Prevalence Estimates for Risk Factors and Health Indicators

State of Michigan

Selected Tables

Michigan Behavioral Risk Factor Survey

2015

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

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Introduction

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

In 2015, the total sample size of completed interviews for the core survey was 8,935 (land line = 4,215; cell phone = 4,720). 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 8,935. 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 2015 Michigan BRFS, the sample of land line telephone numbers that were utilized for data collection was selected using a list-assisted, random-digit-dialed methodology with a disproportionate stratification based on phone bank density, and whether or not the phone numbers were directory listed. The sample of cell phone numbers used within the 2015 Michigan BRFS data collection process was randomly selected from dedicated cellular telephone banks sorted on the basis of area code and exchange within the State of Michigan.

Iterative proportional fitting or raking was the weighting methodology used to make the 2015 Michigan BRFS data representative of the current Michigan adult population. Estimates based on this methodology were weighted to adjust for the probabilities of selection and a raking adjustment factor that adjusted for the distribution of Michigan adults by telephone source (land line vs. cell phone), detailed race/ethnicity, education level, marital status, age by gender, gender by race/ethnicity, age by race/ethnicity, and renter/owner status.

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

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

Due to the BRFSS methodology changes that took place in 2011, the estimates provided within the following tables should only be compared to Michigan BRFSS estimates from 2011-2014 and not to Michigan BRFSS estimates from years prior to 2011.

If you have any questions regarding any of the estimates within the following tables, please contact Chris Fussman at FussmanC@michigan.gov.

Table 1: Health Status 2015 Michigan BRFS		
	General Health, Fair or Poor[a]	
	%	95% Confidence Interval
Total	**17.7**	**(16.7-18.7)**
Age		
18 – 24	8.6	(6.4-11.4)
25 – 34	12.8	(10.4-15.6)
35 – 44	14.5	(12.2-17.2)
45 – 54	20.9	(18.4-23.6)
55 – 64	23.2	(20.9-25.7)
65 – 74	21.3	(18.9-23.9)
75 +	23.7	(20.7-27.1)
Gender		
Male	17.1	(15.7-18.7)
Female	18.1	(16.8-19.5)
Race/Ethnicity		
White non-Hispanic	16.0	(15.0-17.1)
Black non-Hispanic	25.8	(22.5-29.4)
Other non-Hispanic	17.2	(13.1-22.2)
Hispanic	21.2	(15.3-28.6)
Education		
Less than high school	33.4	(28.6-38.6)
High school graduate	21.7	(19.9-23.6)
Some college	16.3	(14.8-17.9)
College graduate	7.4	(6.5-8.4)
Household Income		
< $20,000	36.4	(33.0-39.9)
$20,000 - $34,999	24.6	(21.9-27.6)
$35,000 - $49,999	15.3	(13.0-18.0)
$50,000 - $74,999	10.1	(8.3-12.2)
$75,000 +	6.8	(5.7-8.1)

[a] Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 8,920)

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

Table 2: Health Status on at Least 14 Days in the Past Month
2015 Michigan BRFS

	Poor Physical Health[a]		Poor Mental Health[b]		Activity Limitation[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**13.0**	**(12.1-13.9)**	**11.9**	**(11.0-12.8)**	**9.0**	**(8.3-9.8)**
Age						
18 – 24	5.4	(3.6-8.0)	13.1	(10.3-16.6)	4.7	(3.1-7.2)
25 – 34	9.3	(7.3-11.9)	14.5	(12.1-17.3)	7.5	(5.7-9.7)
35 – 44	9.7	(7.8-12.0)	13.4	(11.2-16.1)	6.9	(5.2-9.0)
45 – 54	16.2	(14.0-18.7)	13.9	(11.8-16.3)	12.9	(10.8-15.3)
55 – 64	17.3	(15.3-19.5)	11.7	(10.0-13.6)	11.5	(9.9-13.3)
65 – 74	17.1	(14.9-19.5)	7.3	(6.0-9.0)	9.1	(7.6-11.0)
75 +	16.3	(13.8-19.1)	5.7	(4.1-7.8)	9.5	(7.5-11.9)
Gender						
Male	11.8	(10.7-13.1)	9.4	(8.3-10.7)	7.9	(6.9-8.9)
Female	14.1	(12.9-15.3)	14.2	(12.9-15.5)	10.1	(9.0-11.2)
Race/Ethnicity						
White non-Hispanic	12.8	(11.9-13.8)	10.8	(9.9-11.8)	8.4	(7.7-9.3)
Black non-Hispanic	13.6	(11.2-16.3)	15.0	(12.3-18.1)	11.6	(9.3-14.4)
Other non-Hispanic	12.6	(9.2-17.2)	13.7	(10.1-18.4)	9.9	(6.8-14.3)
Hispanic	14.2	(9.3-21.0)	20.3	(14.5-27.6)	8.9	(5.1-15.1)
Education						
Less than high school	21.4	(17.4-26.0)	20.4	(16.2-25.3)	17.2	(13.5-21.6)
High school graduate	15.9	(14.3-17.6)	13.2	(11.7-14.9)	10.3	(9.0-11.7)
Some college	12.5	(11.2-13.9)	12.0	(10.7-13.5)	8.8	(7.8-10.1)
College graduate	6.3	(5.4-7.3)	6.2	(5.3-7.2)	4.0	(3.3-4.9)
Household Income						
< $20,000	24.9	(21.9-28.1)	24.0	(21.0-27.3)	21.9	(19.0-25.1)
$20,000 - $34,999	16.0	(13.8-18.5)	15.0	(12.8-17.5)	10.5	(8.7-12.7)
$35,000 - $49,999	13.1	(10.9-15.7)	9.4	(7.4-11.7)	8.3	(6.6-10.5)
$50,000 - $74,999	9.7	(8.0-11.8)	9.2	(7.3-11.5)	5.0	(3.8-6.7)
$75,000 +	6.0	(5.0-7.2)	5.6	(4.5-6.8)	3.0	(2.3-3.9)

[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 = 8,805)
[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 = 8,834)
[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 = 8,860)

