(36.0-43.3)	34.5	(31.2-38.0)	1.6	(1.0-2.7)
<b>Gender</b>								
Male	31.9	(29.9-33.9)	38.0	(36.0-40.1)	29.1	(27.0-31.2)	1.0	(0.6-1.7)
Female	30.7	(28.9-32.4)	30.3	(28.6-32.0)	36.9	(35.1-38.7)	2.2	(1.6-3.0)
<b>Race/Ethnicity</b>								
White non-Hispanic	29.7	(28.3-31.2)	35.0	(33.5-36.5)	33.6	(32.1-35.2)	1.7	(1.2-2.2)
Black non-Hispanic	41.0	(36.9-45.2)	31.0	(27.1-35.2)	27.0	(23.2-31.1)	1.0	(0.4-2.3)
Other non-Hispanic	24.8	(19.2-31.4)	31.8	(25.6-38.7)	40.3	(33.0-48.1)	3.1	(1.3-7.4)
Hispanic	36.7	(28.7-45.4)	31.3	(23.9-39.7)	31.4	(24.0-39.9)	0.7	(0.1-3.1)
<b>Education</b>								
< High school	33.8	(29.0-39.0)	30.4	(25.7-35.5)	33.2	(28.0-38.9)	2.6	(1.2-5.6)
High school graduate	32.1	(29.8-34.5)	36.2	(33.8-38.7)	30.1	(27.7-32.5)	1.7	(1.1-2.6)
Some college	32.8	(30.5-35.2)	32.5	(30.2-34.9)	33.1	(30.7-35.6)	1.6	(1.0-2.5)
College graduate	26.6	(24.7-28.7)	36.0	(33.9-38.2)	36.4	(34.2-38.6)	0.9	(0.6-1.4)
<b>Household Income</b>								
< \$20,000	36.6	(33.3-40.1)	28.4	(25.4-31.7)	32.6	(29.2-36.2)	2.3	(1.4-3.9)
\$20,000 - \$34,999	32.4	(29.5-35.3)	36.1	(33.1-39.1)	29.6	(26.8-32.6)	2.0	(1.2-3.2)
\$35,000 - \$49,999	28.6	(25.4-32.0)	37.6	(34.1-41.3)	31.7	(28.3-35.3)	2.1	(1.2-3.8)
\$50,000 - \$74,999	32.6	(29.2-36.2)	37.6	(34.1-41.1)	29.2	(25.9-32.7)	0.7	(0.3-1.5)
\$75,000 +	28.2	(25.6-31.0)	34.8	(32.0-37.6)	36.6	(33.7-39.6)	0.4	(0.2-0.9)

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 = 10,579)

<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  
2011 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>18.3</b>	<b>(17.0-19.6)</b>	<b>15.5</b>	<b>(14.4-16.7)</b>	<b>16.5</b>	<b>(15.4-17.6)</b>
<b>Age</b>						
18 - 24	24.0	(19.9-28.6)	28.4	(24.0-33.3)	16.5	(13.2-20.4)
25 - 34	24.5	(21.2-28.2)	28.8	(25.2-32.7)	23.4	(20.2-27.0)
35 - 44	19.4	(16.5-22.6)	17.6	(14.9-20.6)	20.4	(17.5-23.6)
45 - 54	14.2	(12.2-16.4)	12.2	(10.3-14.4)	19.6	(17.1-22.3)
55 - 64	11.6	(9.9-13.5)	7.2	(5.8-8.9)	13.3	(11.6-15.3)
65 - 74	---	---	6.0	(4.4-7.9)	7.1	(5.7-8.9)
75 +	---	---	1.7	(1.1-2.7)	5.3	(3.9-7.0)
<b>Gender</b>						
Male	20.4	(18.4-22.5)	21.6	(19.7-23.5)	14.8	(13.3-16.5)
Female	16.2	(14.6-18.0)	9.8	(8.6-11.1)	18.0	(16.6-19.6)
<b>Race/Ethnicity</b>						
White non-Hispanic	15.9	(14.6-17.3)	13.9	(12.7-15.2)	14.7	(13.6-15.9)
Black non-Hispanic	27.6	(23.5-32.2)	19.4	(16.2-23.2)	23.2	(19.7-27.0)
Other non-Hispanic	19.9	(14.6-26.7)	25.0	(18.9-32.3)	16.4	(12.5-21.1)
Hispanic	28.3	(20.4-37.8)	26.2	(19.2-34.7)	29.3	(21.8-38.0)
<b>Education</b>						
Less than high school	34.5	(28.3-41.3)	23.6	(18.9-29.0)	24.1	(19.8-28.9)
High school graduate	21.6	(19.3-24.1)	17.3	(15.4-19.4)	17.2	(15.4-19.1)
Some college	16.5	(14.6-18.7)	14.1	(12.4-15.9)	18.0	(16.2-20.0)
College graduate	9.0	(7.6-10.7)	10.8	(9.4-12.4)	9.1	(7.9-10.5)
<b>Household Income</b>						
< \$20,000	34.7	(30.9-38.7)	24.4	(21.3-27.8)	31.6	(28.4-35.0)
\$20,000 - \$34,999	29.4	(25.9-33.2)	20.2	(17.6-23.2)	22.2	(19.6-25.1)
\$35,000 - \$49,999	15.3	(12.3-19.0)	11.9	(9.6-14.7)	13.2	(10.9-16.0)
\$50,000 - \$74,999	6.0	(4.3-8.4)	10.3	(8.1-13.0)	10.6	(8.4-13.2)
\$75,000 +	3.9	(2.8-5.5)	8.4	(6.7-10.5)	3.9	(2.8-5.4)

<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 = 7,367)

<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 = 11,007)

<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 = 11,034)

<b>Table 7: Medicaid and Medicare Coverage 2011 Michigan BRFS</b>						
<b>Demographic Characteristics</b>	<b>Medicaid Only<sup>a</sup></b>		<b>Medicare Only<sup>b</sup></b>		<b>Both Medicaid and Medicare<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>6.8</b>	<b>(6.1-7.7)</b>	<b>20.1</b>	<b>(19.2-21.1)</b>	<b>3.3</b>	<b>(2.9-3.8)</b>
<b>Age</b>						
18 - 24	13.8	(10.6-17.8)	6.0	(3.5-10.0)	1.6	(0.8-3.1)
25 - 34	12.6	(10.1-15.7)	1.1	(0.6-2.2)	1.5	(0.7-3.0)
35 - 44	7.8	(5.8-10.4)	3.9	(2.5-5.9)	3.6	(2.4-5.3)
45 - 54	5.2	(3.9-6.8)	5.1	(3.8-6.9)	2.2	(1.5-3.1)
55 - 64	2.9	(2.1-4.0)	10.8	(9.2-12.6)	2.4	(1.7-3.2)
65 - 74	2.1	(1.3-3.4)	84.5	(82.0-86.7)	7.5	(5.9-9.4)
75 +	1.2	(0.7-2.2)	86.0	(83.1-88.4)	8.5	(6.5-11.1)
<b>Gender</b>						
Male	5.3	(4.3-6.5)	18.4	(16.9-19.9)	3.4	(2.8-4.2)
Female	8.3	(7.2-9.5)	21.8	(20.5-23.1)	3.3	(2.7-3.9)
<b>Race/Ethnicity</b>						
White non-Hispanic	5.2	(4.5-6.1)	21.4	(20.3-22.5)	2.7	(2.3-3.2)
Black non-Hispanic	16.2	(13.2-19.9)	15.6	(13.2-18.4)	6.9	(5.2-8.9)
Other non-Hispanic	8.8	(5.6-13.5)	10.9	(8.0-14.6)	3.7	(2.1-6.3)
Hispanic	6.6	(3.7-11.5)	17.7	(11.8-25.8)	2.9	(1.2-7.0)
<b>Education</b>						
Less than high school	16.8	(13.0-21.5)	27.8	(23.6-32.5)	7.9	(5.8-10.7)
High school graduate	8.0	(6.7-9.5)	22.4	(20.7-24.2)	4.4	(3.7-5.4)
Some college	5.7	(4.7-7.0)	18.5	(16.9-20.2)	2.3	(1.7-3.0)
College graduate	1.5	(1.1-2.1)	15.3	(14.1-16.6)	1.0	(0.7-1.3)
<b>Household Income</b>						
< \$20,000	21.5	(18.6-24.7)	20.0	(17.7-22.6)	10.5	(8.7-12.6)
\$20,000 - \$34,999	7.6	(5.8-9.7)	29.6	(27.2-32.3)	3.3	(2.4-4.5)
\$35,000 - \$49,999	2.4	(1.5-3.9)	22.6	(20.1-25.4)	1.1	(0.6-1.9)
\$50,000 - \$74,999	0.9	(0.4-2.3)	15.0	(12.9-17.4)	1.5	(0.8-2.7)
\$75,000 +	0.7	(0.2-1.8)	7.5	(6.4-8.8)	0.3	(0.2-0.6)

