

Prevalence Estimates for Risk Factors and Health Indicators

State of Michigan

Selected Tables

Michigan Behavioral Risk Factor Survey

2013

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Michigan Department of Community Health

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Introduction

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

In 2013, the total sample size of completed interviews for the core survey was 12,759 (land line = 8,762; cell phone = 3,997). Due to variability in response rates to individual questions and differences in specific sub-populations of interest for particular questions, not all estimates are based on a total sample size of 12,759. 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 2013 Michigan BRFSS, the sample of land line telephone numbers that were utilized for data collection was selected using a list-assisted, random-digit-dialed methodology with a disproportionate stratification based on phone bank density, and whether or not the phone numbers were directory listed. 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 2013 Michigan BRFSS data collection process was randomly selected from dedicated cellular telephone banks sorted on the basis of area code and exchange within the State of Michigan.

Iterative proportional fitting or raking was the weighting methodology used to make the 2013 Michigan BRFSS data representative of the current Michigan adult population. Estimates based on this methodology were weighted to adjust for the probabilities of selection and a raking adjustment factor that adjusted for the distribution of Michigan adults by telephone source (land line vs. cell phone), detailed race/ethnicity, education level, marital status, age by gender, gender by race/ethnicity, age by race/ethnicity, and renter/owner status.

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

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

Due to the BRFSS methodology changes that took place in 2011, the estimates provided within the following tables should only be compared to Michigan BRFSS estimates from 2011-2012 and not to Michigan BRFSS estimates from years prior to 2011.

If you have any questions regarding any of the estimates within the following tables, please contact Chris Fussman at MDCH, by phone, (517) 335-8144, or by email, MIBRFSS@michigan.gov.

Table 1: Health Status 2013 Michigan BRFSS		
	General Health, Fair or Poor^a	
	%	95% Confidence Interval
Total	17.7	(16.8-18.7)
Age		
18 – 24	9.2	(7.3-11.7)
25 – 34	10.2	(8.0-13.1)
35 – 44	14.9	(12.5-17.7)
45 – 54	19.8	(17.6-22.3)
55 – 64	24.2	(22.0-26.5)
65 – 74	22.1	(19.7-24.7)
75 +	25.7	(23.1-28.4)
Gender		
Male	17.3	(15.9-18.7)
Female	18.1	(16.9-19.4)
Race/Ethnicity		
White non-Hispanic	16.0	(15.0-16.9)
Black non-Hispanic	25.5	(22.0-29.3)
Other non-Hispanic	16.8	(13.2-21.1)
Hispanic	23.6	(17.7-30.7)
Education		
Less than high school	42.2	(37.4-47.1)
High school graduate	19.3	(17.8-20.9)
Some college	14.8	(13.5-16.3)
College graduate	7.5	(6.6-8.6)
Household Income		
< \$20,000	35.9	(32.9-39.0)
\$20,000 - \$34,999	23.0	(20.8-25.4)
\$35,000 - \$49,999	16.5	(14.0-19.3)
\$50,000 - \$74,999	10.4	(8.7-12.4)
\$75,000 +	5.5	(4.5-6.7)
^a Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 12,745)		

**Table 2: Health Status on at Least 14 Days in the Past Month
2013 Michigan BRFS**

	Poor Physical Health ^a		Poor Mental Health ^b		Activity Limitation ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	12.7	(12.0-13.6)	12.0	(11.2-12.8)	8.8	(8.1-9.5)
Age						
18 – 24	6.1	(4.5-8.2)	11.8	(9.6-14.5)	2.9	(1.9-4.3)
25 – 34	7.6	(5.6-10.2)	12.5	(10.3-15.2)	6.8	(5.0-9.2)
35 – 44	10.2	(8.3-12.4)	13.5	(11.3-16.1)	8.7	(6.8-11.0)
45 – 54	15.4	(13.5-17.6)	14.8	(12.9-17.0)	11.8	(10.0-13.7)
55 – 64	18.1	(16.2-20.2)	13.3	(11.6-15.3)	12.6	(11.0-14.5)
65 – 74	16.0	(13.8-18.5)	7.7	(6.1-9.5)	8.8	(7.2-10.7)
75 +	17.0	(14.8-19.5)	5.5	(4.2-7.2)	8.0	(6.6-9.8)
Gender						
Male	13.0	(11.7-14.3)	10.7	(9.5-12.0)	9.2	(8.1-10.3)
Female	12.5	(11.6-13.6)	13.2	(12.1-14.3)	8.5	(7.6-9.4)
Race/Ethnicity						
White non-Hispanic	11.8	(11.0-12.6)	11.5	(10.6-12.4)	7.9	(7.2-8.6)
Black non-Hispanic	16.7	(13.8-20.1)	15.8	(13.0-19.1)	12.9	(10.4-15.8)
Other non-Hispanic	12.9	(9.7-16.8)	8.6	(6.4-11.5)	9.5	(7.0-12.7)
Hispanic	15.3	(10.3-22.1)	13.0	(8.5-19.4)	10.5	(6.2-17.2)
Education						
Less than high school	24.4	(20.5-28.9)	24.3	(20.3-28.7)	19.7	(16.0-24.0)
High school graduate	14.8	(13.5-16.3)	12.4	(11.1-13.9)	9.5	(8.4-10.7)
Some college	11.5	(10.3-12.8)	11.4	(10.2-12.8)	7.8	(6.8-8.9)
College graduate	6.2	(5.4-7.1)	5.7	(4.9-6.6)	3.9	(3.2-4.7)
Household Income						
< \$20,000	29.7	(26.8-32.7)	25.3	(22.6-28.2)	23.0	(20.4-25.9)
\$20,000 - \$34,999	14.3	(12.5-16.3)	13.2	(11.4-15.3)	10.6	(9.0-12.6)
\$35,000 - \$49,999	10.5	(8.6-12.7)	11.1	(9.1-13.5)	6.2	(4.7-8.1)
\$50,000 - \$74,999	6.9	(5.6-8.4)	6.7	(5.3-8.5)	4.2	(3.2-5.4)
\$75,000 +	4.9	(4.0-6.1)	5.1	(4.1-6.3)	2.6	(1.9-3.4)

^a Among all adults, the proportion who reported 14 or more days of poor physical health, which includes physical illness and injury, during the past 30 days. (N = 12,585)

^b Among all adults, the proportion who reported 14 or more days of poor mental health, which includes stress, depression, and problems with emotions, during the past 30 days. (N = 12,601)

^c Among all adults, the proportion who reported 14 or more days in the past 30 days in which either poor physical health or poor mental health kept respondents from doing their usual activities, such as self-care, work, and recreation. (N = 12,657)

**Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations
2013 Michigan BRFSS**

	Poor Physical Health ^a		Poor Mental Health ^b		Activity Limitation ^c	
	Mean # of Days	95% Confidence Interval	Mean # of Days	95% Confidence Interval	Mean # of Days	95% Confidence Interval
Total	4.1	(3.9-4.3)	3.9	(3.7-4.1)	2.7	(2.5-2.9)
Age						
18 - 24	2.4	(1.9-2.8)	4.5	(3.9-5.0)	1.1	(0.9-1.4)
25 - 34	2.8	(2.2-3.4)	4.3	(3.6-4.9)	2.2	(1.6-2.7)
35 - 44	3.3	(2.8-3.8)	4.4	(3.7-5.0)	2.6	(2.1-3.1)
45 - 54	4.7	(4.2-5.2)	4.5	(4.0-5.0)	3.5	(3.0-3.9)
55 - 64	5.6	(5.1-6.1)	4.2	(3.7-4.7)	3.7	(3.3-4.2)
65 - 74	4.9	(4.4-5.5)	2.5	(2.1-3.0)	2.8	(2.3-3.2)
75 +	5.4	(4.8-6.0)	1.8	(1.4-2.2)	2.5	(2.1-2.9)
Gender						
Male	4.1	(3.7-4.4)	3.5	(3.2-3.8)	2.8	(2.5-3.0)
Female	4.1	(3.9-4.4)	4.3	(4.0-4.6)	2.6	(2.4-2.9)
Race/Ethnicity						
White non-Hispanic	3.8	(3.6-4.1)	3.8	(3.6-4.0)	2.5	(2.3-2.6)
Black non-Hispanic	5.1	(4.3-5.9)	4.8	(4.0-5.6)	3.7	(3.1-4.4)
Other non-Hispanic	4.0	(3.1-4.9)	3.0	(2.3-3.7)	3.0	(2.2-3.8)
Hispanic	4.9	(3.4-6.4)	3.9	(2.6-5.2)	3.0	(1.7-4.4)
Education						
Less than high school	7.3	(6.3-8.4)	7.1	(6.0-8.2)	5.6	(4.6-6.6)
High school graduate	4.6	(4.2-4.9)	4.0	(3.6-4.4)	2.8	(2.5-3.0)
Some college	3.8	(3.5-4.1)	3.8	(3.5-4.1)	2.5	(2.2-2.7)
College graduate	2.3	(2.1-2.6)	2.3	(2.1-2.5)	1.5	(1.3-1.7)
Household Income						
< \$20,000	8.5	(7.8-9.3)	7.4	(6.7-8.1)	6.4	(5.7-7.1)
\$20,000 - \$34,999	4.6	(4.1-5.1)	4.2	(3.7-4.7)	3.2	(2.8-3.7)
\$35,000 - \$49,999	3.6	(3.1-4.1)	3.6	(3.0-4.1)	2.1	(1.7-2.5)
\$50,000 - \$74,999	2.5	(2.2-2.8)	2.6	(2.3-3.0)	1.4	(1.2-1.7)
\$75,000 +	1.9	(1.7-2.2)	2.1	(1.9-2.4)	1.0	(0.8-1.2)

^a Among all adults, the mean number of days during the past 30 days in which physical health, including illness and injury, was not good. (N = 12,585)