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

Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations 2015 Michigan BRFS						
	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	**4.2**	**(3.9-4.4)**	**3.8**	**(3.6-4.0)**	**2.8**	**(2.6-3.0)**
Age						
18 - 24	2.4	(1.8-3.0)	4.7	(4.0-5.4)	1.8	(1.3-2.4)
25 - 34	3.2	(2.6-3.7)	4.5	(3.9-5.1)	2.3	(1.8-2.8)
35 - 44	3.2	(2.7-3.7)	4.1	(3.5-4.7)	2.2	(1.8-2.7)
45 - 54	5.1	(4.5-5.7)	4.4	(3.9-5.0)	3.8	(3.2-4.4)
55 - 64	5.3	(4.7-5.8)	3.7	(3.2-4.1)	3.4	(2.9-3.8)
65 - 74	5.3	(4.7-5.8)	2.3	(1.9-2.7)	2.8	(2.4-3.2)
75 +	5.0	(4.3-5.6)	1.9	(1.5-2.4)	2.8	(2.3-3.4)
Gender						
Male	3.8	(3.5-4.1)	3.2	(2.9-3.4)	2.4	(2.2-2.7)
Female	4.5	(4.2-4.8)	4.4	(4.1-4.7)	3.1	(2.8-3.4)
Race/Ethnicity						
White non-Hispanic	4.1	(3.8-4.3)	3.5	(3.3-3.7)	2.6	(2.4-2.8)
Black non-Hispanic	4.6	(3.9-5.3)	4.6	(3.9-5.3)	3.6	(3.0-4.3)
Other non-Hispanic	4.0	(2.9-5.0)	4.5	(3.4-5.6)	2.9	(2.0-3.9)
Hispanic	4.5	(3.0-6.0)	5.6	(4.2-7.1)	3.1	(1.7-4.5)
Education						
Less than high school	6.6	(5.5-7.7)	5.8	(4.7-6.9)	4.9	(3.8-5.9)
High school graduate	4.9	(4.4-5.3)	4.1	(3.7-4.5)	3.0	(2.7-3.4)
Some college	4.1	(3.8-4.5)	3.9	(3.6-4.2)	2.8	(2.5-3.1)
College graduate	2.3	(2.1-2.6)	2.4	(2.2-2.7)	1.5	(1.3-1.7)
Household Income						
< $20,000	7.6	(6.7-8.4)	7.0	(6.2-7.8)	6.3	(5.5-7.1)
$20,000 - $34,999	5.1	(4.5-5.6)	4.6	(4.0-5.1)	3.3	(2.8-3.8)
$35,000 - $49,999	4.1	(3.5-4.7)	3.0	(2.5-3.5)	2.5	(2.0-3.0)
$50,000 - $74,999	3.1	(2.6-3.6)	3.0	(2.6-3.5)	1.8	(1.4-2.2)
$75,000 +	2.2	(1.9-2.5)	2.3	(2.1-2.6)	1.1	(0.9-1.3)

[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 = 8,805)
[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 = 8,834)
[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 = 8,860)

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

Table 4: Disability 2015 Michigan BRFS						
	Total Disability[a]		**Any Activity Limitation**[b]		**Used Special Equipment**[c]	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**25.1**	**(24.0-26.3)**	**22.5**	**(21.5-23.6)**	**10.0**	**(9.3-10.7)**
Age						
18 - 24	11.0	(8.4-14.3)	10.3	(7.8-13.6)	2.3	(1.3-4.1)
25 - 34	13.9	(11.6-16.7)	13.0	(10.7-15.7)	3.8	(2.6-5.5)
35 - 44	18.4	(15.8-21.4)	16.8	(14.3-19.6)	4.5	(3.2-6.2)
45 - 54	28.9	(26.1-31.9)	26.8	(24.0-29.7)	11.1	(9.3-13.2)
55 - 64	32.5	(30.0-35.1)	30.5	(28.0-33.0)	13.2	(11.5-15.2)
65 - 74	34.9	(32.1-37.7)	30.4	(27.7-33.1)	15.5	(13.3-17.9)
75 +	42.8	(39.2-46.4)	33.1	(29.7-36.7)	25.9	(22.9-29.2)
Gender						
Male	23.6	(22.0-25.3)	21.0	(19.5-22.6)	9.6	(8.5-10.7)
Female	26.5	(25.0-28.1)	24.0	(22.5-25.5)	10.4	(9.4-11.4)
Race/Ethnicity						
White non-Hispanic	24.9	(23.7-26.2)	22.6	(21.4-23.8)	9.3	(8.6-10.1)
Black non-Hispanic	27.4	(24.0-31.1)	23.2	(20.1-26.7)	14.2	(11.7-17.1)
Other non-Hispanic	23.0	(18.3-28.6)	20.1	(15.7-25.4)	8.4	(5.6-12.4)
Hispanic	22.0	(16.0-29.6)	20.9	(14.9-28.4)	10.0	(6.1-16.0)
Education						
Less than high school	41.1	(35.8-46.7)	35.9	(30.8-41.3)	18.7	(15.1-22.8)
High school graduate	25.7	(23.8-27.7)	23.1	(21.3-25.0)	10.7	(9.5-12.1)
Some college	25.5	(23.7-27.4)	23.1	(21.4-25.0)	9.6	(8.5-10.9)
College graduate	16.8	(15.4-18.2)	15.0	(13.7-16.3)	5.6	(4.9-6.5)
Household Income						
< $20,000	47.4	(43.7-51.0)	43.4	(39.8-47.1)	21.0	(18.3-23.9)
$20,000 - $34,999	30.8	(27.9-33.7)	27.4	(24.7-30.3)	12.8	(10.9-14.8)
$35,000 - $49,999	24.9	(21.9-28.1)	22.5	(19.7-25.6)	9.6	(7.8-11.9)
$50,000 - $74,999	16.1	(13.9-18.6)	14.6	(12.5-17.1)	5.2	(4.0-6.8)
$75,000 +	13.6	(12.1-15.3)	12.1	(10.6-13.8)	3.7	(2.9-4.6)

[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 = 8,727)
[b] Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems. (N = 8,731)
[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 = 8,745)

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

Table 5: Weight Status
2015 Michigan BRFS

	Obese[a]		Overweight[b]		Healthy Weight[c]		Underweight[d]	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**31.2**	**(29.9-32.4)**	**35.1**	**(33.8-36.4)**	**32.1**	**(30.9-33.4)**	**1.6**	**(1.3-2.0)**
Age								
18 - 24	16.3	(13.1-20.2)	24.9	(21.0-29.2)	53.4	(48.7-58.1)	5.3	(3.6-7.8)
25 - 34	29.9	(26.3-33.6)	34.3	(30.6-38.3)	34.7	(31.1-38.5)	--[e]	--[e]
35 - 44	37.9	(34.4-41.7)	32.8	(29.3-36.5)	28.4	(25.2-31.9)	--[e]	--[e]
45 - 54	36.0	(33.0-39.1)	35.5	(32.5-38.7)	27.3	(24.6-30.1)	1.2	(0.7-2.0)
55 - 64	34.7	(32.2-37.4)	38.9	(36.3-41.6)	25.7	(23.4-28.1)	0.7	(0.4-1.2)
65 - 74	36.8	(34.0-39.8)	35.9	(33.2-38.8)	26.3	(23.7-29.0)	--[e]	--[e]
75 +	20.6	(17.8-23.8)	45.2	(41.5-49.0)	32.1	(28.9-35.6)	--[e]	--[e]
Gender								
Male	31.7	(29.9-33.5)	40.3	(38.4-42.3)	27.1	(25.4-29.0)	0.9	(0.6-1.4)
Female	30.6	(29.0-32.4)	29.8	(28.1-31.5)	37.2	(35.4-39.0)	2.4	(1.9-3.0)
Race/Ethnicity								
White non-Hispanic	29.8	(28.5-31.2)	35.7	(34.3-37.2)	32.9	(31.5-34.3)	1.5	(1.2-2.0)
Black non-Hispanic	40.2	(36.2-44.4)	32.7	(28.9-36.6)	26.1	(22.5-30.1)	--[e]	--[e]
Other non-Hispanic	22.7	(17.9-28.3)	30.8	(25.0-37.2)	41.9	(35.5-48.6)	--[e]	--[e]
Hispanic	41.0	(33.2-49.3)	29.4	(22.5-37.4)	27.2	(20.5-35.2)	--[e]	--[e]
Education								
< High school	31.8	(26.8-37.3)	36.6	(31.3-42.3)	29.5	(24.5-35.1)	2.0	(1.1-3.7)
High school graduate	34.2	(31.9-36.6)	33.2	(31.0-35.5)	30.3	(28.1-32.6)	2.3	(1.6-3.3)
Some college	32.1	(30.0-34.2)	34.9	(32.7-37.1)	31.6	(29.5-33.9)	1.4	(0.9-2.2)
College graduate	25.9	(24.2-27.8)	36.9	(35.0-38.9)	36.2	(34.2-38.2)	1.0	(0.6-1.4)
Household Income								
< $20,000	35.0	(31.5-38.7)	30.9	(27.4-34.6)	31.0	(27.6-34.6)	3.1	(2.1-4.7)
$20,000 - $34,999	35.5	(32.3-38.8)	34.1	(31.0-37.3)	29.1	(26.2-32.2)	1.4	(0.8-2.3)
$35,000 - $49,999	34.0	(30.6-37.6)	34.7	(31.2-38.4)	31.1	(27.6-34.8)	--[e]	--[e]
$50,000 - $74,999	33.5	(30.3-36.9)	35.5	(32.2-39.0)	29.8	(26.6-33.2)	--[e]	--[e]
$75,000 +	27.0	(24.8-29.2)	39.2	(36.7-41.7)	32.8	(30.5-35.2)	1.1	(0.7-1.8)