<sup>a</sup> Among all adults, the proportion who reported that they currently have Medicaid insurance coverage, but not Medicare. (N = 10,833)

<sup>b</sup> Among all adults, the proportion who reported that they currently have Medicare insurance coverage, but not Medicaid. (N = 10,833)

<sup>c</sup> Among all adults, the proportion who reported that they currently have Medicaid and Medicare insurance coverage. (N = 10,833)

<b>Table 8: No Leisure-Time Physical Activity 2011 Michigan BRFSS</b>		
	<b>No Leisure-Time Physical Activity<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>23.6</b>	<b>(22.4-24.8)</b>
<b>Age</b>		
18 – 24	15.8	(12.4-19.9)
25 – 34	16.9	(14.1-20.0)
35 – 44	21.4	(18.5-24.7)
45 – 54	27.0	(24.2-29.9)
55 – 64	25.5	(23.1-28.1)
65 – 74	28.6	(25.6-31.7)
75 +	34.4	(30.8-38.1)
<b>Gender</b>		
Male	22.1	(20.3-23.9)
Female	25.0	(23.4-26.6)
<b>Race/Ethnicity</b>		
White non-Hispanic	22.2	(20.9-23.5)
Black non-Hispanic	30.1	(26.3-34.2)
Other non-Hispanic	24.5	(18.5-31.6)
Hispanic	28.9	(21.6-37.5)
<b>Education</b>		
Less than high school	36.3	(31.3-41.6)
High school graduate	28.5	(26.3-30.7)
Some college	20.7	(18.8-22.7)
College graduate	14.4	(13.0-15.9)
<b>Household Income</b>		
< \$20,000	32.4	(29.2-35.9)
\$20,000 - \$34,999	29.0	(26.3-31.9)
\$35,000 - \$49,999	19.5	(16.9-22.5)
\$50,000 - \$74,999	18.6	(16.0-21.5)
\$75,000 +	15.8	(13.7-18.2)
<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 = 10,772)		

<b>Table 9: Aerobic Physical Activity and Muscle Strengthening 2011 Michigan BRFS</b>				
	<b>Adequate Aerobic Physical Activity (≥ 150 minutes / week)<sup>a</sup></b>		<b>Adequate Muscle Strengthening (≥ 2 days / week)<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>53.5</b>	<b>(52.1-55.0)</b>	<b>28.8</b>	<b>(27.5-30.1)</b>
<b>Age</b>				
18 – 24	55.3	(49.9-60.5)	42.1	(37.0-47.5)
25 – 34	55.0	(50.9-59.0)	32.7	(29.0-36.7)
35 – 44	51.1	(47.3-54.8)	29.5	(26.2-33.0)
45 – 54	50.3	(47.2-53.4)	25.2	(22.7-28.0)
55 – 64	54.5	(51.7-57.3)	24.6	(22.3-27.0)
65 – 74	56.1	(52.8-59.4)	23.8	(21.2-26.6)
75 +	55.8	(51.9-59.6)	22.0	(19.1-25.2)
<b>Gender</b>				
Male	54.4	(52.2-56.6)	33.6	(31.5-35.8)
Female	52.6	(50.8-54.5)	24.2	(22.6-25.8)
<b>Race/Ethnicity</b>				
White non-Hispanic	55.4	(53.8-57.0)	27.6	(26.2-29.1)
Black non-Hispanic	44.3	(40.0-48.7)	32.5	(28.5-36.8)
Other non-Hispanic	55.9	(48.3-63.2)	33.0	(26.3-40.5)
Hispanic	44.1	(35.6-52.9)	35.6	(27.7-44.4)
<b>Education</b>				
Less than high school	41.9	(36.5-47.6)	21.7	(17.1-27.1)
High school graduate	51.7	(49.1-54.3)	24.4	(22.1-26.8)
Some college	53.3	(50.8-55.9)	29.9	(27.6-32.3)
College graduate	62.2	(60.0-64.3)	36.5	(34.3-38.7)
<b>Household Income</b>				
< \$20,000	45.0	(41.4-48.7)	24.3	(21.3-27.7)
\$20,000 - \$34,999	49.8	(46.6-52.9)	26.7	(23.9-29.7)
\$35,000 - \$49,999	55.6	(51.8-59.2)	25.0	(21.9-28.2)
\$50,000 - \$74,999	59.1	(55.4-62.7)	28.8	(25.6-32.2)
\$75,000 +	59.7	(56.7-62.6)	35.7	(32.9-38.7)
<sup>a</sup> Among all adults, the proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities. (N = 10,446)				
<sup>b</sup> Among all adults, the proportion who reported that they do muscle strengthening activities on two or more days per week. (N = 10,670)				

<b>Table 10: Adequate Physical Activity 2011 Michigan BRFSS</b>		
<b>Demographic Characteristics</b>	<b>Adequate Physical Activity<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>19.7</b>	<b>(18.6-20.9)</b>
<b>Age</b>		
18 - 24	25.8	(21.5-30.6)
25 - 34	21.5	(18.3-25.1)
35 - 44	19.5	(16.8-22.6)
45 - 54	18.4	(16.2-20.9)
55 - 64	17.8	(15.9-19.9)
65 - 74	17.6	(15.3-20.3)
75 +	16.5	(13.9-19.4)
<b>Gender</b>		
Male	21.6	(19.9-23.5)
Female	17.9	(16.5-19.4)
<b>Race/Ethnicity</b>		
White/Non-Hispanic	19.6	(18.3-20.8)
Black/Non-Hispanic	19.1	(16.0-22.6)
Other/Non-Hispanic	23.3	(17.1-30.8)
Hispanic	22.2	(15.7-30.6)
<b>Education</b>		
Less than high school	9.8	(6.9-13.6)
High school graduate	16.5	(14.5-18.8)
Some college	20.5	(18.5-22.6)
College graduate	27.7	(25.7-29.8)
<b>Household Income</b>		
< \$20,000	15.1	(12.6-17.9)
\$20,000 - \$34,999	16.7	(14.5-19.3)
\$35,000 - \$49,999	18.4	(15.8-21.4)
\$50,000 - \$74,999	20.5	(17.7-23.6)
\$75,000 +	26.1	(23.5-28.8)

<sup>a</sup> Among all adults, the proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities **and** also participate in muscle strengthening activities on two or more days per week. (N = 10,375)