^b Among all adults, the mean number of days during the past 30 days in which mental health, including stress, depression, and problems with emotions, was not good. (N = 12,601)

^c Among all adults, the mean number of days during the past 30 days in which poor physical health or poor mental health kept the respondent from doing usual activities, such as self-care, work, or recreation. (N = 12,657)

Table 4: Disability 2013 Michigan BRFSS						
	Total Disability^a		Any Activity Limitation^b		Used Special Equipment^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	25.5	(24.5-26.6)	23.0	(22.0-24.1)	9.6	(9.0-10.3)
Age						
18 - 24	11.2	(8.9-14.0)	10.4	(8.3-13.1)	-- ^d	-- ^d
25 - 34	15.1	(12.3-18.4)	14.3	(11.5-17.5)	3.2	(2.0-5.2)
35 - 44	20.5	(17.9-23.4)	19.0	(16.4-21.8)	6.1	(4.7-8.0)
45 - 54	26.5	(24.0-29.0)	24.5	(22.1-27.0)	9.7	(8.1-11.5)
55 - 64	35.1	(32.8-37.6)	33.0	(30.7-35.4)	12.7	(11.0-14.5)
65 - 74	34.4	(31.7-37.1)	29.9	(27.4-32.4)	15.7	(13.6-18.0)
75 +	42.5	(39.6-45.5)	34.0	(31.3-36.8)	25.9	(23.4-28.6)
Gender						
Male	25.8	(24.2-27.4)	23.1	(21.6-24.7)	9.5	(8.5-10.6)
Female	25.2	(23.9-26.6)	23.0	(21.7-24.3)	9.7	(8.8-10.6)
Race/Ethnicity						
White non-Hispanic	25.0	(23.9-26.1)	22.9	(21.8-24.0)	8.9	(8.2-9.6)
Black non-Hispanic	30.0	(26.3-34.0)	26.3	(22.8-30.2)	14.1	(11.5-17.2)
Other non-Hispanic	21.9	(17.8-26.6)	19.6	(15.8-24.1)	8.9	(6.5-12.0)
Hispanic	18.9	(13.5-26.0)	16.6	(11.4-23.6)	5.6	(3.3-9.3)
Education						
Less than high school	41.1	(36.2-46.1)	35.8	(31.1-40.7)	17.9	(14.6-21.8)
High school graduate	27.1	(25.4-28.8)	25.0	(23.3-26.7)	10.3	(9.3-11.4)
Some college	24.3	(22.7-26.1)	22.1	(20.5-23.8)	8.7	(7.7-9.8)
College graduate	17.2	(15.9-18.6)	15.4	(14.2-16.6)	5.8	(5.0-6.7)
Household Income						
< \$20,000	44.7	(41.5-47.9)	40.7	(37.6-43.9)	19.7	(17.4-22.2)
\$20,000 - \$34,999	30.3	(27.9-32.8)	26.9	(24.6-29.3)	13.0	(11.2-15.0)
\$35,000 - \$49,999	24.9	(22.1-27.9)	22.9	(20.2-25.9)	8.2	(6.8-9.9)
\$50,000 - \$74,999	18.4	(16.3-20.7)	16.6	(14.6-18.8)	5.1	(4.1-6.4)
\$75,000 +	12.2	(10.8-13.7)	10.7	(9.4-12.1)	3.2	(2.5-4.0)

^a 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 = 12,556)

^b Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems. (N = 12,563)

^c 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 = 12,595)

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

**Table 5: Weight Status
2013 Michigan BRFSS**

	Obese ^a		Overweight ^b		Healthy Weight ^c		Underweight ^d	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	31.5	(30.4-32.6)	34.7	(33.6-35.9)	32.5	(31.3-33.7)	1.3	(1.0-1.6)
Age								
18 - 24	16.5	(13.7-19.7)	26.7	(23.4-30.3)	54.1	(50.1-58.0)	2.7	(1.8-4.2)
25 - 34	30.4	(26.9-34.1)	33.1	(29.5-36.8)	35.1	(31.6-38.8)	-- ^e	-- ^e
35 - 44	33.6	(30.5-36.9)	32.4	(29.3-35.7)	32.9	(29.8-36.2)	1.0	(0.6-1.9)
45 - 54	37.3	(34.6-40.0)	35.4	(32.8-38.1)	26.1	(23.8-28.5)	1.2	(0.7-2.0)
55 - 64	37.7	(35.3-40.1)	37.1	(34.7-39.5)	24.7	(22.7-26.9)	-- ^e	-- ^e
65 - 74	35.5	(32.9-38.2)	39.9	(37.2-42.6)	23.7	(21.5-26.2)	0.9	(0.5-1.4)
75 +	22.2	(19.9-24.7)	41.9	(39.0-45.0)	34.4	(31.5-37.3)	1.5	(1.0-2.3)
Gender								
Male	31.1	(29.4-32.8)	40.1	(38.3-41.9)	27.9	(26.3-29.6)	0.9	(0.6-1.5)
Female	31.9	(30.4-33.5)	29.3	(27.9-30.8)	37.1	(35.6-38.8)	1.6	(1.3-2.1)
Race/Ethnicity								
White non-Hispanic	30.6	(29.4-31.8)	35.2	(34.0-36.5)	32.8	(31.6-34.1)	1.4	(1.1-1.8)
Black non-Hispanic	39.2	(35.2-43.4)	33.4	(29.6-37.5)	26.7	(23.1-30.7)	-- ^e	-- ^e
Other non-Hispanic	20.0	(16.0-24.7)	30.3	(24.9-36.3)	48.3	(42.2-54.4)	-- ^e	-- ^e
Hispanic	32.7	(26.1-40.0)	37.1	(30.0-44.8)	29.1	(22.6-36.7)	-- ^e	-- ^e
Education								
< High school	31.5	(27.0-36.4)	34.2	(29.5-39.2)	32.8	(28.2-37.9)	-- ^e	-- ^e
High school graduate	32.7	(30.8-34.6)	35.1	(33.1-37.1)	30.2	(28.3-32.2)	2.0	(1.4-2.8)
Some college	34.5	(32.6-36.6)	33.6	(31.6-35.6)	31.0	(29.0-33.0)	0.9	(0.6-1.4)
College graduate	25.4	(23.8-27.2)	36.4	(34.5-38.3)	37.4	(35.5-39.3)	0.7	(0.5-1.1)
Household Income								
< \$20,000	36.5	(33.4-39.7)	29.7	(26.9-32.8)	31.8	(28.9-34.9)	1.9	(1.3-3.0)
\$20,000 - \$34,999	35.2	(32.6-37.8)	34.0	(31.4-36.6)	29.5	(27.0-32.1)	1.4	(0.9-2.1)
\$35,000 - \$49,999	34.4	(31.2-37.7)	34.7	(31.5-37.9)	30.0	(27.0-33.1)	1.0	(0.5-1.9)
\$50,000 - \$74,999	31.0	(28.2-33.9)	37.4	(34.5-40.4)	30.7	(27.9-33.7)	-- ^e	-- ^e
\$75,000 +	27.8	(25.7-30.0)	37.2	(34.9-39.5)	34.1	(31.8-36.4)	1.0	(0.6-1.5)

Note: BMI, body mass index, is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)²]. Weight and height were self-reported. Pregnant women were excluded. (N = 12,177)

^a Among all adults, the proportion of respondents whose BMI was greater than or equal to 30.0.

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

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

^d Among all adults, the proportion of respondents whose BMI was less than 18.5.

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

**Table 6: Health Care Access
2013 Michigan BRFSS**

	No Health Care Coverage ^a (Among 18 - 64 year olds)		No Personal Health Care Provider ^b		No Health Care Access During Past 12 Months Due to Cost ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	17.4	(16.3-18.6)	17.0	(16.0-18.0)	15.5	(14.5-16.4)
Age						
18 - 24	22.1	(19.0-25.6)	32.4	(28.9-36.1)	13.5	(11.2-16.2)
25 - 34	24.8	(21.5-28.5)	32.3	(28.9-36.0)	24.1	(20.9-27.7)
35 - 44	18.0	(15.3-21.0)	21.2	(18.4-24.2)	18.2	(15.7-21.0)
45 - 54	15.0	(13.0-17.3)	12.7	(11.0-14.8)	18.9	(16.7-21.4)
55 - 64	9.5	(8.2-11.0)	8.3	(6.9-9.9)	13.6	(11.9-15.5)
65 - 74	---	---	3.0	(2.3-4.0)	7.6	(6.0-9.5)
75 +	---	---	3.3	(2.4-4.6)	4.4	(3.4-5.8)
Gender						
Male	21.0	(19.2-23.0)	22.9	(21.3-24.6)	15.1	(13.7-16.6)
Female	13.8	(12.5-15.3)	11.4	(10.3-12.6)	15.9	(14.6-17.1)
Race/Ethnicity						
White non-Hispanic	15.4	(14.2-16.6)	14.8	(13.9-15.9)	13.7	(12.7-14.7)
Black non-Hispanic	26.4	(22.4-30.9)	23.2	(19.7-27.0)	22.5	(19.2-26.3)
Other non-Hispanic	16.9	(12.7-22.3)	25.9	(20.7-32.0)	15.7	(11.9-20.5)
Hispanic	23.8	(17.5-31.5)	22.4	(16.8-29.2)	22.8	(17.0-29.9)
Education						
Less than high school	35.8	(29.9-42.0)	22.6	(18.5-27.4)	25.2	(21.0-30.0)
High school graduate	18.9	(17.0-21.0)	17.9	(16.3-19.6)	15.9	(14.4-17.5)
Some college	17.3	(15.5-19.3)	17.6	(15.9-19.4)	16.9	(15.4-18.6)
College graduate	7.2	(6.2-8.5)	11.9	(10.7-13.3)	7.5	(6.6-8.6)
Household Income						
< \$20,000	37.6	(34.0-41.3)	28.4	(25.5-31.5)	33.0	(30.0-36.3)
\$20,000 - \$34,999	24.9	(21.9-28.1)	19.5	(17.3-21.9)	21.6	(19.4-24.0)
\$35,000 - \$49,999	18.1	(14.9-21.9)	15.5	(12.9-18.5)	16.6	(14.0-19.5)
\$50,000 - \$74,999	7.1	(5.4-9.4)	12.3	(10.3-14.7)	7.4	(5.9-9.3)
\$75,000 +	4.1	(2.9-5.6)	9.9	(8.5-11.6)	4.2	(3.3-5.4)