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 = 8,329

[a] Among all adults, the proportion of respondents whose BMI was greater than or equal to 30.0.
[b] Among all adults, the proportion of respondents whose BMI was greater than or equal to 25.0, but less than 30.0.
[c] Among all adults, the proportion of respondents whose BMI was greater than or equal to 18.5, but less than 25.0.
[d] Among all adults, the proportion of respondents whose BMI was less than 18.5.
[e] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 6: Health Care Coverage 2015 Michigan BRFS		
	No Health Care Coverage[a] (Among 18 - 64 year olds)	
	%	95% Confidence Interval
Total	**12.0**	**(10.9-13.1)**
Age		
18 - 24	14.5	(11.4-18.3)
25 - 34	16.0	(13.3-19.1)
35 - 44	12.7	(10.3-15.6)
45 - 54	11.0	(9.1-13.4)
55 - 64	6.8	(5.5-8.3)
65 - 74	---	---
75 +	---	---
Gender		
Male	14.2	(12.6-16.0)
Female	9.7	(8.4-11.3)
Race/Ethnicity		
White non-Hispanic	10.9	(9.7-12.2)
Black non-Hispanic	12.5	(9.8-15.8)
Other non-Hispanic	14.2	(9.9-19.8)
Hispanic	20.7	(14.4-28.8)
Education		
Less than high school	20.9	(15.5-27.6)
High school graduate	16.4	(14.3-18.8)
Some college	10.9	(9.4-12.7)
College graduate	4.6	(3.7-5.8)
Household Income		
< $20,000	17.1	(14.0-20.8)
$20,000 - $34,999	17.1	(14.1-20.7)
$35,000 - $49,999	11.6	(8.9-14.9)
$50,000 - $74,999	11.5	(8.9-14.7)
$75,000 +	5.1	(3.9-6.7)

[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 = 5,965)

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

Table 7: Health Care Coverage Type[a]											
2015 Michigan BRFS											
	Private Insurance		Medicaid Only		Medicare Only		Both Medicaid and Medicare		Healthy Michigan Plan		No Health Care Coverage	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	42.4	(41.1-43.8)	8.6	(7.8-9.5)	20.6	(19.7-21.5)	15.0	(14.1-16.0)	2.9	(2.4-3.4)	10.5	(9.6-11.5)
Age											
18 - 24	45.2	(40.4-50.2)	15.7	(12.4-19.8)	3.9	(2.2-6.8)	16.0	(12.9-19.7)	--[e]	--[e]	16.6	(13.1-20.8)
25 - 34	47.7	(43.7-51.7)	15.0	(12.3-18.1)	2.4	(1.3-4.3)	13.5	(11.1-16.4)	3.8	(2.5-5.6)	17.6	(14.7-21.0)
35 - 44	54.3	(50.6-58.0)	10.4	(8.3-12.9)	2.4	(1.6-3.7)	16.5	(13.8-19.4)	3.1	(2.1-4.7)	13.3	(10.7-16.3)
45 - 54	55.3	(52.1-58.4)	7.2	(5.7-9.2)	5.2	(3.9-6.8)	15.5	(13.5-17.9)	5.4	(3.9-7.5)	11.4	(9.3-13.8)
55 - 64	56.5	(53.8-59.2)	5.3	(4.2-6.8)	10.5	(8.9-12.5)	17.8	(15.9-19.9)	2.8	(1.9-4.1)	7.0	(5.7-8.6)
65 - 74	5.4	(4.3-6.7)	3.4	(2.5-4.7)	78.3	(75.7-80.8)	10.7	(8.8-12.9)	--[e]	--[e]	2.1	(1.2-3.5)
75 +	4.6	(3.2-6.5)	1.8	(1.2-2.7)	78.3	(74.8-81.4)	11.9	(9.6-14.7)	--[e]	--[e]	3.1	(1.7-5.5)
Gender											
Male	44.4	(42.5-46.5)	5.9	(5.0-7.0)	18.8	(17.5-20.2)	15.7	(14.3-17.2)	2.4	(1.8-3.3)	12.7	(11.3-14.2)
Female	40.6	(38.8-42.3)	11.1	(9.9-12.5)	22.3	(21.0-23.6)	14.3	(13.1-15.6)	3.3	(2.6-4.0)	8.5	(7.3-9.8)
Race/Ethnicity											
White non-Hispanic	44.8	(43.4-46.3)	6.1	(5.4-7.0)	22.5	(21.4-23.5)	14.7	(13.7-15.8)	2.5	(2.0-3.1)	9.3	(8.3-10.4)
Black non-Hispanic	29.0	(25.5-32.8)	20.4	(17.1-24.2)	15.5	(13.0-18.4)	17.9	(14.9-21.3)	5.2	(3.5-7.7)	12.0	(9.5-15.1)
Other non-Hispanic	48.7	(42.1-55.4)	9.9	(6.8-14.3)	12.6	(9.1-17.2)	12.7	(9.2-17.2)	1.8	(0.9-3.5)	14.3	(10.1-19.8)
Hispanic	36.8	(29.4-44.8)	17.1	(11.9-24.0)	8.2	(5.1-12.8)	14.5	(9.8-21.1)	--[e]	--[e]	20.3	(14.2-28.3)
Education											
< High school	15.3	(11.5-20.1)	20.1	(15.7-25.3)	26.4	(22.0-31.4)	13.6	(10.4-17.7)	6.1	(3.7-9.9)	18.5	(14.1-23.8)
High school	34.3	(32.0-36.7)	10.4	(9.0-12.0)	24.5	(22.7-26.3)	13.9	(12.2-15.6)	3.3	(2.4-4.4)	13.7	(11.9-15.6)
Some college	46.7	(44.4-49.0)	7.9	(6.8-9.2)	18.2	(16.8-19.8)	15.1	(13.5-16.9)	2.4	(1.8-3.2)	9.7	(8.3-11.2)
College graduate	58.7	(56.7-60.6)	2.2	(1.7-2.8)	16.6	(15.5-17.9)	16.8	(15.3-18.4)	1.6	(1.2-2.2)	4.1	(3.3-5.1)
Household Income											
< $20,000	11.6	(9.6-14.0)	25.5	(22.2-29.0)	20.3	(17.7-23.1)	17.8	(15.1-20.8)	8.8	(6.9-11.3)	16.0	(13.2-19.2)
$20,000 - $34,999	28.1	(25.2-31.3)	13.7	(11.3-16.5)	30.1	(27.4-33.0)	11.5	(9.5-14.0)	3.4	(2.3-4.9)	13.1	(10.8-15.8)
$35,000 - $49,999	43.3	(39.6-47.1)	5.4	(3.8-7.5)	27.8	(24.9-31.0)	11.3	(9.2-13.8)	--[e]	--[e]	9.7	(7.5-12.3)
$50,000 - $74,999	56.6	(53.1-60.0)	2.0	(1.2-3.3)	16.4	(14.4-18.6)	14.6	(12.3-17.2)	--[e]	--[e]	10.0	(7.7-12.8)
$75,000 +	66.6	(64.2-68.9)	0.7	(0.4-1.3)	9.3	(8.3-10.4)	17.9	(16.1-19.9)	0.7	(0.4-1.4)	4.8	(3.6-6.2)