<b>Table 11: Median Fruit and Vegetable Intake Per Day 2011 Michigan BRFSS</b>		
	<b>Median Fruit Intake (times/day)<sup>a</sup></b>	<b>Median Vegetable Intake (times/day)<sup>b</sup></b>
<b>Total</b>	<b>1.1</b>	<b>1.6</b>
<b>Age</b>		
18 – 24	1.0	1.3
25 – 34	1.1	1.6
35 – 44	1.0	1.5
45 – 54	1.0	1.6
55 – 64	1.1	1.6
65 – 74	1.1	1.6
75 +	1.5	1.6
<b>Gender</b>		
Male	1.0	1.4
Female	1.1	1.7
<b>Race/Ethnicity</b>		
White non-Hispanic	1.1	1.6
Black non-Hispanic	1.1	1.3
Other non-Hispanic	1.1	1.7
Hispanic	1.0	1.5
<b>Education</b>		
Less than high school	0.9	1.3
High school graduate	1.0	1.4
Some college	1.1	1.6
College graduate	1.3	1.9
<b>Household Income</b>		
< \$20,000	1.0	1.4
\$20,000 - \$34,999	1.0	1.4
\$35,000 - \$49,999	1.1	1.6
\$50,000 - \$74,999	1.1	1.7
\$75,000 +	1.3	1.8
<sup>a</sup> Among all adults, the median number of times per day during the past 30 days in which 100% pure fruit juices or fresh, frozen, or canned fruit were consumed. (N = 10,842) <sup>b</sup> Among all adults, the median number of times per day during the past 30 days in which cooked or canned beans, dark green vegetables, orange-colored vegetables, or other vegetables were consumed. (N = 10,822)		

<b>Table 12: Adequate Fruit and Vegetable Consumption 2011 Michigan BRFS</b>		
<b>Demographic Characteristics</b>	<b>Fruits and Vegetables (≥ 5 times / day)<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>17.8</b>	<b>(16.8-19.0)</b>
<b>Age</b>		
18 - 24	20.7	(16.6-25.4)
25 - 34	21.8	(18.6-25.4)
35 - 44	13.9	(11.5-16.7)
45 - 54	16.8	(14.7-19.0)
55 - 64	17.6	(15.5-19.8)
65 - 74	14.6	(12.7-16.8)
75 +	20.9	(18.0-24.1)
<b>Gender</b>		
Male	13.5	(12.0-15.2)
Female	21.9	(20.4-23.5)
<b>Race/Ethnicity</b>		
White/Non-Hispanic	17.2	(16.1-18.5)
Black/Non-Hispanic	20.4	(17.0-24.3)
Other/Non-Hispanic	19.9	(14.5-26.7)
Hispanic	18.8	(12.9-26.6)
<b>Education</b>		
Less than high school	16.7	(12.9-21.5)
High school graduate	14.5	(12.8-16.4)
Some college	18.0	(16.2-20.1)
College graduate	22.7	(20.9-24.5)
<b>Household Income</b>		
< \$20,000	16.5	(14.0-19.3)
\$20,000 - \$34,999	14.4	(12.4-16.7)
\$35,000 - \$49,999	16.4	(13.9-19.3)
\$50,000 - \$74,999	18.4	(15.7-21.4)
\$75,000 +	22.5	(20.1-25.2)
<sup>a</sup> Among all adults, the proportion whose total reported consumption of fruits (including juice) and vegetables was five or more times per day. (N = 10,813)		

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**Table 13: Cigarette Smoking  
2011 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>(22.0-24.6)</b>	<b>25.7</b>	<b>(24.5-26.8)</b>	<b>51.0</b>	<b>(49.6-52.4)</b>
<b>Age</b>						
18 – 24	24.3	(20.0-29.1)	8.2	(5.7-11.6)	67.6	(62.4-72.3)
25 – 34	33.1	(29.2-37.2)	17.4	(14.7-20.6)	49.4	(45.4-53.5)
35 – 44	26.1	(22.9-29.6)	19.2	(16.6-22.2)	54.7	(51.0-58.3)
45 – 54	28.0	(25.2-31.0)	24.9	(22.4-27.6)	47.1	(44.1-50.1)
55 – 64	19.3	(17.1-21.8)	35.9	(33.3-38.5)	44.8	(42.1-47.5)
65 – 74	14.1	(11.9-16.6)	43.7	(40.6-46.9)	42.1	(39.0-45.3)
75 +	4.9	(3.4-6.9)	42.3	(38.7-46.0)	52.9	(49.2-56.5)
<b>Gender</b>						
Male	27.2	(25.1-29.3)	27.9	(26.2-29.8)	44.9	(42.8-47.1)
Female	19.6	(18.2-21.2)	23.5	(22.1-25.0)	56.8	(55.0-58.6)
<b>Race/Ethnicity</b>						
White non-Hispanic	22.8	(21.4-24.3)	27.7	(26.5-29.1)	49.4	(47.9-51.0)
Black non-Hispanic	27.1	(23.3-31.3)	16.6	(14.1-19.3)	56.3	(52.1-60.5)
Other non-Hispanic	24.5	(19.0-31.0)	19.5	(13.9-26.7)	56.0	(48.6-63.1)
Hispanic	20.0	(14.0-27.6)	20.8	(14.7-28.6)	59.3	(50.7-67.3)
<b>Education</b>						
Less than high school	43.2	(37.9-48.8)	22.1	(18.4-26.4)	34.6	(29.7-39.8)
High school graduate	27.4	(25.1-29.7)	26.6	(24.6-28.8)	46.0	(43.5-48.5)
Some college	22.1	(20.1-24.2)	26.3	(24.3-28.4)	51.6	(49.1-54.1)
College graduate	8.8	(7.6-10.1)	25.4	(23.6-27.2)	65.9	(63.8-67.9)
<b>Household Income</b>						
< \$20,000	35.3	(31.8-38.8)	20.1	(17.6-22.7)	44.7	(41.2-48.2)
\$20,000 - \$34,999	26.4	(23.6-29.4)	27.6	(25.1-30.2)	46.1	(43.0-49.2)
\$35,000 - \$49,999	21.5	(18.5-24.8)	30.0	(26.9-33.3)	48.5	(44.8-52.2)
\$50,000 - \$74,999	18.5	(15.6-21.7)	31.1	(27.9-34.4)	50.5	(46.8-54.1)
\$75,000 +	13.2	(11.1-15.8)	25.4	(23.0-27.9)	61.4	(58.4-64.3)

<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 = 11,002)

<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 = 11,002)

<b>Table 14: Current Smokers Who Attempted to Quit 2011 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>62.4</b>	<b>(59.2-65.5)</b>
<b>Age</b>		
18 – 24	67.3	(56.7-76.3)
25 – 34	67.1	(59.4-74.0)
35 – 44	61.9	(54.4-69.0)
45 – 54	61.7	(55.5-67.6)
55 – 64	57.5	(50.5-64.2)
65 – 74	56.6	(47.5-65.3)
75 +	38.4	(23.6-55.6)
<b>Gender</b>		
Male	61.8	(57.2-66.2)
Female	63.3	(58.9-67.5)
<b>Race/Ethnicity</b>		
White non-Hispanic	59.7	(56.0-63.3)
Black non-Hispanic	74.1	(66.1-80.8)
Other non-Hispanic	66.6	(52.9-77.9)
Hispanic	67.4	(46.5-83.1)
<b>Education</b>		
Less than high school	64.0	(55.0-72.1)
High school graduate	57.6	(52.7-62.4)
Some college	67.0	(62.0-71.6)
College graduate	62.0	(54.6-68.9)
<b>Household Income</b>		
< \$20,000	68.1	(61.8-73.8)
\$20,000 - \$34,999	60.7	(54.1-66.9)
\$35,000 - \$49,999	52.0	(43.6-60.4)
\$50,000 - \$74,999	59.8	(50.3-68.6)
\$75,000 +	64.7	(55.2-73.2)

<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 = 1,996)