^a Among adults aged 18-64 years, the proportion who reported having no health care coverage, including health insurance, prepaid plans such as HMOs, or government plans, such as Medicare or Indian Health Services. (N = 8,411)

^b 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 = 12,705)

^c 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 = 12,738)

Table 7: No Leisure Time Physical Activity 2013 Michigan BRFSS		
	No Leisure Time Physical Activity^a	
	%	95% Confidence Interval
Total	24.4	(23.4-25.5)
Age		
18 – 24	15.9	(13.2-19.2)
25 – 34	22.1	(18.9-25.8)
35 – 44	22.6	(19.9-25.5)
45 – 54	24.5	(22.2-26.9)
55 – 64	27.2	(25.0-29.4)
65 – 74	27.1	(24.6-29.7)
75 +	35.7	(32.9-38.7)
Gender		
Male	23.8	(22.2-25.4)
Female	25.0	(23.7-26.4)
Race/Ethnicity		
White non-Hispanic	23.2	(22.1-24.3)
Black non-Hispanic	30.7	(27.0-34.7)
Other non-Hispanic	24.2	(19.1-30.3)
Hispanic	26.1	(19.7-33.8)
Education		
Less than high school	36.2	(31.4-41.3)
High school graduate	29.2	(27.4-31.1)
Some college	22.1	(20.4-23.9)
College graduate	16.0	(14.6-17.4)
Household Income		
< \$20,000	33.6	(30.6-36.8)
\$20,000 - \$34,999	29.7	(27.3-32.3)
\$35,000 - \$49,999	24.1	(21.4-27.0)
\$50,000 - \$74,999	20.9	(18.5-23.5)
\$75,000 +	16.1	(14.3-18.0)
^a Among all adults, the proportion who reported not participating in any leisure time physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise during the past month. (N = 12,214)		

Table 8: Aerobic Physical Activity and Muscle Strengthening 2013 Michigan BRFS				
	Adequate Aerobic Physical Activity (≥ 150 minutes / week)^a		Adequate Muscle Strengthening (≥ 2 days / week)^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	53.1	(51.8-54.3)	28.8	(27.7-30.0)
Age				
18 – 24	57.2	(53.1-61.2)	42.7	(38.7-46.8)
25 – 34	51.3	(47.4-55.2)	30.5	(27.1-34.2)
35 – 44	54.3	(50.9-57.7)	32.6	(29.4-36.0)
45 – 54	51.9	(49.1-54.6)	25.8	(23.4-28.3)
55 – 64	50.5	(48.0-53.0)	23.7	(21.7-25.8)
65 – 74	55.4	(52.6-58.2)	24.1	(21.9-26.4)
75 +	53.2	(50.1-56.3)	21.1	(18.6-23.8)
Gender				
Male	54.7	(52.8-56.6)	33.1	(31.4-34.9)
Female	51.5	(49.9-53.2)	24.8	(23.4-26.2)
Race/Ethnicity				
White non-Hispanic	54.7	(53.4-56.0)	27.8	(26.7-29.1)
Black non-Hispanic	45.0	(40.7-49.3)	32.3	(28.4-36.6)
Other non-Hispanic	49.7	(43.3-56.0)	31.1	(25.7-37.1)
Hispanic	51.8	(44.0-59.6)	33.3	(26.5-40.9)
Education				
Less than high school	43.5	(38.1-48.9)	24.5	(19.9-29.9)
High school graduate	49.3	(47.2-51.4)	25.3	(23.4-27.2)
Some college	54.7	(52.6-56.8)	28.9	(27.0-30.9)
College graduate	60.1	(58.1-62.0)	35.3	(33.4-37.1)
Household Income				
< \$20,000	45.4	(42.1-48.7)	26.1	(23.2-29.3)
\$20,000 - \$34,999	49.3	(46.6-52.1)	25.2	(22.9-27.8)
\$35,000 - \$49,999	52.7	(49.3-56.1)	27.2	(24.2-30.4)
\$50,000 - \$74,999	54.4	(51.3-57.4)	28.6	(25.9-31.5)
\$75,000 +	60.1	(57.6-62.5)	35.3	(33.0-37.7)
^a Among all adults, the proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities. (N = 11,826) ^b Among all adults, the proportion who reported that they do muscle strengthening activities on two or more days per week. (N = 12,068)				

Table 9: Adequate Physical Activity 2013 Michigan BRFSS		
Demographic Characteristics	Adequate Physical Activity^a	
	%	95% Confidence Interval
Total	19.5	(18.6-20.5)
Age		
18 - 24	28.9	(25.3-32.8)
25 - 34	18.4	(15.7-21.5)
35 - 44	23.2	(20.3-26.5)
45 - 54	17.6	(15.7-19.7)
55 - 64	16.2	(14.5-18.0)
65 - 74	18.3	(16.4-20.4)
75 +	13.5	(11.5-15.8)
Gender		
Male	22.1	(20.6-23.8)
Female	17.1	(15.9-18.4)
Race/Ethnicity		
White/Non-Hispanic	19.2	(18.2-20.3)
Black/Non-Hispanic	21.2	(17.7-25.2)
Other/Non-Hispanic	19.0	(14.8-24.0)
Hispanic	20.5	(15.1-27.2)
Education		
Less than high school	14.6	(10.8-19.5)
High school graduate	16.4	(14.8-18.1)
Some college	20.0	(18.3-21.8)
College graduate	25.2	(23.5-26.9)
Household Income		
< \$20,000	15.6	(13.3-18.2)
\$20,000 - \$34,999	17.3	(15.3-19.5)
\$35,000 - \$49,999	17.6	(15.3-20.1)
\$50,000 - \$74,999	19.5	(17.2-22.1)
\$75,000 +	25.2	(23.2-27.4)
^a Among all adults, the proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities and also participate in muscle strengthening activities on two or more days per week. (N = 11,732)		

**Table 10: Fruit and Vegetable Consumption
2013 Michigan BRFSS**

	Fruits (< 1 time / day) ^a		Vegetables (< 1 time / day) ^b		Fruits and Vegetables (≥ 5 times / day) ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	37.7	(36.5-38.9)	24.8	(23.6-25.9)	15.3	(14.5-16.2)
Age						
18 – 24	45.6	(41.5-49.7)	36.2	(32.3-40.3)	12.7	(10.2-15.7)
25 – 34	39.8	(36.1-43.6)	27.9	(24.4-31.7)	15.5	(13.1-18.3)
35 – 44	39.3	(36.0-42.7)	23.8	(20.9-27.0)	18.6	(16.1-21.4)
45 – 54	38.0	(35.3-40.7)	22.7	(20.4-25.2)	14.3	(12.5-16.2)
55 – 64	38.2	(35.8-40.6)	21.5	(19.5-23.7)	15.3	(13.7-17.1)
65 – 74	34.1	(31.4-36.8)	21.5	(19.2-24.0)	14.2	(12.4-16.1)
75 +	23.3	(20.7-26.2)	20.0	(17.6-22.6)	16.3	(14.2-18.6)
Gender						
Male	42.4	(40.6-44.3)	28.6	(26.9-30.4)	10.6	(9.5-11.8)
Female	33.4	(31.8-34.9)	21.1	(19.8-22.6)	19.7	(18.5-21.0)
Race/Ethnicity						
White non-Hispanic	37.4	(36.1-38.7)	22.6	(21.4-23.7)	14.9	(14.0-15.8)
Black non-Hispanic	37.7	(33.7-41.9)	36.5	(32.4-40.8)	15.8	(13.1-19.0)
Other non-Hispanic	41.5	(35.3-48.0)	26.2	(20.9-32.4)	15.0	(11.2-19.9)
Hispanic	39.9	(32.7-47.6)	29.5	(22.7-37.5)	19.3	(13.7-26.4)
Education						
Less than high school	48.2	(42.9-53.5)	38.7	(33.6-44.0)	10.6	(7.7-14.4)
High school graduate	40.1	(38.1-42.2)	28.4	(26.4-30.4)	11.9	(10.6-13.3)
Some college	38.1	(36.0-40.2)	23.6	(21.8-25.6)	15.6	(14.2-17.2)
College graduate	29.2	(27.4-31.0)	15.5	(14.1-17.0)	21.4	(19.9-23.1)
Household Income						
< \$20,000	41.8	(38.6-45.0)	34.3	(31.2-37.6)	12.8	(10.8-15.0)
\$20,000 - \$34,999	41.8	(39.1-44.6)	27.1	(24.6-29.7)	13.9	(12.2-15.8)
\$35,000 - \$49,999	36.4	(33.1-39.7)	23.7	(20.8-26.8)	13.9	(11.7-16.4)
\$50,000 - \$74,999	36.2	(33.3-39.3)	19.2	(16.8-21.8)	16.6	(14.5-18.9)
\$75,000 +	32.4	(30.1-34.7)	17.0	(15.2-19.0)	18.6	(16.8-20.5)

^a Among all adults, the proportion whose total reported consumption of fruits (including juice) was less than one time per day (N = 12,270)

^b Among all adults, the proportion whose total reported consumption of vegetables was less than one time per day. (N = 12,047)