[a] Among all adults, the proportion who reported currently having each of the above health care coverage types. (N = 8,452)
[e] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 8: Health Care Access 2015 Michigan BRFS				
	No Personal Health Care Provider[a]		No Health Care Access During Past 12 Months Due to Cost[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**14.8**	**(13.8-15.8)**	**12.7**	**(11.8-13.7)**
Age				
18 - 24	28.1	(24.3-32.3)	12.7	(9.9-16.1)
25 - 34	28.3	(24.9-31.9)	17.2	(14.4-20.3)
35 - 44	16.9	(14.1-20.0)	17.3	(14.5-20.4)
45 - 54	11.4	(9.5-13.6)	15.0	(12.9-17.5)
55 - 64	7.2	(6.0-8.8)	11.0	(9.3-12.9)
65 - 74	5.0	(3.8-6.6)	6.2	(4.9-7.8)
75 +	3.6	(2.4-5.3)	5.0	(3.6-6.9)
Gender				
Male	20.2	(18.6-21.9)	12.1	(10.8-13.5)
Female	9.7	(8.6-10.9)	13.3	(12.0-14.7)
Race/Ethnicity				
White non-Hispanic	13.3	(12.3-14.4)	11.3	(10.3-12.3)
Black non-Hispanic	18.1	(15.0-21.7)	16.6	(13.8-19.8)
Other non-Hispanic	22.5	(17.6-28.2)	14.1	(9.9-19.7)
Hispanic	21.5	(15.2-29.6)	22.8	(16.7-30.3)
Education				
Less than high school	19.4	(15.1-24.5)	18.9	(14.8-23.8)
High school graduate	16.5	(14.7-18.5)	13.7	(12.1-15.5)
Some college	15.3	(13.6-17.1)	14.1	(12.6-15.8)
College graduate	9.9	(8.7-11.2)	6.5	(5.6-7.6)
Household Income				
< $20,000	20.2	(17.2-23.5)	23.5	(20.5-26.8)
$20,000 - $34,999	19.1	(16.4-22.1)	18.5	(16.0-21.4)
$35,000 - $49,999	12.2	(9.8-15.0)	12.2	(9.9-14.8)
$50,000 - $74,999	13.3	(10.9-16.2)	8.7	(6.9-11.0)
$75,000 +	10.5	(8.9-12.3)	4.7	(3.6-6.0)

[a] Among all adults, the proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider. (N = 8,893)
[b] Among all adults, the proportion who reported that in the past 12 months, they could not see a doctor when they needed to due to the cost. (N = 8,917)

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

Table 9: No Leisure Time Physical Activity
2015 Michigan BRFS

	No Leisure Time Physical Activity[a]	
	%	**95% Confidence Interval**
Total	**25.5**	**(24.3-26.7)**
Age		
18 – 24	17.7	(14.2-21.9)
25 – 34	25.3	(21.9-29.0)
35 – 44	21.9	(18.8-25.3)
45 – 54	27.8	(24.9-30.8)
55 – 64	26.1	(23.7-28.7)
65 – 74	26.3	(23.8-29.0)
75 +	36.4	(32.8-40.1)
Gender		
Male	23.7	(21.9-25.5)
Female	27.2	(25.6-28.9)
Race/Ethnicity		
White non-Hispanic	24.2	(23.0-25.6)
Black non-Hispanic	30.2	(26.5-34.1)
Other non-Hispanic	25.7	(19.7-32.7)
Hispanic	33.2	(25.9-41.6)
Education		
Less than high school	37.8	(32.4-43.6)
High school graduate	31.8	(29.6-34.1)
Some college	24.1	(22.2-26.1)
College graduate	14.2	(12.8-15.6)
Household Income		
< $20,000	33.6	(30.1-37.4)
$20,000 - $34,999	34.0	(30.9-37.3)
$35,000 - $49,999	25.6	(22.5-29.1)
$50,000 - $74,999	21.7	(19.0-24.8)
$75,000 +	16.6	(14.7-18.6)

[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 =8,391)

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

Table 10: Aerobic Physical Activity and Muscle Strengthening **2015 Michigan BRFS**				
	Adequate Aerobic Physical Activity (≥ 150 minutes / week)[a]		**Adequate Muscle Strengthening (≥ 2 days / week)**[b]	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**52.1**	**(50.7-53.4)**	**29.3**	**(28.0-30.5)**
Age				
18 – 24	55.0	(50.1-59.7)	42.9	(38.3-47.7)
25 – 34	50.5	(46.4-54.6)	35.3	(31.6-39.3)
35 – 44	50.7	(46.8-54.5)	31.7	(28.3-35.4)
45 – 54	47.5	(44.3-50.6)	24.4	(21.9-27.2)
55 – 64	54.6	(51.8-57.3)	26.3	(23.9-28.7)
65 – 74	55.1	(52.1-58.1)	22.8	(20.4-25.5)
75 +	53.9	(50.1-57.7)	19.8	(17.1-22.9)
Gender				
Male	53.1	(51.0-55.1)	32.8	(30.9-34.8)
Female	51.1	(49.3-52.9)	25.9	(24.3-27.5)
Race/Ethnicity				
White non-Hispanic	53.7	(52.2-55.2)	28.1	(26.8-29.5)
Black non-Hispanic	44.3	(40.1-48.6)	33.1	(29.1-37.4)
Other non-Hispanic	54.4	(47.5-61.1)	35.1	(29.1-41.6)
Hispanic	41.9	(34.0-50.2)	33.8	(26.5-42.0)
Education				
Less than high school	43.9	(37.9-50.0)	24.2	(19.3-30.0)
High school graduate	47.8	(45.3-50.3)	22.8	(20.7-24.9)
Some college	53.0	(50.7-55.4)	31.7	(29.5-33.9)
College graduate	59.2	(57.1-61.2)	35.8	(33.8-37.8)
Household Income				
< $20,000	44.8	(41.0-48.6)	25.0	(21.8-28.5)
$20,000 - $34,999	48.4	(45.0-51.9)	25.7	(22.7-29.0)
$35,000 - $49,999	51.2	(47.4-55.1)	26.9	(23.6-30.4)
$50,000 - $74,999	53.9	(50.3-57.4)	31.0	(27.8-34.5)
$75,000 +	58.9	(56.3-61.4)	34.9	(32.6-37.4)