<b>Table 15: Smokeless Tobacco Use 2011 Michigan BRFSS</b>		
	<b>Current Smokeless Tobacco Use<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>4.4</b>	<b>(3.8-5.1)</b>
<b>Age</b>		
18 – 24	5.9	(4.0-8.7)
25 – 34	6.8	(4.9-9.2)
35 – 44	6.4	(4.7-8.6)
45 – 54	4.4	(3.1-6.1)
55 – 64	2.4	(1.5-3.9)
65 – 74	1.6	(1.0-2.6)
75 +	1.1	(0.5-2.6)
<b>Gender</b>		
Male	7.8	(6.6-9.1)
Female	1.3	(0.9-1.8)
<b>Race/Ethnicity</b>		
White non-Hispanic	4.7	(4.0-5.5)
Black non-Hispanic	3.4	(1.9-5.9)
Other non-Hispanic	3.1	(1.6-6.0)
Hispanic	3.0	(1.1-7.7)
<b>Education</b>		
Less than high school	5.5	(3.4-8.6)
High school graduate	6.3	(5.0-7.9)
Some college	3.9	(3.0-5.1)
College graduate	2.1	(1.6-2.9)
<b>Household Income</b>		
< \$20,000	3.3	(2.3-4.7)
\$20,000 - \$34,999	4.8	(3.5-6.6)
\$35,000 - \$49,999	5.6	(4.0-7.8)
\$50,000 - \$74,999	5.4	(3.8-7.8)
\$75,000 +	3.4	(2.3-4.9)

<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 = 11,042)

<b>Table 16: Alcohol Consumption 2011 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>7.0</b>	<b>(6.3-7.9)</b>	<b>19.7</b>	<b>(18.5-20.9)</b>
<b>Age</b>				
18 – 24	10.4	(7.6-14.0)	30.8	(26.2-35.8)
25 – 34	7.1	(5.1-9.8)	30.6	(26.9-34.6)
35 – 44	7.1	(5.4-9.3)	21.3	(18.4-24.5)
45 – 54	8.4	(6.9-10.3)	20.5	(18.1-23.1)
55 – 64	6.8	(5.5-8.3)	13.9	(12.1-15.9)
65 – 74	4.4	(3.3-5.9)	7.4	(5.8-9.3)
75 +	2.3	(1.4-3.7)	4.0	(2.5-6.3)
<b>Gender</b>				
Male	8.7	(7.5-10.1)	27.3	(25.3-29.3)
Female	5.5	(4.7-6.4)	12.7	(11.4-14.0)
<b>Race/Ethnicity</b>				
White non-Hispanic	7.6	(6.8-8.5)	20.4	(19.1-21.8)
Black non-Hispanic	3.8	(2.4-5.9)	15.6	(12.4-19.4)
Other non-Hispanic	8.5	(4.5-15.4)	20.5	(14.8-27.7)
Hispanic	5.7	(3.0-10.5)	21.6	(15.4-29.3)
<b>Education</b>				
Less than high school	6.1	(3.8-9.6)	17.6	(13.4-22.6)
High school graduate	7.9	(6.6-9.6)	20.3	(18.2-22.5)
Some college	6.9	(5.7-8.3)	20.2	(18.2-22.4)
College graduate	6.6	(5.6-7.8)	19.4	(17.7-21.3)
<b>Household Income</b>				
< \$20,000	7.2	(5.3-9.9)	19.4	(16.5-22.8)
\$20,000 - \$34,999	6.0	(4.7-7.7)	18.4	(15.9-21.2)
\$35,000 - \$49,999	6.1	(4.6-8.0)	17.3	(14.7-20.3)
\$50,000 - \$74,999	6.2	(4.7-8.3)	21.2	(18.3-24.4)
\$75,000 +	10.3	(8.5-12.4)	24.6	(22.0-27.4)
<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 = 10,584) <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 = 10,587)				

<b>Table 17: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers 2011 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>4.5</b>	<b>(4.1-4.9)</b>
<b>Age</b>		
18 – 24	4.3	(3.5-5.1)
25 – 34	4.0	(3.2-4.8)
35 – 44	4.8	(3.7-6.0)
45 – 54	4.3	(3.5-5.1)
55 – 64	4.9	(3.7-6.1)
65 – 74	5.5	(3.8-7.3)
75+	5.4	(2.0-8.8)
<b>Gender</b>		
Male	4.9	(4.4-5.4)
Female	3.6	(3.1-4.2)
<b>Race/Ethnicity</b>		
White non-Hispanic	4.4	(4.0-4.9)
Black non-Hispanic	4.5	(2.9-6.2)
Other non-Hispanic	4.1	(2.9-5.2)
Hispanic	5.5	(2.8-8.2)
<b>Education</b>		
Less than high school	5.7	(3.7-7.7)
High school graduate	5.3	(4.5-6.0)
Some college	4.2	(3.6-4.7)
College graduate	3.3	(2.9-3.7)
<b>Household Income</b>		
< \$20,000	5.5	(4.3-6.7)
\$20,000 - \$34,999	4.1	(3.2-5.0)
\$35,000 - \$49,999	3.7	(3.0-4.3)
\$50,000 - \$74,999	4.7	(3.6-5.8)
\$75,000 +	4.4	(3.6-5.1)
<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 = 1,636)		

<b>Table 18: Seatbelt Use 2011 Michigan BRFSS</b>		
	<b>Always Uses a Seatbelt<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>88.7</b>	<b>(87.7-89.7)</b>
<b>Age</b>		
18 – 24	79.0	(74.3-83.0)
25 – 34	85.5	(82.1-88.3)
35 – 44	89.9	(87.3-92.0)
45 – 54	90.7	(88.7-92.4)
55 – 64	92.2	(90.5-93.6)
65 – 74	92.2	(90.3-93.7)
75 +	91.7	(89.0-93.8)
<b>Gender</b>		
Male	84.7	(82.9-86.4)
Female	92.5	(91.5-93.5)
<b>Race/Ethnicity</b>		
White non-Hispanic	89.0	(87.9-90.1)
Black non-Hispanic	86.6	(83.1-89.4)
Other non-Hispanic	88.6	(84.2-91.9)
Hispanic	89.8	(83.1-94.1)
<b>Education</b>		
Less than high school	82.6	(77.3-86.8)
High school graduate	87.7	(85.8-89.4)
Some college	89.8	(88.2-91.2)
College graduate	91.9	(90.5-93.1)
<b>Household Income</b>		
< \$20,000	85.7	(82.6-88.3)
\$20,000 - \$34,999	87.8	(85.4-89.9)
\$35,000 - \$49,999	89.5	(86.9-91.7)
\$50,000 - \$74,999	88.5	(85.8-90.8)
\$75,000 +	92.7	(91.0-94.2)
<sup>a</sup> Among all adults, the proportion who reported always using a seatbelt when driving or riding in a car. (N = 10,701)		

<b>Table 19: Hypertension Awareness and Medication Use 2011 Michigan BRFS</b>				
<b>Demographic Characteristics</b>	<b>Ever Told HBP<sup>a</sup></b>		<b>Taking BP Medication<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>34.2</b>	<b>(32.9-35.4)</b>	<b>76.5</b>	<b>(74.4-78.5)</b>
<b>Age</b>				
18 – 24	7.1	(5.0-10.2)	-- <sup>c</sup>	---
25 – 34	15.9	(13.2-19.1)	36.0	(27.1-45.9)
35 – 44	21.6	(18.7-24.8)	52.9	(44.8-60.9)
45 – 54	36.3	(33.4-39.3)	72.6	(67.6-77.1)
55 – 64	50.3	(47.5-53.0)	86.7	(83.9-89.0)
65 – 74	61.7	(58.5-64.8)	90.6	(87.5-92.9)
75 +	67.7	(64.3-71.0)	94.8	(92.5-96.4)
<b>Gender</b>				
Male	35.8	(33.9-37.8)	70.6	(67.4-73.7)
Female	32.6	(31.0-34.3)	82.6	(80.0-84.9)
<b>Race/Ethnicity</b>				
White non-Hispanic	33.9	(32.6-35.4)	77.5	(75.2-79.6)
Black non-Hispanic	41.0	(37.0-45.1)	74.6	(68.4-80.0)
Other non-Hispanic	24.4	(19.5-30.1)	73.8	(59.4-84.4)
Hispanic	26.4	(19.7-34.3)	66.0	(49.7-79.2)
<b>Education</b>				
Less than high school	38.4	(33.6-43.4)	79.7	(72.4-85.5)
High school graduate	36.6	(34.4-39.0)	76.1	(72.3-79.6)
Some college	34.6	(32.4-36.9)	76.8	(73.2-80.1)
College graduate	27.8	(26.0-29.6)	74.1	(70.3-77.6)
<b>Household Income</b>				
< \$20,000	40.9	(37.5-44.3)	77.3	(72.4-81.6)
\$20,000 - \$34,999	38.5	(35.7-41.4)	79.6	(75.4-83.2)
\$35,000 - \$49,999	34.6	(31.4-38.0)	76.6	(71.0-81.4)
\$50,000 - \$74,999	33.7	(30.4-37.1)	73.1	(67.0-78.4)
\$75,000 +	26.1	(23.7-28.7)	76.3	(71.0-80.9)
<sup>a</sup> Among all adults, the proportion who reported that they were ever told by a doctor that they had high blood pressure (HBP). Women who had HBP only during pregnancy and adults who were borderline hypertensive were considered to not have been diagnosed. (N = 11,014) <sup>b</sup> Among adults who were ever told that they had HBP, the proportion that reported they were currently taking blood pressure (BP) medicines for their HBP. (N = 4,656) <sup>c</sup> The denominator for this subgroup was less than 50.				