^c Among all adults, the proportion whose total reported consumption of fruits (including juice) and vegetables was five or more times per day. (N = 11,869)

**Table 11: Cigarette Smoking
2013 Michigan BRFSS**

	Current Smoking ^a		Former Smoking ^b		Never Smoked	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	21.4	(20.3-22.5)	27.0	(26.0-28.0)	51.6	(50.4-52.8)
Age						
18 – 24	19.7	(16.8-23.0)	5.1	(3.7-6.8)	75.2	(71.7-78.4)
25 – 34	33.3	(29.6-37.1)	17.8	(15.2-20.7)	49.0	(45.2-52.8)
35 – 44	25.0	(22.2-28.1)	21.0	(18.5-23.8)	54.0	(50.6-57.3)
45 – 54	24.0	(21.7-26.6)	25.9	(23.5-28.3)	50.1	(47.4-52.8)
55 – 64	20.7	(18.6-22.9)	36.1	(33.8-38.5)	43.2	(40.8-45.6)
65 – 74	12.9	(10.9-15.2)	47.7	(45.0-50.4)	39.4	(36.9-42.0)
75 +	4.9	(3.6-6.6)	44.5	(41.5-47.5)	50.6	(47.6-53.6)
Gender						
Male	24.7	(23.0-26.5)	30.2	(28.6-31.8)	45.1	(43.3-47.0)
Female	18.3	(17.0-19.7)	24.0	(22.8-25.3)	57.7	(56.1-59.3)
Race/Ethnicity						
White non-Hispanic	20.6	(19.5-21.7)	29.2	(28.1-30.4)	50.2	(48.9-51.5)
Black non-Hispanic	25.9	(22.2-30.1)	17.1	(14.4-20.2)	56.9	(52.7-61.0)
Other non-Hispanic	22.7	(18.2-28.0)	21.0	(16.2-26.6)	56.3	(50.1-62.3)
Hispanic	20.0	(14.4-27.0)	24.2	(18.6-30.9)	55.8	(48.2-63.1)
Education						
Less than high school	39.3	(34.4-44.4)	25.1	(21.3-29.2)	35.6	(30.9-40.7)
High school graduate	25.5	(23.7-27.4)	29.5	(27.8-31.3)	45.0	(42.9-47.0)
Some college	20.7	(19.0-22.4)	26.9	(25.1-28.7)	52.5	(50.4-54.6)
College graduate	8.1	(7.0-9.2)	24.7	(23.1-26.3)	67.2	(65.4-69.0)
Household Income						
< \$20,000	37.5	(34.3-40.8)	22.2	(19.8-24.7)	40.4	(37.2-43.6)
\$20,000 - \$34,999	25.7	(23.2-28.2)	28.4	(26.2-30.8)	45.9	(43.2-48.6)
\$35,000 - \$49,999	21.6	(18.7-24.9)	30.7	(27.8-33.7)	47.7	(44.4-51.0)
\$50,000 - \$74,999	17.1	(14.8-19.7)	30.7	(28.0-33.4)	52.2	(49.2-55.2)
\$75,000 +	10.9	(9.3-12.6)	27.3	(25.3-29.4)	61.8	(59.5-64.1)

^a Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life and that they smoke cigarettes now, either every day or on some days. (N = 12,519)

^b Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life, but they do not smoke cigarettes now. (N = 12,519)

Table 12: Current Smokers Who Attempted to Quit 2013 Michigan BRFSS		
	Tried to Quit Smoking One Day or Longer in Past Year^a	
	%	95% Confidence Interval
Total	62.7	(59.9-65.4)
Age		
18 – 24	69.7	(61.3-76.9)
25 – 34	67.7	(61.0-73.7)
35 – 44	64.4	(57.5-70.7)
45 – 54	58.8	(52.7-64.5)
55 – 64	59.9	(53.9-65.6)
65 – 74	48.8	(39.8-57.9)
75 +	56.0	(42.3-68.8)
Gender		
Male	60.2	(56.1-64.1)
Female	65.9	(62.1-69.6)
Race/Ethnicity		
White non-Hispanic	61.3	(58.1-64.3)
Black non-Hispanic	69.4	(60.8-76.8)
Other non-Hispanic	61.8	(49.3-72.9)
Hispanic	-- ^b	-- ^b
Education		
Less than high school	63.9	(55.8-71.3)
High school graduate	59.5	(55.2-63.7)
Some college	65.1	(60.5-69.4)
College graduate	63.8	(57.0-70.1)
Household Income		
< \$20,000	66.8	(61.4-71.7)
\$20,000 - \$34,999	63.6	(58.0-69.0)
\$35,000 - \$49,999	60.1	(51.8-67.8)
\$50,000 - \$74,999	59.3	(51.5-66.6)
\$75,000 +	61.1	(53.1-68.7)
^a Among current smokers, the proportion who reported that during the past 12 months, they had tried to quit smoking for one day or longer. (N = 2,146)		
^b Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

Table 13: Smokeless Tobacco Use 2013 Michigan BRFSS		
	Current Smokeless Tobacco Use^a	
	%	95% Confidence Interval
Total	4.0	(3.5-4.5)
Age		
18 – 24	7.0	(5.2-9.3)
25 – 34	6.0	(4.5-8.0)
35 – 44	4.9	(3.7-6.5)
45 – 54	3.1	(2.3-4.3)
55 – 64	2.5	(1.7-3.6)
65 – 74	2.2	(1.5-3.3)
75 +	1.1	(0.6-1.8)
Gender		
Male	6.6	(5.7-7.6)
Female	1.4	(1.1-1.9)
Race/Ethnicity		
White non-Hispanic	4.1	(3.6-4.8)
Black non-Hispanic	-- ^b	-- ^b
Other non-Hispanic	-- ^b	-- ^b
Hispanic	-- ^b	-- ^b
Education		
Less than high school	5.6	(3.7-8.5)
High school graduate	5.1	(4.2-6.1)
Some college	3.9	(3.1-4.8)
College graduate	1.7	(1.3-2.3)
Household Income		
< \$20,000	4.7	(3.4-6.4)
\$20,000 - \$34,999	4.0	(3.0-5.3)
\$35,000 - \$49,999	3.9	(2.8-5.5)
\$50,000 - \$74,999	5.3	(3.9-7.1)
\$75,000 +	3.1	(2.3-4.1)

^a Among all adults, the proportion who reported that they currently use chewing tobacco, snuff or snus, either every day or on some days. (N = 12,545)

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

**Table 14: Alcohol Consumption
2013 Michigan BRFSS**

	Any Alcohol in Past Month ^a		Heavy Drinking ^b		Binge Drinking ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	56.6	(55.3-57.8)	6.2	(5.7-6.9)	18.9	(17.9-19.9)
Age						
18 – 24	56.5	(52.5-60.5)	7.0	(5.4-9.0)	27.9	(24.7-31.4)
25 – 34	62.7	(58.8-66.4)	7.2	(5.5-9.4)	29.2	(25.9-32.7)
35 – 44	61.8	(58.4-65.1)	6.7	(5.2-8.6)	20.6	(18.1-23.4)
45 – 54	60.2	(57.5-62.8)	7.3	(6.0-8.7)	21.1	(18.9-23.4)
55 – 64	54.3	(51.8-56.7)	5.6	(4.5-7.0)	13.2	(11.6-15.0)
65 – 74	50.0	(47.2-52.7)	5.1	(4.1-6.4)	9.0	(7.4-10.9)
75 +	42.6	(39.7-45.6)	3.2	(2.4-4.4)	4.1	(2.9-5.8)
Gender						
Male	62.0	(60.1-63.8)	6.9	(6.0-7.9)	24.1	(22.6-25.7)
Female	51.4	(49.8-53.1)	5.6	(5.0-6.4)	13.9	(12.8-15.2)
Race/Ethnicity						
White non-Hispanic	59.1	(57.8-60.4)	7.2	(6.5-7.9)	19.5	(18.5-20.6)
Black non-Hispanic	47.7	(43.6-51.9)	2.6	(1.6-4.2)	14.9	(12.0-18.2)
Other non-Hispanic	44.8	(38.8-50.9)	3.7	(2.3-6.0)	17.0	(13.0-22.0)
Hispanic	52.9	(45.2-60.4)	-- ^d	-- ^d	23.3	(17.6-30.0)
Education						
Less than high school	34.3	(29.7-39.1)	4.8	(3.1-7.4)	14.3	(11.2-18.1)
High school graduate	51.3	(49.3-53.4)	6.8	(5.8-8.0)	18.8	(17.1-20.6)
Some college	59.9	(57.8-61.9)	6.7	(5.7-7.8)	19.8	(18.1-21.5)
College graduate	69.8	(68.0-71.6)	5.6	(4.8-6.5)	20.2	(18.6-22.0)
Household Income						
< \$20,000	44.1	(40.9-47.3)	6.4	(5.0-8.1)	18.5	(16.1-21.1)
\$20,000 - \$34,999	49.2	(46.5-51.9)	5.8	(4.7-7.1)	16.6	(14.7-18.7)
\$35,000 - \$49,999	54.7	(51.3-58.0)	6.2	(4.8-8.0)	16.4	(14.1-19.1)
\$50,000 - \$74,999	61.4	(58.4-64.4)	6.8	(5.5-8.5)	20.4	(18.0-23.1)
\$75,000 +	75.4	(73.4-77.4)	6.9	(5.8-8.3)	24.2	(22.1-26.4)

^a Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month. (N = 12,458)

^b Among all adults, the proportion who reported consuming an average of more than two alcoholic drinks per day for men or more than one per day for women in the previous month. (N = 12,346)

^c Among all adults, the proportion who reported consuming five or more drinks per occasion (for men) or 4 or more drinks per occasion (for women) at least once in the previous month. (N = 12,368)