[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. (N = 8,118)
[b] Among all adults, the proportion who reported that they do muscle strengthening activities on two or more days per week. (N = 8,275)

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

Table 11: Adequate Physical Activity 2015 Michigan BRFS		
Demographic Characteristics	**Adequate Physical Activity[a]**	
	%	**95% Confidence Interval**
Total	**19.5**	**(18.5-20.7)**
Age		
18 - 24	27.8	(23.7-32.3)
25 - 34	23.4	(20.2-27.0)
35 - 44	18.6	(15.8-21.7)
45 - 54	15.7	(13.6-18.0)
55 - 64	19.1	(17.0-21.2)
65 - 74	17.0	(14.9-19.4)
75 +	14.9	(12.4-17.7)
Gender		
Male	21.0	(19.4-22.8)
Female	18.1	(16.8-19.6)
Race/Ethnicity		
White/Non-Hispanic	19.3	(18.1-20.5)
Black/Non-Hispanic	21.2	(17.8-25.1)
Other/Non-Hispanic	20.8	(16.0-26.6)
Hispanic	18.8	(13.2-26.0)
Education		
Less than high school	14.1	(10.2-19.2)
High school graduate	15.1	(13.3-17.0)
Some college	21.4	(19.5-23.4)
College graduate	24.4	(22.7-26.3)
Household Income		
< $20,000	13.8	(11.3-16.6)
$20,000 - $34,999	17.0	(14.6-19.8)
$35,000 - $49,999	17.5	(14.8-20.7)
$50,000 - $74,999	21.6	(18.7-24.9)
$75,000 +	24.0	(21.9-26.2)

[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 = 8,037)

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

Table 12: Fruit and Vegetable Consumption
2015 Michigan BRFS

	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	**39.7**	**(38.4-41.1)**	**24.7**	**(23.5-26.0)**	**14.4**	**(13.5-15.3)**
Age						
18 – 24	49.9	(45.1-54.6)	36.4	(31.9-41.1)	9.4	(7.1-12.3)
25 – 34	44.8	(40.8-48.8)	24.4	(21.1-28.1)	16.0	(13.3-19.0)
35 – 44	38.9	(35.2-42.6)	23.4	(20.3-26.8)	15.9	(13.3-18.8)
45 – 54	43.1	(40.0-46.3)	24.2	(21.5-27.2)	13.9	(11.9-16.1)
55 – 64	35.5	(32.9-38.1)	21.0	(18.8-23.3)	16.6	(14.8-18.6)
65 – 74	35.6	(32.8-38.5)	24.2	(21.7-26.9)	13.3	(11.4-15.4)
75 +	26.0	(22.7-29.7)	20.8	(17.6-24.5)	14.0	(11.7-16.7)
Gender						
Male	45.4	(43.4-47.5)	28.8	(26.9-30.7)	10.4	(9.2-11.7)
Female	34.4	(32.6-36.2)	20.9	(19.4-22.5)	18.2	(16.9-19.6)
Race/Ethnicity						
White non-Hispanic	38.9	(37.4-40.4)	22.9	(21.7-24.3)	13.8	(12.9-14.8)
Black non-Hispanic	43.6	(39.4-47.8)	35.1	(31.0-39.4)	16.5	(13.7-19.7)
Other non-Hispanic	41.0	(34.5-47.9)	22.3	(17.2-28.4)	14.0	(10.3-18.9)
Hispanic	41.5	(33.6-49.9)	29.8	(22.7-38.2)	18.3	(13.0-25.3)
Education						
Less than high school	49.3	(43.3-55.2)	37.0	(31.4-43.0)	11.9	(8.7-16.0)
High school graduate	44.0	(41.6-46.5)	31.1	(28.8-33.5)	10.2	(8.9-11.7)
Some college	39.3	(37.1-41.6)	22.5	(20.6-24.6)	14.5	(13.0-16.2)
College graduate	31.1	(29.1-33.0)	15.4	(13.9-17.0)	20.5	(18.9-22.2)
Household Income						
< $20,000	47.7	(43.9-51.5)	32.7	(29.2-36.4)	13.4	(11.1-16.1)
$20,000 - $34,999	41.1	(37.8-44.5)	28.7	(25.7-31.8)	14.2	(12.1-16.6)
$35,000 - $49,999	37.3	(33.6-41.2)	23.4	(20.2-27.0)	13.4	(11.1-16.1)
$50,000 - $74,999	39.1	(35.7-42.7)	22.9	(20.0-26.2)	14.2	(11.9-16.9)
$75,000 +	36.4	(34.0-38.9)	17.8	(15.8-20.0)	16.7	(15.0-18.6)

[a] Among all adults, the proportion whose total reported consumption of fruits (including juice) was less than one time per day (N = 8,250)
[b] Among all adults, the proportion whose total reported consumption of vegetables was less than one time per day. (N = 8,155)
[c] Among all adults, the proportion whose total reported consumption of fruits (including juice) and vegetables was five or more times per day. (N = 8,432)

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

Table 13: Median Fruit and Vegetable Intake Per Day 2015 Michigan BRFS				
	Median Fruit Intake (times / day)[a]		**Median Vegetable Intake (times / day)[b]**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**1.0**	**(0.9-1.1)**	**1.6**	**(1.5-1.7)**
Age				
18 – 24	1.0	(0.8-1.1)	1.3	(1.2-1.4)
25 – 34	1.0	(0.9-1.1)	1.5	(1.4-1.6)
35 – 44	1.0	(0.9-1.1)	1.6	(1.5-1.7)
45 – 54	1.0	(0.9-1.1)	1.6	(1.5-1.7)
55 – 64	1.0	(0.9-1.1)	1.7	(1.6-1.8)
65 – 74	1.1	(1.0-1.2)	1.6	(1.5-1.7)
75 +	1.3	(1.1-1.4)	1.6	(1.5-1.7)
Gender				
Male	1.0	(0.9-1.1)	1.4	(1.3-1.5)
Female	1.1	(1.0-1.2)	1.7	(1.6-1.8)
Race/Ethnicity				
White non-Hispanic	1.0	(0.9-1.1)	1.6	(1.5-1.7)
Black non-Hispanic	1.0	(0.9-1.1)	1.3	(1.2-1.4)
Other non-Hispanic	1.0	(0.9-1.1)	1.6	(1.4-1.7)
Hispanic	1.0	(0.9-1.1)	1.6	(1.3-1.8)
Education				
Less than high school	0.9	(0.7-1.0)	1.3	(1.1-1.4)
High school graduate	1.0	(0.9-1.1)	1.4	(1.3-1.5)
Some college	1.0	(0.9-1.1)	1.6	(1.5-1.7)
College graduate	1.1	(1.0-1.2)	1.9	(1.8-2.0)
Household Income				
< $20,000	1.0	(0.9-1.1)	1.4	(1.3-1.5)
$20,000 - $34,999	1.0	(0.9-1.1)	1.4	(1.3-1.5)
$35,000 - $49,999	1.1	(1.0-1.2)	1.5	(1.4-1.6)
$50,000 - $74,999	1.0	(0.9-1.1)	1.6	(1.4-1.6)
$75,000 +	1.0	(0.9-1.1)	1.7	(1.6-1.8)