**Table 20: Cholesterol Screening and Awareness  
2011 Michigan BRFSS**

Demographic Characteristics	Cholesterol Ever Checked <sup>a</sup>		Checked Within Past Five Years <sup>b</sup>		Ever Told High Cholesterol <sup>c</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>81.1</b>	<b>(79.7-82.4)</b>	<b>76.7</b>	<b>(75.3-78.1)</b>	<b>41.8</b>	<b>(40.4-43.3)</b>
<b>Age</b>						
18 – 24	43.6	(38.4-48.9)	38.9	(33.9-44.2)	11.8	(7.3-18.6)
25 – 34	64.4	(60.3-68.3)	59.5	(55.4-63.6)	17.7	(14.2-21.7)
35 – 44	81.6	(78.4-84.5)	74.2	(70.6-77.4)	30.9	(27.2-34.8)
45 – 54	90.3	(88.1-92.1)	85.0	(82.5-87.2)	43.3	(40.2-46.5)
55 – 64	95.2	(93.7-96.3)	92.4	(90.7-93.8)	55.4	(52.6-58.1)
65 – 74	97.5	(96.0-98.5)	95.3	(93.4-96.6)	62.9	(59.8-65.9)
75 +	97.3	(95.9-98.2)	95.4	(93.4-96.8)	55.0	(51.2-58.7)
<b>Gender</b>						
Male	77.6	(75.4-79.6)	72.7	(70.5-74.8)	44.4	(42.2-46.7)
Female	84.4	(82.7-86.0)	80.5	(78.8-82.2)	39.5	(37.7-41.4)
<b>Race/Ethnicity</b>						
White non-Hispanic	82.7	(81.2-84.1)	78.0	(76.5-79.5)	43.4	(41.8-45.0)
Black non-Hispanic	77.9	(73.8-81.5)	75.5	(71.3-79.2)	35.4	(31.3-39.8)
Other non-Hispanic	70.5	(62.1-77.8)	65.8	(57.6-73.2)	33.5	(27.4-40.3)
Hispanic	69.2	(60.3-76.8)	64.6	(55.7-72.6)	38.7	(29.6-48.7)
<b>Education</b>						
Less than high school	70.2	(64.4-75.4)	65.4	(59.6-70.8)	52.3	(46.2-58.3)
High school graduate	78.8	(76.3-81.1)	74.1	(71.6-76.6)	44.3	(41.8-46.9)
Some college	81.5	(79.3-83.6)	77.5	(75.2-79.7)	41.3	(38.7-44.0)
College graduate	89.4	(87.8-90.8)	85.0	(83.2-86.7)	35.1	(33.0-37.2)
<b>Household Income</b>						
< \$20,000	72.0	(68.3-75.5)	67.0	(63.2-70.5)	48.0	(44.2-51.8)
\$20,000 - \$34,999	78.2	(75.1-81.0)	74.1	(71.0-77.0)	43.7	(40.5-47.0)
\$35,000 - \$49,999	83.8	(80.4-86.7)	79.4	(75.8-82.5)	44.5	(40.8-48.4)
\$50,000 - \$74,999	88.4	(85.2-91.0)	83.5	(80.0-86.5)	41.4	(37.8-45.1)
\$75,000 +	89.5	(87.2-91.4)	85.3	(82.7-87.5)	36.0	(33.1-39.0)

<sup>a</sup> Among all adults, the proportion who reported ever having had their blood cholesterol checked. (N = 10,875)

<sup>b</sup> Among all adults, the proportion who reported that they have had their blood cholesterol checked within the past five years. (N = 10,742)

<sup>c</sup> Among adults who ever had their blood cholesterol checked, the proportion who reported that a doctor, nurse, or other health professional had told them that their cholesterol was high. (N = 9,622)

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<b>Table 21: No Routine Checkup in Past Year 2011 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>(32.2-34.9)</b>
<b>Age</b>		
18 - 24	39.7	(34.7-44.8)
25 - 34	46.2	(42.2-50.3)
35 - 44	43.6	(40.0-47.4)
45 - 54	35.3	(32.4-38.3)
55 - 64	24.7	(22.4-27.2)
65 - 74	16.7	(14.4-19.3)
75 +	12.9	(10.6-15.6)
<b>Gender</b>		
Male	38.7	(36.5-40.8)
Female	28.7	(27.0-30.4)
<b>Race/Ethnicity</b>		
White non-Hispanic	34.4	(32.8-35.9)
Black non-Hispanic	24.8	(21.2-28.8)
Other non-Hispanic	40.4	(33.3-47.9)
Hispanic	39.8	(31.6-48.6)
<b>Education</b>		
Less than high school	38.4	(33.2-44.0)
High school graduate	34.3	(31.9-36.8)
Some college	32.9	(30.6-35.3)
College graduate	30.6	(28.5-32.7)
<b>Household Income</b>		
< \$20,000	36.7	(33.2-40.3)
\$20,000 - \$34,999	37.7	(34.6-40.9)
\$35,000 - \$49,999	32.0	(28.6-35.7)
\$50,000 - \$74,999	31.0	(27.7-34.6)
\$75,000 +	31.9	(29.1-34.8)

<sup>a</sup> Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 10,935)

	<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>58.0</b>	<b>(55.5-60.4)</b>	<b>67.1</b>	<b>(64.7-69.4)</b>
<b>Age</b>				
65 - 74	54.7	(51.4-57.9)	61.3	(58.0-64.4)
75 +	62.0	(58.3-65.5)	74.0	(70.4-77.4)
<b>Gender</b>				
Male	56.4	(52.4-60.3)	63.2	(59.1-67.1)
Female	59.2	(56.1-62.1)	69.9	(67.0-72.7)
<b>Race/Ethnicity</b>				
White non-Hispanic	58.3	(55.7-60.9)	68.4	(65.8-70.9)
Black non-Hispanic	47.0	(39.2-55.0)	56.2	(48.1-64.0)
Other non-Hispanic	68.7	(56.3-78.9)	64.1	(50.8-75.6)
Hispanic	-- <sup>c</sup>	---	-- <sup>c</sup>	---
<b>Education</b>				
Less than high school	56.1	(48.4-63.5)	63.6	(55.7-70.7)
High school graduate	55.8	(52.0-59.6)	67.6	(63.9-71.2)
Some college	59.4	(54.9-63.8)	68.0	(63.5-72.1)
College graduate	61.9	(57.9-65.7)	68.5	(64.6-72.1)
<b>Household Income</b>				
< \$20,000	50.7	(44.4-57.0)	65.8	(59.5-71.6)
\$20,000 - \$34,999	55.0	(50.5-59.5)	67.5	(63.0-71.6)
\$35,000 - \$49,999	63.6	(57.7-69.1)	70.0	(63.9-75.5)
\$50,000 - \$74,999	59.4	(52.2-66.1)	65.2	(58.2-71.7)
\$75,000 +	64.1	(56.7-70.9)	68.9	(61.5-75.5)
<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 = 3,449)				
<sup>b</sup> Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 3,357)				
<sup>c</sup> The denominator for this subgroup was less than 50.				