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

Table 15: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers 2013 Michigan BRFSS		
	Number of Binge Drinking Occasions^a	
	Mean	95% Confidence Interval
Total	4.4	(4.1-4.8)
Age		
18 – 24	4.0	(3.4-4.5)
25 – 34	3.8	(3.1-4.4)
35 – 44	4.7	(3.7-5.7)
45 – 54	4.9	(4.0-5.8)
55 – 64	5.1	(4.1-6.1)
65 – 74	5.0	(3.6-6.5)
75+	4.0	(2.4-5.6)
Gender		
Male	5.1	(4.6-5.6)
Female	3.3	(2.9-3.6)
Race/Ethnicity		
White non-Hispanic	4.5	(4.1-4.9)
Black non-Hispanic	3.9	(2.7-5.1)
Other non-Hispanic	4.7	(3.0-6.4)
Hispanic	3.8	(2.1-5.4)
Education		
Less than high school	6.4	(4.3-8.5)
High school graduate	4.9	(4.3-5.6)
Some college	4.3	(3.8-4.9)
College graduate	3.3	(2.9-3.6)
Household Income		
< \$20,000	4.8	(4.0-5.6)
\$20,000 - \$34,999	5.4	(4.5-6.2)
\$35,000 - \$49,999	3.9	(2.9-4.8)
\$50,000 - \$74,999	4.5	(3.6-5.4)
\$75,000 +	3.6	(3.1-4.2)
^a Among adults who binge drank in the past month, the mean number of times during which five or more alcoholic beverages (for men) or four or more (for women) were consumed during the past month. (N = 1,930)		

Table 16: Seatbelt Use 2013 Michigan BRFSS		
	Always Uses a Seatbelt^a	
	%	95% Confidence Interval
Total	89.6	(88.8-90.4)
Age		
18 – 24	81.6	(78.2-84.5)
25 – 34	87.1	(84.1-89.6)
35 – 44	90.9	(88.6-92.7)
45 – 54	91.1	(89.4-92.6)
55 – 64	92.0	(90.4-93.4)
65 – 74	92.5	(91.0-93.7)
75 +	91.4	(89.6-92.9)
Gender		
Male	86.8	(85.4-88.1)
Female	92.2	(91.2-93.0)
Race/Ethnicity		
White non-Hispanic	90.1	(89.2-90.9)
Black non-Hispanic	89.0	(86.0-91.4)
Other non-Hispanic	87.1	(82.2-90.9)
Hispanic	87.3	(80.7-91.9)
Education		
Less than high school	87.0	(82.8-90.3)
High school graduate	88.5	(87.1-89.8)
Some college	88.8	(87.4-90.2)
College graduate	93.2	(92.1-94.2)
Household Income		
< \$20,000	87.6	(85.1-89.7)
\$20,000 - \$34,999	88.3	(86.4-90.0)
\$35,000 - \$49,999	89.6	(87.3-91.6)
\$50,000 - \$74,999	89.4	(87.1-91.4)
\$75,000 +	91.7	(90.0-93.0)
^a Among all adults, the proportion who reported always using a seatbelt when driving or riding in a car. (N = 12,109)		

Table 17: Hypertension Awareness and Medication Use 2013 Michigan BRFS				
Demographic Characteristics	Ever Told HBP^a		Taking BP Medication^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	34.6	(33.5-35.7)	75.7	(73.8-77.5)
Age				
18 – 24	8.8	(6.9-11.2)	-- ^c	-- ^c
25 – 34	14.3	(11.6-17.5)	26.2	(17.5-37.4)
35 – 44	20.8	(18.2-23.7)	51.8	(44.3-59.2)
45 – 54	36.5	(33.9-39.2)	72.0	(67.6-76.1)
55 – 64	48.0	(45.6-50.4)	84.0	(81.2-86.4)
65 – 74	62.6	(59.9-65.1)	91.8	(89.9-93.4)
75 +	69.4	(66.5-72.1)	94.2	(92.4-95.6)
Gender				
Male	37.2	(35.5-38.9)	71.0	(68.2-73.8)
Female	32.2	(30.9-33.6)	80.8	(78.5-82.9)
Race/Ethnicity				
White non-Hispanic	34.3	(33.2-35.5)	75.9	(73.9-77.8)
Black non-Hispanic	42.0	(38.1-46.0)	76.3	(70.4-81.3)
Other non-Hispanic	24.8	(20.3-29.9)	72.1	(62.0-80.3)
Hispanic	23.5	(17.9-30.2)	68.3	(52.8-80.5)
Education				
Less than high school	45.6	(40.7-50.5)	75.3	(67.9-81.4)
High school graduate	38.4	(36.5-40.3)	76.8	(73.8-79.5)
Some college	31.9	(30.1-33.7)	74.3	(71.1-77.2)
College graduate	28.2	(26.6-29.9)	76.3	(73.2-79.2)
Household Income				
< \$20,000	40.8	(37.7-43.9)	71.7	(66.5-76.3)
\$20,000 - \$34,999	39.4	(36.9-42.0)	77.5	(73.6-80.9)
\$35,000 - \$49,999	36.4	(33.3-39.6)	78.8	(73.5-83.3)
\$50,000 - \$74,999	32.7	(30.0-35.4)	75.6	(71.1-79.7)
\$75,000 +	27.6	(25.6-29.7)	73.9	(69.6-77.8)

^a Among all adults, the proportion who reported that they were ever told by a doctor that they had high blood pressure (HBP). Women who had HBP only during pregnancy and adults who were borderline hypertensive were considered to not have been diagnosed. (N = 12,728)

^b Among adults who were ever told that they had HBP, the proportion that reported they were currently taking blood pressure (BP) medicines for their HBP. (N = 5,280)

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

**Table 18: Cholesterol Screening and Awareness
2013 Michigan BRFSS**

Demographic Characteristics	Cholesterol Ever Checked ^a		Checked Within Past Five Years ^b		Ever Told High Cholesterol ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	83.2	(82.1-84.2)	79.4	(78.3-80.5)	40.6	(39.4-41.8)
Age						
18 – 24	46.9	(42.8-51.0)	43.7	(39.6-47.8)	9.7	(6.7-13.9)
25 – 34	64.8	(60.9-68.5)	60.1	(56.1-63.9)	16.4	(13.4-19.9)
35 – 44	85.0	(82.3-87.4)	79.4	(76.4-82.2)	26.2	(23.1-29.5)
45 – 54	92.6	(91.0-94.0)	87.5	(85.5-89.2)	42.5	(39.7-45.3)
55 – 64	96.2	(95.0-97.1)	92.5	(91.1-93.8)	53.4	(51.0-55.9)
65 – 74	98.2	(97.4-98.8)	96.8	(95.8-97.6)	61.4	(58.6-64.0)
75 +	97.5	(96.5-98.2)	96.5	(95.3-97.3)	55.9	(52.9-59.0)
Gender						
Male	81.4	(79.7-82.9)	76.9	(75.1-78.5)	43.5	(41.6-45.4)
Female	84.9	(83.5-86.2)	81.7	(80.3-83.1)	38.0	(36.4-39.6)
Race/Ethnicity						
White non-Hispanic	84.5	(83.3-85.5)	80.2	(79.0-81.3)	42.2	(40.9-43.5)
Black non-Hispanic	80.3	(76.5-83.7)	79.0	(75.1-82.5)	36.1	(32.0-40.3)
Other non-Hispanic	75.7	(69.5-81.0)	72.9	(66.6-78.4)	31.7	(26.0-38.0)
Hispanic	74.3	(67.1-80.5)	71.0	(63.7-77.4)	33.3	(25.9-41.5)
Education						
Less than high school	72.9	(67.9-77.4)	69.1	(63.9-73.8)	44.5	(39.0-50.2)
High school graduate	82.0	(80.1-83.7)	78.1	(76.2-79.9)	45.4	(43.2-47.6)
Some college	82.5	(80.6-84.3)	78.7	(76.7-80.5)	39.1	(37.0-41.2)
College graduate	90.8	(89.6-92.0)	87.1	(85.6-88.4)	35.6	(33.8-37.4)
Household Income						
< \$20,000	74.0	(70.8-76.9)	69.6	(66.4-72.7)	42.8	(39.3-46.3)
\$20,000 - \$34,999	81.1	(78.6-83.4)	77.0	(74.4-79.4)	44.5	(41.7-47.4)
\$35,000 - \$49,999	85.6	(82.6-88.1)	82.2	(79.0-84.9)	43.0	(39.6-46.5)
\$50,000 - \$74,999	88.8	(86.5-90.8)	83.6	(80.9-85.9)	40.4	(37.4-43.4)
\$75,000 +	90.0	(88.1-91.6)	86.9	(84.9-88.6)	35.1	(32.9-37.3)

^a Among all adults, the proportion who reported ever having had their blood cholesterol checked. (N = 12,524)

^b Among all adults, the proportion who reported that they have had their blood cholesterol checked within the past five years. (N = 12,394)

^c Among adults who ever had their blood cholesterol checked, the proportion who reported that a doctor, nurse, or other health professional had told them that their cholesterol was high. (N = 11,093)

Table 19: No Routine Checkup in Past Year 2013 Michigan BRFSS		
	Had No Routine Checkup in Past Year^a	
	%	95% Confidence Interval
Total	30.1	(29.0-31.3)
Age		
18 - 24	39.9	(36.1-43.8)
25 - 34	42.8	(39.1-46.6)
35 - 44	37.8	(34.6-41.2)
45 - 54	31.3	(28.9-33.9)
55 - 64	24.5	(22.5-26.7)
65 - 74	12.8	(11.1-14.7)
75 +	11.5	(9.7-13.6)
Gender		
Male	35.0	(33.2-36.8)
Female	25.6	(24.2-27.0)
Race/Ethnicity		
White non-Hispanic	30.5	(29.3-31.7)
Black non-Hispanic	22.6	(19.5-26.2)
Other non-Hispanic	40.6	(34.7-46.9)
Hispanic	36.4	(29.8-43.7)
Education		
Less than high school	30.4	(26.0-35.3)
High school graduate	30.2	(28.4-32.2)
Some college	30.5	(28.6-32.6)
College graduate	29.1	(27.4-30.9)
Household Income		
< \$20,000	35.8	(32.8-38.9)
\$20,000 - \$34,999	32.5	(29.9-35.2)
\$35,000 - \$49,999	31.6	(28.5-34.9)
\$50,000 - \$74,999	27.1	(24.4-29.9)
\$75,000 +	27.5	(25.4-29.7)
^a Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 12,602)		