[a] 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 = 8,250)
[b] 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 = 8,155)

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

	Table 14: Cigarette Smoking 2015 Michigan BRFS					
	Current Smoking[a]		**Former Smoking[b]**		**Never Smoked**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**20.7**	**(19.6-21.9)**	**26.3**	**(25.2-27.4)**	**53.0**	**(51.7-54.3)**
Age						
18 – 24	15.6	(12.5-19.3)	5.3	(3.7-7.6)	79.1	(75.1-82.6)
25 – 34	29.6	(26.0-33.4)	18.3	(15.5-21.4)	52.1	(48.3-56.0)
35 – 44	25.6	(22.3-29.2)	20.7	(17.8-23.9)	53.7	(49.9-57.4)
45 – 54	26.4	(23.5-29.5)	24.0	(21.5-26.7)	49.5	(46.4-52.6)
55 – 64	19.9	(17.8-22.2)	33.6	(31.2-36.2)	46.5	(43.8-49.1)
65 – 74	12.3	(10.5-14.4)	45.4	(42.5-48.3)	42.4	(39.5-45.2)
75 +	7.7	(5.8-10.2)	45.4	(41.7-49.0)	47.0	(43.3-50.6)
Gender						
Male	22.4	(20.7-24.2)	27.4	(25.8-29.2)	50.1	(48.1-52.1)
Female	19.1	(17.6-20.6)	25.2	(23.8-26.7)	55.7	(53.9-57.5)
Race/Ethnicity						
White non-Hispanic	19.8	(18.5-21.1)	28.7	(27.4-30.0)	51.6	(50.1-53.0)
Black non-Hispanic	26.0	(22.4-30.1)	18.7	(15.9-21.9)	55.3	(51.1-59.3)
Other non-Hispanic	25.1	(20.0-31.2)	15.8	(12.1-20.4)	59.0	(52.7-65.1)
Hispanic	19.3	(13.4-26.9)	17.0	(12.0-23.6)	63.7	(55.6-71.1)
Education						
Less than high school	40.3	(34.8-46.1)	26.0	(21.8-30.7)	33.7	(28.4-39.4)
High school graduate	25.8	(23.7-27.9)	28.7	(26.6-30.8)	45.6	(43.2-48.0)
Some college	19.6	(17.8-21.5)	26.4	(24.6-28.4)	54.0	(51.7-56.2)
College graduate	7.3	(6.3-8.4)	23.4	(21.8-25.1)	69.3	(67.5-71.1)
Household Income						
< $20,000	35.5	(31.9-39.2)	23.1	(20.3-26.1)	41.5	(37.9-45.2)
$20,000 - $34,999	28.2	(25.2-31.5)	29.1	(26.3-32.0)	42.7	(39.5-46.0)
$35,000 - $49,999	21.8	(18.5-25.5)	29.2	(26.1-32.6)	49.0	(45.3-52.7)
$50,000 - $74,999	18.3	(15.7-21.3)	27.8	(24.9-31.0)	53.8	(50.4-57.3)
$75,000 +	10.9	(9.3-12.7)	25.3	(23.3-27.5)	63.8	(61.4-66.2)

[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 = 8,652)
[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 = 8,652)

Table 15: Current Smokers Who Attempted to Quit
2015 Michigan BRFS

	Tried to Quit Smoking One Day or Longer in Past Year[a]	
	%	**95% Confidence Interval**
Total	**62.6**	**(59.4-65.6)**
Age		
18 – 24	67.9	(55.8-77.9)
25 – 34	67.0	(59.7-73.5)
35 – 44	62.9	(55.1-70.2)
45 – 54	57.4	(50.4-64.1)
55 – 64	64.6	(58.4-70.4)
65 – 74	60.2	(51.7-68.1)
75 +	43.4	(29.6-58.2)
Gender		
Male	60.4	(55.9-64.7)
Female	65.0	(60.6-69.2)
Race/Ethnicity		
White non-Hispanic	59.2	(55.6-62.7)
Black non-Hispanic	78.7	(70.8-84.8)
Other non-Hispanic	54.0	(41.0-66.5)
Hispanic	--[b]	--[b]
Education		
Less than high school	62.3	(53.1-70.6)
High school graduate	62.3	(57.5-66.8)
Some college	63.4	(58.3-68.2)
College graduate	60.8	(53.3-67.9)
Household Income		
< $20,000	64.8	(58.2-70.8)
$20,000 - $34,999	68.0	(61.6-73.8)
$35,000 - $49,999	55.9	(46.4-65.0)
$50,000 - $74,999	59.4	(50.7-67.6)
$75,000 +	56.9	(48.6-64.8)

[a] Among current smokers, the proportion who reported that during the past 12 months, they had tried to quit smoking for one day or longer. (N = 1,458)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 16: Smokeless Tobacco Use 2015 Michigan BRFS	Current Smokeless Tobacco Use[a]	
	%	**95% Confidence Interval**
Total	**3.4**	**(2.9-4.0)**
Age		
18 – 24	6.0	(4.2-8.6)
25 – 34	5.4	(3.9-7.4)
35 – 44	4.7	(3.4-6.5)
45 – 54	3.2	(2.2-4.7)
55 – 64	1.7	(1.1-2.5)
65 – 74	--[b]	--[b]
75 +	1.7	(0.9-3.1)
Gender		
Male	6.3	(5.4-7.4)
Female	0.7	(0.4-1.1)
Race/Ethnicity		
White non-Hispanic	3.7	(3.1-4.4)
Black non-Hispanic	--[b]	--[b]
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education		
Less than high school	3.9	(2.2-6.7)
High school graduate	4.6	(3.6-5.9)
Some college	3.0	(2.3-4.0)
College graduate	2.4	(1.8-3.2)
Household Income		
< $20,000	2.1	(1.4-3.3)
$20,000 - $34,999	3.7	(2.5-5.5)
$35,000 - $49,999	4.4	(2.9-6.7)
$50,000 - $74,999	4.7	(3.3-6.6)
$75,000 +	3.2	(2.4-4.3)

[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 = 8,688)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 17: Hookah Use
2015 Michigan BRFS