<b>Table 23: HIV Testing among Adults Aged 18 - 64 Years 2011 Michigan BRFSS</b>		
	<b>Ever Had an HIV Test<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>41.3</b>	<b>(39.6-43.0)</b>
<b>Age</b>		
18 – 24	30.1	(25.6-35.0)
25 – 34	56.4	(52.2-60.4)
35 – 44	55.5	(51.6-59.2)
45 – 54	39.2	(36.2-42.3)
55 – 64	23.0	(20.7-25.5)
<b>Gender</b>		
Male	37.8	(35.4-40.3)
Female	44.8	(42.5-47.0)
<b>Race/Ethnicity</b>		
White non-Hispanic	36.5	(34.7-38.3)
Black non-Hispanic	64.6	(59.7-69.2)
Other non-Hispanic	42.5	(34.6-50.7)
Hispanic	51.8	(42.5-61.0)
<b>Education</b>		
Less than high school	42.9	(35.9-50.2)
High school graduate	36.4	(33.5-39.4)
Some college	44.2	(41.4-47.1)
College graduate	42.6	(40.1-45.1)
<b>Household Income</b>		
< \$20,000	51.1	(46.8-55.3)
\$20,000 - \$34,999	44.4	(40.4-48.4)
\$35,000 - \$49,999	41.2	(36.9-45.6)
\$50,000 - \$74,999	40.2	(36.2-44.3)
\$75,000 +	39.0	(35.9-42.2)
<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 = 6,992)		

<b>Table 24: Asthma among Adults 2011 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>14.8</b>	<b>(13.8-15.9)</b>	<b>9.9</b>	<b>(9.1-10.8)</b>
<b>Age</b>				
18 - 24	17.9	(14.4-22.0)	10.1	(7.5-13.6)
25 - 34	16.8	(14.0-20.0)	10.5	(8.2-13.2)
35 - 44	14.5	(12.0-17.3)	9.7	(7.7-12.1)
45 - 54	14.6	(12.4-17.0)	10.3	(8.5-12.5)
55 - 64	13.8	(12.0-15.8)	10.1	(8.5-11.9)
65 - 74	14.4	(12.2-16.9)	10.5	(8.6-12.7)
75 +	10.0	(8.0-12.6)	6.7	(4.9-9.1)
<b>Gender</b>				
Male	12.7	(11.4-14.3)	7.6	(6.5-8.8)
Female	16.8	(15.4-18.2)	12.1	(10.9-13.4)
<b>Race/Ethnicity</b>				
White non-Hispanic	14.2	(13.1-15.3)	9.4	(8.5-10.4)
Black non-Hispanic	17.5	(14.5-20.9)	12.2	(9.7-15.2)
Other non-Hispanic	17.6	(12.4-24.2)	11.2	(7.1-17.2)
Hispanic	15.2	(10.0-22.5)	10.7	(6.3-17.5)
<b>Education</b>				
Less than high school	18.1	(14.4-22.5)	15.2	(11.8-19.5)
High school graduate	14.1	(12.4-15.9)	9.4	(8.1-10.9)
Some college	14.9	(13.2-16.8)	9.4	(8.1-11.0)
College graduate	13.8	(12.2-15.4)	8.3	(7.2-9.5)
<b>Household Income</b>				
< \$20,000	19.2	(16.6-22.1)	14.5	(12.2-17.1)
\$20,000 - \$34,999	14.2	(12.2-16.5)	9.4	(7.7-11.3)
\$35,000 - \$49,999	13.8	(11.5-16.5)	8.7	(6.8-11.1)
\$50,000 - \$74,999	12.5	(10.2-15.2)	8.4	(6.6-10.8)
\$75,000 +	12.6	(10.7-14.9)	7.6	(6.1-9.4)
<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 = 11,012)				
<sup>b</sup> Among all adults, the proportion who reported that they still had asthma. (N = 10,978)				

<b>Table 25: Asthma among Children 2011 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>14.5</b>	<b>(12.9-16.3)</b>	<b>10.0</b>	<b>(8.6-11.6)</b>
<b>Age</b>				
0 - 4	7.4	(5.2-10.5)	4.8	(3.1-7.3)
5 - 9	14.6	(11.3-18.6)	10.8	(8.1-14.3)
10 - 14	20.1	(16.4-24.3)	14.2	(10.9-18.3)
15 - 17	17.3	(13.9-21.3)	10.4	(7.9-13.6)
<b>Gender</b>				
Boy	15.8	(13.4-18.5)	9.8	(7.9-12.1)
Girl	13.1	(11.0-15.5)	10.2	(8.3-12.5)
<b>Race/Ethnicity</b>				
White non-Hispanic	13.1	(11.3-15.0)	8.7	(7.3-10.4)
Black non-Hispanic	19.7	(14.7-25.9)	14.4	(10.1-20.0)
Other non-Hispanic	17.8	(11.9-26.0)	12.2	(7.3-19.8)
Hispanic	12.2	(7.2-19.7)	9.2	(4.8-16.7)
<b>Respondent Education</b>				
Less than high school	18.9	(12.9-26.8)	8.2	(4.7-13.9)
High school graduate	13.0	(10.0-16.8)	10.7	(7.9-14.3)
Some college	16.2	(13.0-20.0)	10.8	(8.1-14.2)
College graduate	13.6	(11.2-16.3)	9.3	(7.4-11.6)
<b>Household Income</b>				
< \$20,000	18.6	(13.9-24.4)	14.2	(10.1-19.5)
\$20,000 - \$34,999	14.4	(10.8-18.9)	10.1	(7.1-14.1)
\$35,000 - \$49,999	15.0	(10.5-21.0)	12.9	(8.6-18.8)
\$50,000 - \$74,999	11.9	(8.5-16.2)	7.3	(4.8-11.0)
\$75,000 +	14.2	(11.4-17.5)	8.3	(6.2-11.1)
<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 = 2,594). <sup>b</sup> Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 2,589)				

<b>Table 26: Chronic Obstructive Pulmonary Disease (COPD) 2011 Michigan BRFS</b>		
	<b>Ever Told COPD, Emphysema or Chronic Bronchitis<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>8.0</b>	<b>(7.3-8.7)</b>
<b>Age</b>		
18 - 24	2.3	(1.2-4.2)
25 - 34	3.6	(2.3-5.7)
35 - 44	5.2	(3.8-7.1)
45 - 54	9.0	(7.3-11.0)
55 - 64	11.1	(9.4-13.1)
65 - 75	14.8	(12.6-17.4)
75 +	14.2	(11.8-17.0)
<b>Gender</b>		
Male	6.8	(5.8-7.9)
Female	9.1	(8.1-10.2)
<b>Race/Ethnicity</b>		
White/Non-Hispanic	7.9	(7.2-8.8)
Black/Non-Hispanic	9.9	(7.6-12.7)
Other/Non-Hispanic	7.1	(4.9-10.1)
Hispanic	3.7	(1.9-7.4)
<b>Education</b>		
Less than high school	13.6	(10.6-17.2)
High school graduate	9.5	(8.3-10.9)
Some college	7.6	(6.5-8.9)
College graduate	3.5	(2.9-4.2)
<b>Household Income</b>		
< \$20,000	13.0	(11.0-15.2)
\$20,000 - \$34,999	10.2	(8.7-12.0)
\$35,000 - \$49,999	7.2	(5.6-9.2)
\$50,000 - \$74,999	6.1	(4.5-8.2)
\$75,000 +	3.2	(2.2-4.5)
<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 = 10,987)		