Table 20: Colorectal Cancer Screening (Blood Stool Test) Among Adults Aged 50 Years and Older 2013 Michigan BRFSS				
	Ever Had Blood Stool Test^a		Had Blood Stool Test in Past Two Years^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	35.8	(34.4-37.1)	13.3	(12.3-14.3)
Age				
50 - 59	25.2	(23.1-27.5)	9.9	(8.5-11.5)
60 - 69	41.7	(39.2-44.1)	15.0	(13.3-16.9)
70 +	44.9	(42.5-47.3)	16.4	(14.6-18.3)
Gender				
Male	32.0	(30.0-34.1)	13.2	(11.7-14.8)
Female	39.1	(37.3-41.0)	13.4	(12.2-14.7)
Race/Ethnicity				
White non-Hispanic	37.1	(35.6-38.5)	13.0	(12.0-14.0)
Black non-Hispanic	35.0	(29.9-40.5)	17.3	(13.3-22.3)
Other non-Hispanic	18.7	(13.3-25.8)	8.2	(4.8-13.8)
Hispanic	20.2	(12.1-31.9)	-- ^c	-- ^c
Education				
Less than high school	18.7	(14.5-23.7)	7.8	(5.0-12.0)
High school graduate	35.6	(33.4-37.9)	13.0	(11.5-14.7)
Some college	38.1	(35.5-40.6)	14.5	(12.7-16.4)
College graduate	41.6	(39.3-43.9)	14.8	(13.1-16.5)
Household Income				
< \$20,000	26.4	(23.2-30.0)	10.6	(8.4-13.3)
\$20,000 - \$34,999	36.2	(33.3-39.2)	13.3	(11.3-15.5)
\$35,000 - \$49,999	38.3	(34.6-42.0)	12.9	(10.6-15.7)
\$50,000 - \$74,999	36.6	(33.3-40.2)	12.9	(10.7-15.5)
\$75,000 +	39.1	(36.1-42.1)	15.5	(13.4-17.9)
^a Among adults aged 50 years and older, the proportion who reported ever having a blood stool test using a home kit. (N = 7,787) ^b 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 = 7,678) ^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.				

**Table 21: Colorectal Cancer Screening (Sigmoidoscopy/Colonoscopy)
Among Adults Aged 50 Years and Older
2013 Michigan BRFSS**

	Ever Had a Sigmoidoscopy or Colonoscopy ^a		Had a Sigmoidoscopy or Colonoscopy in Past 5 Years ^b		Had a Sigmoidoscopy in Past 5 Years or Colonoscopy in Past 10 Years ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	74.0	(72.6-75.4)	56.4	(54.9-57.8)	68.7	(67.3-70.1)
Age						
50 - 59	64.6	(62.1-67.1)	50.7	(48.1-53.3)	60.7	(58.1-63.2)
60 - 69	79.8	(77.5-81.9)	59.5	(56.9-62.0)	74.2	(71.8-76.5)
70 +	81.6	(79.5-83.4)	61.3	(58.9-63.7)	74.6	(72.3-76.7)
Gender						
Male	73.2	(71.0-75.3)	57.5	(55.1-59.8)	67.9	(65.6-70.2)
Female	74.8	(73.0-76.4)	55.4	(53.4-57.3)	69.4	(67.6-71.2)
Race/Ethnicity						
White non-Hispanic	75.3	(73.9-76.7)	56.3	(54.8-57.9)	69.6	(68.1-71.0)
Black non-Hispanic	69.0	(63.1-74.3)	58.9	(53.0-64.6)	66.1	(60.1-71.6)
Other non-Hispanic	61.8	(51.6-71.0)	44.3	(35.2-53.8)	56.0	(46.0-65.6)
Hispanic	73.3	(60.4-83.2)	62.1	(49.2-73.5)	71.0	(58.1-81.2)
Education						
Less than high school	63.0	(56.6-68.9)	50.0	(43.6-56.3)	59.1	(52.6-65.3)
High school graduate	72.2	(69.9-74.3)	55.4	(52.9-57.8)	66.6	(64.2-68.9)
Some college	75.5	(73.0-77.8)	56.9	(54.2-59.5)	69.9	(67.3-72.3)
College graduate	80.7	(78.7-82.6)	60.5	(58.2-62.9)	75.3	(73.1-77.4)
Household Income						
< \$20,000	59.6	(55.3-63.8)	45.3	(41.1-49.5)	53.9	(49.6-58.2)
\$20,000 - \$34,999	73.7	(70.7-76.4)	55.7	(52.6-58.9)	68.3	(65.2-71.2)
\$35,000 - \$49,999	77.8	(74.0-81.2)	59.0	(54.9-62.9)	72.1	(68.1-75.7)
\$50,000 - \$74,999	78.3	(74.9-81.3)	61.7	(58.0-65.3)	73.8	(70.2-77.1)
\$75,000 +	78.1	(75.2-80.7)	58.6	(55.5-61.7)	72.7	(69.7-75.5)

^a Among adults aged 50 years and older, the proportion who reported ever having a sigmoidoscopy or colonoscopy. (N = 7,807)

^b Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy or colonoscopy in the past five years. (N = 7,726)

^c Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy in the past five years or a colonoscopy in the past ten years. (N = 7,618)

	Had Flu Vaccine in Past Year^a		Ever Had Pneumonia Vaccine^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	56.8	(54.8-58.9)	68.6	(66.5-70.5)
Age				
65 - 74	53.6	(50.8-56.3)	63.0	(60.2-65.7)
75 +	61.1	(58.0-64.1)	75.9	(73.0-78.5)
Gender				
Male	57.6	(54.2-60.8)	66.5	(63.1-69.7)
Female	56.2	(53.6-58.8)	70.1	(67.6-72.5)
Race/Ethnicity				
White non-Hispanic	59.0	(56.9-61.1)	70.6	(68.6-72.5)
Black non-Hispanic	40.0	(32.0-48.5)	52.5	(43.2-61.6)
Other non-Hispanic	46.2	(32.9-60.0)	61.8	(47.0-74.6)
Hispanic	-- ^c	-- ^c	-- ^c	-- ^c
Education				
Less than high school	51.1	(43.3-58.9)	61.6	(53.1-69.5)
High school graduate	55.0	(51.8-58.1)	69.3	(66.2-72.2)
Some college	58.0	(54.3-61.5)	70.6	(67.1-73.8)
College graduate	63.4	(60.0-66.7)	68.9	(65.5-72.1)
Household Income				
< \$20,000	55.0	(48.9-60.9)	63.8	(57.5-69.7)
\$20,000 - \$34,999	55.8	(51.8-59.7)	69.8	(65.8-73.5)
\$35,000 - \$49,999	56.7	(51.4-61.9)	67.4	(62.0-72.5)
\$50,000 - \$74,999	57.2	(51.7-62.5)	67.8	(62.4-72.7)
\$75,000 +	60.3	(54.7-65.7)	69.5	(63.9-74.5)
^a Among adults aged 65 years and older, the proportion who reported that they had a flu vaccine, either by an injection in the arm or sprayed in the nose during the past 12 months. (N = 4,022)				
^b Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 3,869)				
^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.				

Table 23: HIV Testing among Adults Aged 18 - 64 Years 2013 Michigan BRFSS		
	Ever Had an HIV Test^a	
	%	95% Confidence Interval
Total	41.2	(39.8-42.7)
Age		
18 – 24	27.0	(23.5-30.8)
25 – 34	53.5	(49.6-57.5)
35 – 44	57.2	(53.8-60.6)
45 – 54	41.7	(39.0-44.5)
55 – 64	27.5	(25.2-29.8)
Gender		
Male	37.9	(35.8-40.1)
Female	44.4	(42.5-46.4)
Race/Ethnicity		
White non-Hispanic	36.1	(34.6-37.7)
Black non-Hispanic	71.2	(66.8-75.2)
Other non-Hispanic	38.4	(32.0-45.1)
Hispanic	40.8	(32.8-49.3)
Education		
Less than high school	45.0	(38.6-51.7)
High school graduate	36.8	(34.3-39.5)
Some college	41.9	(39.5-44.4)
College graduate	43.7	(41.5-46.0)
Household Income		
< \$20,000	50.7	(46.9-54.6)
\$20,000 - \$34,999	44.2	(40.7-47.7)
\$35,000 - \$49,999	40.2	(36.1-44.5)
\$50,000 - \$74,999	40.7	(37.2-44.2)
\$75,000 +	36.5	(34.0-39.1)
^a Among adults aged 18 - 64 years, the proportion who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation. Don't know was considered a valid response to this question. (N = 7,771)		