	Current Hookah Use[a]	
	%	**95% Confidence Interval**
Total	**4.5**	**(3.8-5.3)**
Age		
18 – 24	11.1	(8.0-15.3)
25 – 34	7.0	(4.7-10.3)
35 – 44	4.6	(3.0-7.2)
45 – 54	2.7	(1.7-4.3)
55 – 64	3.6	(2.4-5.4)
65 – 74	--[b]	--[b]
75 +	--[b]	--[b]
Gender		
Male	5.9	(4.8-7.3)
Female	3.2	(2.4-4.2)
Race/Ethnicity		
White non-Hispanic	3.9	(3.2-4.8)
Black non-Hispanic	7.2	(4.7-10.9)
Other non-Hispanic	5.2	(2.9-9.1)
Hispanic	--[b]	--[b]
Education		
Less than high school	8.1	(4.9-13.1)
High school graduate	5.2	(3.9-6.8)
Some college	4.5	(3.4-6.0)
College graduate	1.8	(1.2-2.6)
Household Income		
< $20,000	7.8	(5.4-11.2)
$20,000 - $34,999	7.1	(5.0-10.0)
$35,000 - $49,999	--[b]	--[b]
$50,000 - $74,999	5.0	(3.4-7.5)
$75,000 +	1.9	(1.2-3.0)

[a] Among all adults, the proportion who reported smoking tobacco using a hookah, narghile, or water pipe on one or more days during the previous thirty day. (N = 5,304)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 18: Alcohol Consumption 2015 Michigan BRFS						
	Any Alcohol in Past Month[a]		**Heavy Drinking**[b]		**Binge Drinking**[c]	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**57.0**	**(55.6-58.3)**	**6.5**	**(5.9-7.2)**	**18.5**	**(17.5-19.6)**
Age						
18 – 24	53.2	(48.6-57.9)	5.8	(4.2-8.1)	26.7	(23.0-30.9)
25 – 34	65.0	(61.3-68.6)	7.3	(5.5-9.5)	27.0	(23.7-30.5)
35 – 44	65.8	(62.2-69.2)	7.3	(5.5-9.7)	25.3	(22.1-28.8)
45 – 54	59.3	(56.1-62.3)	7.0	(5.6-8.7)	18.5	(16.3-21.0)
55 – 64	56.8	(54.1-59.4)	7.3	(6.0-8.9)	14.4	(12.6-16.3)
65 – 74	49.8	(46.8-52.7)	6.0	(4.7-7.7)	8.1	(6.5-10.1)
75 +	39.7	(36.3-43.3)	3.7	(2.6-5.1)	3.0	(2.0-4.5)
Gender						
Male	63.6	(61.7-65.5)	7.5	(6.5-8.7)	24.5	(22.8-26.3)
Female	50.7	(48.9-52.4)	5.6	(4.9-6.5)	12.9	(11.7-14.2)
Race/Ethnicity						
White non-Hispanic	59.0	(57.5-60.4)	7.3	(6.6-8.1)	19.3	(18.1-20.5)
Black non-Hispanic	50.8	(46.7-54.9)	3.4	(2.2-5.1)	15.7	(12.8-19.0)
Other non-Hispanic	46.2	(39.9-52.6)	--[d]	--[d]	12.7	(9.0-17.4)
Hispanic	56.6	(48.5-64.4)	--[d]	--[d]	20.3	(14.3-27.9)
Education						
Less than high school	41.7	(36.1-47.5)	6.6	(4.3-10.0)	15.9	(12.0-20.7)
High school graduate	49.3	(46.9-51.7)	6.4	(5.3-7.6)	18.5	(16.6-20.6)
Some college	59.7	(57.5-61.9)	7.4	(6.3-8.6)	19.5	(17.6-21.4)
College graduate	69.6	(67.7-71.4)	5.6	(4.8-6.7)	18.4	(16.8-20.2)
Household Income						
< $20,000	42.8	(39.2-46.6)	5.8	(4.4-7.6)	14.7	(12.2-17.6)
$20,000 - $34,999	51.5	(48.2-54.8)	6.3	(4.9-8.0)	17.1	(14.6-19.9)
$35,000 - $49,999	57.2	(53.5-60.8)	6.4	(4.7-8.7)	19.3	(16.2-22.7)
$50,000 - $74,999	64.3	(60.9-67.5)	9.5	(7.4-12.0)	21.6	(18.7-24.8)
$75,000 +	72.0	(69.6-74.3)	7.2	(6.0-8.5)	23.1	(21.0-25.3)

[a] Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month. (N = 8,604)
[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 = 8,525)
[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 = 8,541)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 19: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers
2015 Michigan BRFS

	Number of Binge Drinking Occasions[a]	
	Mean	**95% Confidence Interval**
Total	**4.8**	**(4.2-5.4)**
Age		
18 – 24	5.0	(2.7-7.4)
25 – 34	3.7	(3.0-4.3)
35 – 44	4.9	(3.6-6.2)
45 – 54	5.3	(4.1-6.4)
55 – 64	4.5	(3.6-5.4)
65 – 74	7.0	(4.8-9.2)
75+	--[b]	--[b]
Gender		
Male	5.2	(4.5-5.8)
Female	4.1	(2.9-5.4)
Race/Ethnicity		
White non-Hispanic	5	(4.3-5.7)
Black non-Hispanic	3.9	(2.7-5.1)
Other non-Hispanic	5.7	(3.5-7.9)
Hispanic	--[b]	--[b]
Education		
Less than high school	9.4	(4.5-14.3)
High school graduate	4.8	(4.0-5.5)
Some college	4.6	(4.0-5.2)
College graduate	3.3	(2.9-3.6)
Household Income		
< $20,000	7.1	(3.5-10.6)
$20,000 - $34,999	4.8	(3.9-5.8)
$35,000 - $49,999	4.4	(3.0-5.8)
$50,000 - $74,999	5.6	(4.1-7.2)
$75,000 +	3.6	(3.1-4.1)

[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 = 1,312)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

	Always Uses a Seatbelt[a]	
	%	**95% Confidence Interval**
Total	**90.3**	**(89.4-91.1)**
Age		
18 – 24	82.7	(78.9-85.9)
25 – 34	86.3	(83.0-89.1)
35 – 44	90.4	(87.9-92.4)
45 – 54	92.6	(90.8-94.1)
55 – 64	93.4	(92.0-94.7)
65 – 74	93.1	(91.3-94.5)
75 +	92.6	(89.9-94.6)
Gender		
Male	87.0	(85.6-88.4)
Female	93.3	(92.2-94.2)
Race/Ethnicity		
White non-Hispanic	90.9	(89.9-91.8)
Black non-Hispanic	88.3	(85.1-90.8)
Other non-Hispanic	88.8	(83.9-92.3)
Hispanic	87.3	(80.1-92.1)
Education		
Less than high school	86.3	(81.5-90.0)
High school graduate	90.4	(88.8-91.8)
Some college	89.0	(87.4-90.4)
College graduate	93.7	(92.6-94.6)
Household Income		
< $20,000	88.3	(85.4-90.7)
$20,000 - $34,999	87.6	(85.1-89.8)
$35,000 - $49,999	89.7	(86.8-92.0)
$50,000 - $74,999	91.5	(89.1-93.3)
$75,000 +	92.0	(90.4-93.4)