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<b>Table 27: Arthritis 2011 Michigan BRFSS</b>				
<b>Demographic Characteristics</b>	<b>Ever Told Arthritis<sup>a</sup></b>		<b>Usual Activities Now Limited<sup>b</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>31.0</b>	<b>(29.8-32.2)</b>	<b>50.6</b>	<b>(48.3-52.9)</b>
<b>Age</b>				
18 - 24	4.2	(2.7-6.5)	40.5	(21.8-62.4)
25 - 34	12.0	(9.5-15.1)	56.9	(44.3-68.6)
35 - 44	20.8	(17.9-24.0)	52.8	(44.4-61.1)
45 - 54	32.0	(29.2-35.0)	52.9	(47.2-58.5)
55 - 64	47.2	(44.5-49.9)	49.9	(45.8-53.9)
65 - 75	57.0	(53.7-60.1)	48.6	(44.4-52.9)
75 +	63.8	(60.2-67.2)	48.7	(43.9-53.6)
<b>Gender</b>				
Male	27.3	(25.5-29.2)	48.6	(44.8-52.5)
Female	34.4	(32.8-36.1)	52.1	(49.3-54.9)
<b>Race/Ethnicity</b>				
White/Non-Hispanic	32.3	(30.9-33.7)	48.9	(46.4-51.5)
Black/Non-Hispanic	29.6	(26.1-33.3)	59.9	(53.1-66.4)
Other/Non-Hispanic	19.0	(15.2-23.6)	53.9	(43.2-64.2)
Hispanic	22.2	(15.9-30.1)	53.1	(35.4-70.1)
<b>Education</b>				
Less than high school	40.6	(35.6-45.8)	58.1	(50.6-65.3)
High school graduate	32.7	(30.6-34.9)	53.5	(49.7-57.2)
Some college	30.9	(28.8-33.1)	49.0	(44.9-53.0)
College graduate	23.6	(21.9-25.4)	41.8	(37.9-45.8)
<b>Household Income</b>				
< \$20,000	36.3	(33.1-39.6)	67.9	(63.1-72.3)
\$20,000 - \$34,999	36.4	(33.6-39.3)	55.2	(50.6-59.7)
\$35,000 - \$49,999	29.0	(26.0-32.2)	46.0	(40.0-52.1)
\$50,000 - \$74,999	30.2	(27.1-33.5)	36.9	(31.0-43.1)
\$75,000 +	21.8	(19.6-24.3)	40.0	(34.1-46.1)
<p><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 = 10,974)</p> <p><sup>b</sup> Among adults who reported ever being told by a health care professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia, the proportion who reported that their usual activities are now limited by their arthritis or joint symptoms. (N = 4,182)</p>				

**Table 28: Cardiovascular Disease  
2011 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>5.3</b>	<b>(4.8-5.9)</b>	<b>5.0</b>	<b>(4.4-5.5)</b>	<b>3.3</b>	<b>(2.9-3.8)</b>	<b>9.5</b>	<b>(8.8-10.3)</b>
<b>Age</b>								
18 - 34	0.3	(0.1-0.7)	0.1	(0.0-0.6)	0.3	(0.1-0.7)	0.6	(0.3-1.2)
35 - 44	1.3	(0.7-2.6)	1.4	(0.8-2.6)	1.4	(0.8-2.4)	3.1	(2.1-4.6)
45 - 54	4.5	(3.3-6.2)	3.6	(2.5-5.2)	2.5	(1.6-3.8)	7.8	(6.1-9.9)
55 - 64	8.6	(7.1-10.5)	8.9	(7.4-10.7)	5.3	(4.0-6.9)	15.7	(13.7-18.0)
65 - 74	12.4	(10.3-14.9)	10.9	(9.0-13.1)	6.7	(5.2-8.7)	21.1	(18.4-24.0)
75 +	17.9	(15.0-21.2)	17.6	(14.6-21.0)	11.5	(9.1-14.5)	32.1	(28.6-35.9)
<b>Gender</b>								
Male	6.4	(5.5-7.4)	5.8	(5.0-6.7)	3.1	(2.5-3.8)	10.4	(9.3-11.6)
Female	4.3	(3.7-5.1)	4.2	(3.6-4.9)	3.5	(2.9-4.2)	8.7	(7.8-9.7)
<b>Race/Ethnicity</b>								
White non-Hispanic	5.3	(4.7-5.9)	5.1	(4.5-5.7)	3.0	(2.5-3.5)	9.4	(8.6-10.3)
Black non-Hispanic	5.1	(3.7-7.1)	3.7	(2.5-5.3)	4.9	(3.4-7.1)	10.1	(8.0-12.7)
Other non-Hispanic	4.4	(2.6-7.1)	5.3	(3.4-8.4)	3.4	(2.1-5.4)	8.4	(5.9-11.7)
Hispanic	7.1	(3.5-14.0)	6.6	(3.0-13.9)	3.1	(1.2-7.9)	9.5	(5.3-16.5)
<b>Education</b>								
< High school	10.6	(8.0-13.8)	8.1	(5.9-10.9)	7.5	(5.4-10.4)	18.1	(14.8-22.0)
High school graduate	6.3	(5.4-7.3)	5.0	(4.2-5.9)	3.5	(2.8-4.4)	10.4	(9.2-11.8)
Some college	4.2	(3.4-5.2)	4.9	(4.0-6.0)	2.7	(2.1-3.5)	8.3	(7.2-9.6)
College graduate	2.8	(2.3-3.5)	3.4	(2.8-4.1)	1.5	(1.1-1.9)	5.5	(4.7-6.3)
<b>Household Income</b>								
< \$20,000	8.7	(7.1-10.7)	6.7	(5.4-8.4)	6.8	(5.3-8.7)	15.3	(13.1-17.7)
\$20,000 - \$34,999	7.1	(5.8-8.7)	6.9	(5.6-8.5)	4.7	(3.7-6.0)	13.2	(11.5-15.3)
\$35,000 - \$49,999	3.9	(2.9-5.3)	3.2	(2.4-4.5)	2.2	(1.5-3.2)	7.1	(5.7-8.8)
\$50,000 - \$74,999	3.4	(2.4-4.8)	3.8	(2.7-5.2)	1.1	(0.6-2.0)	6.0	(4.6-7.7)
\$75,000 +	2.4	(1.6-3.6)	3.6	(2.6-4.9)	1.2	(0.7-2.3)	5.1	(4.0-6.7)

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 = 10,997);

<sup>b</sup> they had angina or coronary heart disease (N = 10,963);

<sup>c</sup> they had a stroke. (N = 11,018)

<sup>d</sup> they had a heart attack, coronary heart disease or a stroke. (N = 10,947)