Table 24: Asthma among Adults 2013 Michigan BRFSS				
	Lifetime Asthma Prevalence^a		Current Asthma Prevalence^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	16.6	(15.7-17.5)	11.5	(10.7-12.3)
Age				
18 - 24	22.8	(19.7-26.3)	14.1	(11.5-17.2)
25 - 34	18.3	(15.6-21.3)	10.6	(8.6-13.2)
35 - 44	16.9	(14.5-19.6)	12.5	(10.4-14.9)
45 - 54	14.4	(12.6-16.5)	10.8	(9.1-12.6)
55 - 64	16.9	(15.1-18.9)	12.3	(10.7-14.1)
65 - 74	14.9	(13.0-17.0)	12.0	(10.2-13.9)
75 +	10.2	(8.5-12.2)	7.0	(5.6-8.6)
Gender				
Male	14.3	(13.0-15.8)	8.6	(7.6-9.8)
Female	18.7	(17.5-20.0)	14.2	(13.1-15.3)
Race/Ethnicity				
White non-Hispanic	16.0	(15.0-17.0)	10.9	(10.1-11.8)
Black non-Hispanic	19.4	(16.4-22.7)	14.3	(11.7-17.4)
Other non-Hispanic	19.0	(14.8-24.2)	11.7	(8.9-15.2)
Hispanic	18.3	(12.8-25.5)	13.4	(8.7-20.2)
Education				
Less than high school	22.9	(19.0-27.3)	17.5	(14.1-21.5)
High school graduate	16.1	(14.6-17.7)	11.6	(10.3-13.0)
Some college	16.2	(14.7-17.9)	10.7	(9.4-12.1)
College graduate	14.7	(13.4-16.1)	9.6	(8.5-10.8)
Household Income				
< \$20,000	23.6	(21.0-26.4)	18.2	(15.9-20.8)
\$20,000 - \$34,999	16.9	(14.9-19.1)	11.4	(9.8-13.4)
\$35,000 - \$49,999	15.4	(13.0-18.2)	10.5	(8.5-13.0)
\$50,000 - \$74,999	12.6	(10.7-14.6)	8.5	(7.0-10.2)
\$75,000 +	13.8	(12.2-15.6)	9.1	(7.8-10.6)
^a Among all adults, the proportion who reported that they were ever told by a doctor, nurse, or other health care professional that they had asthma. (N = 12,697)				
^b Among all adults, the proportion who reported that they still had asthma. (N = 12,619)				

Table 25: Asthma among Children 2013 Michigan BRFSS				
	Lifetime Asthma Prevalence^a		Current Asthma Prevalence^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	15.2	(13.6-17.0)	10.9	(9.5-12.5)
Age				
0 - 4	7.2	(4.7-11.1)	5.8	(3.5-9.3)
5 - 9	15.0	(12.0-18.8)	11.4	(8.7-14.8)
10 - 14	19.8	(16.6-23.4)	13.6	(10.8-16.8)
15 - 17	16.1	(12.9-19.7)	11.3	(8.6-14.8)
Gender				
Boy	18.4	(16.0-21.1)	13.5	(11.3-15.9)
Girl	11.6	(9.6-13.9)	8.5	(6.7-10.6)
Race/Ethnicity				
White non-Hispanic	12.7	(11.1-14.4)	8.8	(7.5-10.4)
Black non-Hispanic	18.2	(13.7-23.7)	15.2	(11.1-20.5)
Other non-Hispanic	18.5	(11.4-28.7)	-- ^c	-- ^c
Hispanic	23.2	(16.1-32.3)	19.2	(12.7-28.1)
Respondent Education				
Less than high school	26.4	(17.4-37.8)	23.7	(14.9-35.3)
High school graduate	18.8	(15.4-22.8)	13.3	(10.3-16.9)
Some college	15.0	(12.1-18.4)	11.2	(8.6-14.4)
College graduate	11.8	(9.6-14.2)	7.8	(6.2-9.9)
Household Income				
< \$20,000	22.1	(16.8-28.4)	16.9	(12.1-23.1)
\$20,000 - \$34,999	18.5	(14.2-23.8)	13.1	(9.4-18.1)
\$35,000 - \$49,999	14.2	(10.0-19.8)	11.7	(7.8-17.3)
\$50,000 - \$74,999	14.1	(10.8-18.1)	9.0	(6.5-12.4)
\$75,000 +	11.5	(9.2-14.2)	8.2	(6.4-10.5)
^a Estimated proportion of Michigan children aged 0-17 years who were ever told by a doctor, nurse or other health professional that they had asthma, using proxy information from the adult respondent. (N = 2,724). ^b Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 2,517) ^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.				

**Table 26: Chronic Obstructive Pulmonary Disease (COPD)
2013 Michigan BRFSS**

	Ever Told COPD, Emphysema or Chronic Bronchitis ^a	
	%	95% Confidence Interval
Total	8.8	(8.1-9.5)
Age		
18 - 24	2.8	(1.7-4.6)
25 - 34	3.4	(2.4-4.9)
35 - 44	5.0	(3.7-6.8)
45 - 54	9.1	(7.5-11.1)
55 - 64	14.5	(12.7-16.6)
65 - 75	14.7	(12.8-16.8)
75 +	14.1	(12.1-16.5)
Gender		
Male	7.9	(7.0-9.0)
Female	9.5	(8.6-10.5)
Race/Ethnicity		
White/Non-Hispanic	8.6	(7.9-9.3)
Black/Non-Hispanic	10.7	(8.4-13.6)
Other/Non-Hispanic	8.5	(5.8-12.4)
Hispanic	-- ^b	-- ^b
Education		
Less than high school	21.2	(17.5-25.4)
High school graduate	9.7	(8.6-10.8)
Some college	7.5	(6.6-8.5)
College graduate	3.2	(2.6-3.8)
Household Income		
< \$20,000	18.0	(15.8-20.5)
\$20,000 - \$34,999	11.9	(10.3-13.6)
\$35,000 - \$49,999	7.4	(5.6-9.7)
\$50,000 - \$74,999	4.7	(3.6-6.1)
\$75,000 +	2.8	(2.2-3.6)
^a Among all adults, the proportion who reported ever being told by a doctor that they had chronic obstructive pulmonary disease (COPD), emphysema or chronic bronchitis. (N = 12,690)		
^b Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

Table 27: Arthritis 2013 Michigan BRFSS				
Demographic Characteristics	Ever Told Arthritis^a		Usual Activities Now Limited^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	31.3	(30.3-32.4)	48.8	(46.8-50.7)
Age				
18 - 24	5.4	(3.9-7.3)	-- ^c	-- ^c
25 - 34	10.2	(8.1-12.8)	56.3	(44.0-67.8)
35 - 44	17.9	(15.5-20.6)	51.4	(43.3-59.4)
45 - 54	30.5	(28.0-33.0)	52.9	(47.8-57.9)
55 - 64	51.2	(48.7-53.6)	50.4	(46.9-53.9)
65 - 75	57.3	(54.7-60.0)	44.0	(40.3-47.7)
75 +	62.8	(59.9-65.7)	45.2	(41.5-49.0)
Gender				
Male	27.9	(26.4-29.4)	48.5	(45.3-51.8)
Female	34.6	(33.2-36.0)	49.0	(46.5-51.4)
Race/Ethnicity				
White/Non-Hispanic	32.9	(31.8-34.1)	46.8	(44.8-48.9)
Black/Non-Hispanic	29.1	(25.8-32.6)	55.1	(48.4-61.7)
Other/Non-Hispanic	19.7	(15.7-24.3)	57.6	(45.0-69.2)
Hispanic	22.0	(16.6-28.7)	59.1	(43.8-72.8)
Education				
Less than high school	38.3	(33.8-43.1)	62.2	(55.0-69.0)
High school graduate	36.3	(34.4-38.1)	47.3	(44.3-50.3)
Some college	30.5	(28.8-32.3)	49.1	(45.8-52.5)
College graduate	22.5	(21.1-23.9)	39.9	(36.6-43.3)
Household Income				
< \$20,000	38.3	(35.4-41.4)	68.3	(63.8-72.5)
\$20,000 - \$34,999	39.7	(37.1-42.3)	52.5	(48.5-56.5)
\$35,000 - \$49,999	35.7	(32.7-38.8)	43.1	(38.1-48.3)
\$50,000 - \$74,999	28.0	(25.6-30.6)	37.7	(33.0-42.8)
\$75,000 +	20.1	(18.4-21.8)	34.4	(30.1-38.9)
^a Among all adults, the proportion who reported ever being told by a doctor that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. (N = 12,674) ^b 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 = 4,770) ^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.				

**Table 28: Cardiovascular Disease
2013 Michigan BRFSS**

	Ever Told Heart Attack ^a		Had Told Angina or Coronary Heart Disease ^b		Ever Told Stroke ^c		Ever Told Any Cardiovascular Disease ^d	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	5.2	(4.7-5.7)	5.2	(4.8-5.7)	3.6	(3.2-4.0)	10.1	(9.4-10.8)
Age								
18 - 34	-- ^e	-- ^e	-- ^e	-- ^e	-- ^e	-- ^e	1.5	(0.9-2.4)
35 - 44	1.4	(0.8-2.5)	-- ^e	-- ^e	2.5	(1.6-3.9)	4.2	(3.0-5.9)
45 - 54	3.6	(2.7-4.8)	3.9	(2.9-5.3)	2.9	(2.1-4.1)	7.5	(6.1-9.2)
55 - 64	7.1	(5.9-8.5)	8.8	(7.5-10.4)	5.3	(4.2-6.6)	14.9	(13.2-16.8)
65 - 74	11.2	(9.5-13.1)	12.8	(11.0-14.7)	6.4	(5.1-8.1)	22.6	(20.3-25.1)
75 +	17.9	(15.7-20.4)	15.9	(13.8-18.3)	10.8	(9.0-12.8)	30.0	(27.3-32.9)
Gender								
Male	6.8	(6.0-7.7)	6.9	(6.1-7.8)	3.7	(3.1-4.4)	12.2	(11.1-13.3)
Female	3.6	(3.1-4.2)	3.7	(3.2-4.2)	3.5	(3.0-4.1)	8.1	(7.4-9.0)
Race/Ethnicity								
White non-Hispanic	5.4	(4.9-6.0)	5.6	(5.1-6.1)	3.3	(2.9-3.7)	10.1	(9.5-10.9)
Black non-Hispanic	3.6	(2.5-5.1)	4.8	(3.5-6.6)	5.1	(3.7-6.8)	10.5	(8.5-13.0)
Other non-Hispanic	4.2	(2.7-6.6)	4.0	(2.6-6.3)	4.7	(2.5-8.4)	9.3	(6.4-13.3)
Hispanic	-- ^e	-- ^e	-- ^e	-- ^e	-- ^e	-- ^e	-- ^e	-- ^e
Education								
< High school	9.7	(7.5-12.5)	9.6	(7.3-12.3)	7.2	(5.2-9.8)	18.5	(15.2-22.2)
High school graduate	6.1	(5.3-6.9)	5.6	(4.9-6.4)	3.8	(3.1-4.5)	11.1	(10.0-12.2)
Some college	4.6	(3.9-5.4)	4.8	(4.1-5.7)	3.4	(2.8-4.1)	9.2	(8.2-10.3)
College graduate	2.4	(2.0-3.0)	3.2	(2.7-3.8)	1.8	(1.5-2.3)	5.9	(5.2-6.7)
Household Income								
< \$20,000	8.2	(6.7-10.0)	7.6	(6.3-9.2)	6.5	(5.3-8.1)	15.4	(13.4-17.6)
\$20,000 - \$34,999	7.4	(6.4-8.7)	7.1	(6.0-8.4)	5.5	(4.3-6.9)	14.3	(12.6-16.2)
\$35,000 - \$49,999	5.6	(4.3-7.2)	5.0	(3.8-6.5)	4.3	(3.1-5.9)	11.1	(9.2-13.3)
\$50,000 - \$74,999	3.6	(2.7-4.8)	4.4	(3.3-5.7)	1.8	(1.3-2.5)	7.4	(6.1-9.0)
\$75,000 +	1.9	(1.4-2.6)	2.7	(2.1-3.4)	1.1	(0.8-1.6)	4.7	(3.9-5.7)

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

^a they had a heart attack or myocardial infarction (N = 12,685);

^b they had angina or coronary heart disease (N = 12,648);

^c they had a stroke. (N = 12,725)

^d they had a heart attack, coronary heart disease or a stroke. (N = 12,634)

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

Table 29: Cancer 2013 Michigan BRFS						
	Ever Told Skin Cancer^a		Ever Told Any Other Types of Cancer^b		Ever Told Cancer^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	5.4	(5.0-5.8)	7.7	(7.2-8.3)	11.9	(11.2-12.5)
Age						
18 - 34	-- ^d	-- ^d	2.1	(1.5-3.0)	2.2	(1.5-3.1)
35 - 44	1.1	(0.6-1.9)	2.6	(1.8-3.8)	3.5	(2.6-4.8)
45 - 54	3.4	(2.6-4.4)	5.7	(4.6-7.0)	8.8	(7.4-10.3)
55 - 64	7.4	(6.3-8.6)	9.2	(7.9-10.7)	15.7	(14.0-17.4)
65 - 74	12.4	(10.9-14.2)	17.4	(15.4-19.7)	27.0	(24.7-29.5)
75 +	21.6	(19.4-24.1)	24.3	(21.9-27.0)	38.4	(35.5-41.3)
Gender						
Male	5.2	(4.7-5.8)	6.4	(5.7-7.2)	10.5	(9.6-11.4)
Female	5.5	(5.0-6.1)	8.9	(8.2-9.8)	13.2	(12.3-14.2)
Race/Ethnicity						
White non-Hispanic	6.7	(6.2-7.2)	8.5	(7.9-9.1)	13.7	(13.0-14.5)
Black non-Hispanic	-- ^d	-- ^d	5.5	(4.1-7.4)	5.7	(4.3-7.6)
Other non-Hispanic	-- ^d	-- ^d	4.6	(3.1-6.9)	5.3	(3.7-7.6)
Hispanic	-- ^d	-- ^d	-- ^d	-- ^d	4.2	(2.4-7.3)
Education						
Less than high school	3.1	(2.1-4.5)	9.8	(7.6-12.6)	11.6	(9.2-14.4)
High school graduate	5.9	(5.1-6.7)	8.1	(7.2-9.1)	12.8	(11.6-14.0)
Some college	5.0	(4.3-5.8)	8.0	(7.1-9.0)	11.6	(10.5-12.8)
College graduate	6.5	(5.8-7.3)	5.8	(5.1-6.5)	11.2	(10.3-12.2)
Household Income						
< \$20,000	3.8	(2.9-4.8)	8.8	(7.3-10.5)	11.2	(9.6-13.0)
\$20,000 - \$34,999	5.9	(5.0-6.9)	10.1	(8.8-11.5)	14.6	(13.1-16.3)
\$35,000 - \$49,999	5.5	(4.4-6.8)	8.7	(7.1-10.6)	13.2	(11.3-15.3)
\$50,000 - \$74,999	5.8	(4.8-7.0)	6.5	(5.4-7.9)	11.4	(9.9-13.1)
\$75,000 +	5.0	(4.2-5.8)	5.0	(4.2-6.0)	9.1	(8.0-10.3)

^a Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 12,724)

^b Among all adults, the proportion who reported ever being told by a doctor that they had a form of cancer other than skin cancer. (N = 12,734)

^c Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer or any other type of cancer. (N = 12,712)

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

Table 30: Diabetes 2013 Michigan BRFSS		
	Ever Told Diabetes^a	
	%	95% Confidence Interval
Total	10.4	(9.7-11.0)
Age		
18 – 24	1.8	(1.0-3.2)
25 – 34	2.0	(1.2-3.5)
35 – 44	5.0	(3.7-6.7)
45 – 54	10.0	(8.4-11.8)
55 – 64	16.1	(14.4-18.0)
65 – 74	21.6	(19.4-23.9)
75 +	22.4	(20.0-25.1)
Gender		
Male	11.0	(10.1-12.1)
Female	9.7	(8.9-10.6)
Race/Ethnicity		
White non-Hispanic	10.1	(9.4-10.8)
Black non-Hispanic	11.7	(9.6-14.2)
Other non-Hispanic	8.8	(6.2-12.2)
Hispanic	10.8	(7.3-15.6)
Education		
Less than high school	13.8	(11.0-17.0)
High school graduate	11.8	(10.7-13.0)
Some college	10.2	(9.2-11.4)
College graduate	6.9	(6.1-7.8)
Household Income		
< \$20,000	13.2	(11.3-15.3)
\$20,000 - \$34,999	13.6	(12.1-15.3)
\$35,000 - \$49,999	13.6	(11.5-16.0)
\$50,000 - \$74,999	8.2	(6.8-9.8)
\$75,000 +	5.3	(4.5-6.3)
^a Among all adults, the proportion who reported that they were ever told by a doctor that they had diabetes. Adults told they have prediabetes and women who had diabetes only during pregnancy were classified as not having been diagnosed. (N = 12,735)		

Table 31: Kidney Disease 2013 Michigan BRFSS		
	Ever Told Kidney Disease^a	
	%	95% Confidence Interval
Total	3.0	(2.6-3.4)
Age		
18 – 24	-- ^b	-- ^b
25 – 34	-- ^b	-- ^b
35 – 44	1.8	(1.1-2.8)
45 – 54	3.0	(2.0-4.3)
55 – 64	3.3	(2.7-4.2)
65 – 74	5.1	(4.2-6.2)
75 +	8.2	(6.7-10.2)
Gender		
Male	2.1	(1.8-2.6)
Female	3.8	(3.2-4.4)
Race/Ethnicity		
White non-Hispanic	3.1	(2.7-3.5)
Black non-Hispanic	3.4	(2.0-5.6)
Other non-Hispanic	1.0	(0.5-1.9)
Hispanic	-- ^b	-- ^b
Education		
Less than high school	-- ^b	-- ^b
High school graduate	3.5	(2.9-4.2)
Some college	2.9	(2.4-3.6)
College graduate	2.2	(1.8-2.7)
Household Income		
< \$20,000	3.7	(3.0-4.7)
\$20,000 - \$34,999	4.1	(3.2-5.1)
\$35,000 - \$49,999	3.2	(2.1-4.8)
\$50,000 - \$74,999	2.2	(1.6-3.1)
\$75,000 +	1.7	(1.2-2.4)
^a Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease. (N = 12,697)		
^b Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

Table 32: Depression 2013 Michigan BRFSS		
	Ever Told Depression^a	
	%	95% Confidence Interval
Total	21.3	(20.4-22.3)
Age		
18 – 24	15.5	(12.9-18.4)
25 – 34	22.3	(19.3-25.5)
35 – 44	24.0	(21.2-27.0)
45 – 54	23.2	(20.9-25.5)
55 – 64	26.5	(24.3-28.8)
65 – 74	19.7	(17.6-22.0)
75 +	13.3	(11.4-15.4)
Gender		
Male	17.3	(16.0-18.8)
Female	25.1	(23.8-26.5)
Race/Ethnicity		
White non-Hispanic	22.0	(21.0-23.1)
Black non-Hispanic	19.6	(16.5-23.1)
Other non-Hispanic	18.9	(14.9-23.6)
Hispanic	18.9	(13.4-26.0)
Education		
Less than high school	31.9	(27.5-36.5)
High school graduate	21.6	(20.0-23.4)
Some college	21.5	(19.9-23.3)
College graduate	15.3	(14.1-16.6)
Household Income		
< \$20,000	36.6	(33.6-39.7)
\$20,000 - \$34,999	23.2	(21.0-25.6)
\$35,000 - \$49,999	19.9	(17.4-22.7)
\$50,000 - \$74,999	16.8	(14.7-19.1)
\$75,000 +	13.5	(11.9-15.1)
^a Among all adults, the proportion who reported ever being told by a doctor that they had a depressive disorder including depression, major depression, dysthymia, or minor depression. (N = 12,704)		