	Ever Told Skin Cancer <sup>a</sup>		Ever Told Any Other Types of Cancer <sup>b</sup>		Ever Told Cancer <sup>c</sup>	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Total</b>	<b>5.6</b>	<b>(5.1-6.1)</b>	<b>7.3</b>	<b>(6.7-7.9)</b>	<b>11.8</b>	<b>(11.1-12.6)</b>
<b>Age</b>						
18 - 34	0.6	(0.3-1.4)	1.8	(1.1-2.9)	2.3	(1.5-3.5)
35 - 44	0.7	(0.3-1.5)	3.2	(2.2-4.7)	3.9	(2.8-5.5)
45 - 54	3.7	(2.7-5.1)	4.7	(3.6-6.2)	8.3	(6.8-10.2)
55 - 64	8.1	(6.8-9.7)	10.5	(8.9-12.3)	17.6	(15.6-19.8)
65 - 74	14.1	(12.0-16.4)	16.3	(14.0-18.8)	27.7	(25.0-30.7)
75 +	22.0	(19.1-25.2)	23.7	(20.7-27.0)	38.9	(35.4-42.5)
<b>Gender</b>						
Male	5.5	(4.8-6.4)	5.7	(4.9-6.6)	10.3	(9.3-11.4)
Female	5.6	(4.9-6.4)	8.8	(7.9-9.8)	13.3	(12.2-14.5)
<b>Race/Ethnicity</b>						
White non-Hispanic	6.7	(6.1-7.4)	8.1	(7.4-8.8)	13.6	(12.7-14.5)
Black non-Hispanic	0.6	(0.1-2.2)	4.6	(3.5-6.0)	5.1	(3.8-6.8)
Other non-Hispanic	2.1	(1.1-3.9)	5.4	(2.8-10.2)	7.1	(4.2-11.8)
Hispanic	2.8	(0.8-8.9)	3.7	(1.6-8.4)	5.1	(2.4-10.4)
<b>Education</b>						
Less than high school	6.2	(4.3-8.8)	9.6	(7.2-12.8)	14.5	(11.4-18.2)
High school graduate	6.0	(5.1-7.0)	7.5	(6.5-8.6)	12.4	(11.1-13.8)
Some college	4.7	(4.0-5.6)	7.2	(6.2-8.4)	11.0	(9.8-12.3)
College graduate	6.0	(5.2-6.9)	6.0	(5.2-6.9)	11.0	(9.9-12.2)
<b>Household Income</b>						
< \$20,000	3.8	(2.8-5.1)	8.2	(6.7-9.9)	11.0	(9.3-13.0)
\$20,000 - \$34,999	7.0	(5.9-8.4)	7.9	(6.6-9.3)	13.7	(12.0-15.6)
\$35,000 - \$49,999	6.2	(5.0-7.8)	8.4	(6.7-10.5)	12.7	(10.7-15.0)
\$50,000 - \$74,999	5.9	(4.6-7.6)	6.2	(4.9-8.0)	11.5	(9.6-13.7)
\$75,000 +	5.2	(4.2-6.4)	5.1	(4.1-6.3)	9.8	(8.4-11.4)

<sup>a</sup> Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 11,023)  
<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 = 11,020)  
<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 = 11,008)

<b>Table 30: Diabetes 2011 Michigan BRFSS</b>		
	<b>Ever Told Diabetes<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>10.0</b>	<b>(9.3-10.7)</b>
<b>Age</b>		
18 – 24	0.2	(0.1-0.8)
25 – 34	2.5	(1.6-4.1)
35 – 44	6.3	(4.6-8.6)
45 – 54	8.9	(7.3-10.7)
55 – 64	17.2	(15.2-19.3)
65 – 74	21.5	(18.9-24.3)
75 +	21.1	(18.3-24.3)
<b>Gender</b>		
Male	10.2	(9.1-11.3)
Female	9.7	(8.8-10.8)
<b>Race/Ethnicity</b>		
White non-Hispanic	9.5	(8.7-10.3)
Black non-Hispanic	12.7	(10.5-15.2)
Other non-Hispanic	9.4	(6.8-12.8)
Hispanic	12.5	(8.2-18.6)
<b>Education</b>		
Less than high school	11.5	(9.1-14.5)
High school graduate	11.5	(10.3-12.9)
Some college	10.1	(8.8-11.5)
College graduate	6.7	(5.8-7.8)
<b>Household Income</b>		
< \$20,000	12.1	(10.4-14.1)
\$20,000 - \$34,999	12.3	(10.6-14.2)
\$35,000 - \$49,999	9.2	(7.6-11.2)
\$50,000 - \$74,999	8.6	(6.8-10.9)
\$75,000 +	7.0	(5.6-8.6)
<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 = 11,032)		

<b>Table 31: Kidney Disease 2011 Michigan BRFSS</b>		
	<b>Ever Told Kidney Disease<sup>a</sup></b>	
	<b>%</b>	<b>95% Confidence Interval</b>
<b>Total</b>	<b>3.0</b>	<b>(2.6-3.5)</b>
<b>Age</b>		
18 – 24	2.0	(1.1-3.6)
25 – 34	2.1	(1.1-4.0)
35 – 44	1.5	(0.9-2.4)
45 – 54	2.5	(1.8-3.5)
55 – 64	4.0	(3.0-5.3)
65 – 74	4.8	(3.6-6.3)
75 +	6.9	(5.4-8.9)
<b>Gender</b>		
Male	2.4	(1.9-3.1)
Female	3.7	(3.1-4.3)
<b>Race/Ethnicity</b>		
White non-Hispanic	3.0	(2.6-3.5)
Black non-Hispanic	3.3	(2.3-4.8)
Other non-Hispanic	2.7	(1.3-5.2)
Hispanic	3.2	(1.2-8.5)
<b>Education</b>		
Less than high school	3.4	(2.1-5.4)
High school graduate	3.4	(2.7-4.4)
Some college	2.8	(2.2-3.7)
College graduate	2.6	(2.1-3.3)
<b>Household Income</b>		
< \$20,000	4.5	(3.4-5.9)
\$20,000 - \$34,999	3.0	(2.3-4.0)
\$35,000 - \$49,999	2.6	(1.8-3.8)
\$50,000 - \$74,999	2.2	(1.4-3.5)
\$75,000 +	1.8	(1.2-2.7)
<sup>a</sup> Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease. (N = 11,003)		

<b>Table 32: Depression 2011 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>(19.5-21.8)</b>
<b>Age</b>		
18 – 24	19.4	(15.6-24.0)
25 – 34	21.2	(18.0-24.8)
35 – 44	22.4	(19.4-25.7)
45 – 54	23.7	(21.1-26.4)
55 – 64	22.9	(20.7-25.3)
65 – 74	16.4	(14.2-18.8)
75 +	11.4	(9.1-14.1)
<b>Gender</b>		
Male	15.4	(13.8-17.0)
Female	25.6	(24.0-27.3)
<b>Race/Ethnicity</b>		
White non-Hispanic	21.5	(20.2-22.8)
Black non-Hispanic	14.9	(12.2-18.0)
Other non-Hispanic	20.9	(15.4-27.7)
Hispanic	23.0	(16.2-31.5)
<b>Education</b>		
Less than high school	27.9	(23.2-33.1)
High school graduate	19.6	(17.7-21.6)
Some college	22.9	(20.8-25.0)
College graduate	14.9	(13.6-16.5)
<b>Household Income</b>		
< \$20,000	30.1	(27.0-33.4)
\$20,000 - \$34,999	23.1	(20.5-26.0)
\$35,000 - \$49,999	19.1	(16.5-22.1)
\$50,000 - \$74,999	16.3	(13.7-19.2)
\$75,000 +	15.1	(13.1-17.4)
<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 = 10,989)		

<b>Table 33: Visual Impairment 2011 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>19.2</b>	<b>(18.2-20.3)</b>
<b>Age</b>		
18 – 24	11.7	(8.9-15.2)
25 – 34	12.0	(9.7-14.8)
35 – 44	11.6	(9.5-14.1)
45 – 54	19.7	(17.3-22.3)
55 – 64	23.7	(21.5-26.2)
65 – 74	28.9	(26.1-31.8)
75 +	39.1	(35.5-42.7)
<b>Gender</b>		
Male	18.8	(17.3-20.5)
Female	19.6	(18.3-21.0)
<b>Race/Ethnicity</b>		
White non-Hispanic	19.2	(18.0-20.4)
Black non-Hispanic	17.8	(15.2-20.8)
Other non-Hispanic	18.2	(14.1-23.0)
Hispanic	24.2	(17.1-33.1)
<b>Education</b>		
Less than high school	21.5	(17.8-25.7)
High school graduate	20.2	(18.4-22.1)
Some college	20.0	(18.1-22.0)
College graduate	15.6	(14.2-17.1)
<b>Household Income</b>		
< \$20,000	24.4	(21.7-27.3)
\$20,000 - \$34,999	22.6	(20.2-25.1)
\$35,000 - \$49,999	20.3	(17.6-23.3)
\$50,000 - \$74,999	14.7	(12.4-17.3)
\$75,000 +	13.4	(11.6-15.5)
<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 = 10,880)		