Table 20: Seatbelt Use
2015 Michigan BRFS

[a] Among all adults, the proportion who reported always using a seatbelt when driving or riding in a car. (N = 8,294)

Table 21: Hypertension Awareness and Medication Use **2015 Michigan BRFS**				
Demographic Characteristics	**Ever Told HBP[a]**		**Taking BP Medication[b]**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**33.1**	**(31.9-34.3)**	**78.1**	**(76.2-79.9)**
Age				
18 – 24	8.1	(6.0-10.9)	--[c]	--[c]
25 – 34	10.7	(8.7-13.1)	27.4	(19.0-37.8)
35 – 44	21.8	(19.0-24.8)	56.0	(48.6-63.2)
45 – 54	33.7	(30.9-36.7)	73.1	(68.0-77.6)
55 – 64	46.3	(43.7-48.9)	87.2	(84.5-89.6)
65 – 74	61.0	(58.1-63.7)	91.0	(88.6-93.0)
75 +	64.4	(60.9-67.8)	94.0	(91.2-95.9)
Gender				
Male	34.3	(32.5-36.1)	75.7	(72.8-78.3)
Female	32.0	(30.5-33.5)	80.6	(78.1-82.9)
Race/Ethnicity				
White non-Hispanic	32.3	(31.1-33.6)	79.2	(77.2-81.1)
Black non-Hispanic	43.0	(39.1-46.9)	75.9	(70.1-80.9)
Other non-Hispanic	27.1	(22.2-32.7)	65.8	(54.5-75.5)
Hispanic	23.6	(17.8-30.5)	76.6	(62.0-86.7)
Education				
Less than high school	38.6	(33.6-43.9)	81.3	(74.1-86.9)
High school graduate	36.3	(34.1-38.4)	78.9	(75.6-81.9)
Some college	32.8	(30.8-34.8)	76.8	(73.4-79.8)
College graduate	27.4	(25.7-29.1)	77.1	(73.9-80.1)
Household Income				
< $20,000	38.9	(35.5-42.4)	77.6	(72.8-81.8)
$20,000 - $34,999	37.8	(34.8-40.8)	80.8	(76.5-84.5)
$35,000 - $49,999	40.0	(36.5-43.6)	80.1	(74.6-84.7)
$50,000 - $74,999	30.3	(27.4-33.3)	78.4	(73.1-83.0)
$75,000 +	25.2	(23.3-27.3)	72.6	(68.3-76.6)

[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 = 8,907)
[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 = 3,511)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

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	**83.3**	**(82.2-84.4)**	**79.2**	**(77.9-80.3)**	**38.2**	**(36.8-39.5)**
Age						
18 – 24	45.0	(40.3-49.7)	42.5	(37.8-47.3)	8.3	(5.3-12.8)
25 – 34	66.8	(62.9-70.4)	59.4	(55.4-63.2)	15.4	(12.3-19.0)
35 – 44	85.0	(82.0-87.5)	79.0	(75.8-82.0)	23.8	(20.6-27.3)
45 – 54	93.0	(91.2-94.4)	87.9	(85.8-89.8)	36.9	(33.9-40.0)
55 – 64	96.7	(95.4-97.6)	93.6	(92.1-94.9)	49.4	(46.7-52.1)
65 – 74	97.4	(96.2-98.2)	95.4	(93.9-96.5)	58.3	(55.3-61.2)
75 +	96.3	(94.5-97.6)	94.8	(92.7-96.3)	58.0	(54.3-61.6)
Gender						
Male	81.1	(79.4-82.8)	76.4	(74.5-78.2)	38.7	(36.7-40.7)
Female	85.4	(83.8-86.9)	81.8	(80.1-83.3)	37.7	(36.0-39.4)
Race/Ethnicity						
White non-Hispanic	85.0	(83.7-86.1)	80.3	(78.9-81.6)	39.7	(38.3-41.2)
Black non-Hispanic	81.7	(78.1-84.9)	79.6	(75.9-82.9)	32.9	(29.1-37.0)
Other non-Hispanic	74.5	(67.9-80.1)	71.2	(64.5-77.0)	32.9	(26.9-39.5)
Hispanic	70.5	(62.0-77.8)	68.9	(60.4-76.3)	32.0	(24.3-41.0)
Education						
Less than high school	74.5	(68.7-79.6)	71.2	(65.3-76.5)	42.1	(36.3-48.2)
High school graduate	81.2	(79.0-83.1)	77.2	(75.0-79.3)	41.6	(39.1-44.1)
Some college	82.9	(80.9-84.7)	78.3	(76.2-80.3)	38.2	(35.9-40.5)
College graduate	91.0	(89.6-92.2)	86.7	(85.1-88.1)	33.1	(31.2-35.0)
Household Income						
< $20,000	76.2	(72.7-79.4)	72.4	(68.8-75.8)	40.9	(37.0-44.9)
$20,000 - $34,999	79.8	(76.6-82.7)	74.1	(70.7-77.2)	44.8	(41.4-48.3)
$35,000 - $49,999	87.3	(84.2-89.9)	82.2	(78.8-85.2)	40.8	(37.1-44.6)
$50,000 - $74,999	86.9	(84.1-89.4)	81.9	(78.8-84.7)	36.9	(33.6-40.4)
$75,000 +	89.2	(87.2-90.9)	85.5	(83.4-87.4)	31.8	(29.6-34.1)

Table 22: Cholesterol Screening and Awareness
2015 Michigan BRFS

[a] Among all adults, the proportion who reported ever having had their blood cholesterol checked. (N = 8,731)
[b] Among all adults, the proportion who reported that they have had their blood cholesterol checked within the past five years. (N = 8,612)
[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 = 7,715)

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

Table 23: No Routine Checkup in Past Year 2015 Michigan BRFS		
	Had No Routine Checkup in Past Year[a]	
	%	**95% Confidence Interval**
Total	**28.0**	**(26.7-29.2)**
Age		
18 - 24	35.0	(30.8-39.5)
25 - 34	39.5	(35.8-43.3)
35 - 44	36.5	(33.0-40.2)
45 - 54	30.0	(27.2-33.0)
55 - 64	20.6	(18.6-22.9)
65 - 74	15.8	(13.8-18.2)
75 +	9.8	(7.8-12.2)
Gender		
Male	32.7	(30.8-34.6)
Female	23.5	(21.9-25.1)
Race/Ethnicity		
White non-Hispanic	29.1	(27.7-30.5)
Black non-Hispanic	21.6	(18.3-25.4)
Other non-Hispanic	29.2	(24.0-35.1)
Hispanic	25.8	(19.4-33.4)
Education		
Less than high school	27.7	(22.6-33.4)
High school graduate	27.6	(25.5-29.9)
Some college	29.7	(27.7-31.9)
College graduate	26.1	(24.3-27.9)
Household Income		
< $20,000	28.1	(24.7-31.8)
$20,000 - $34,999	25.7	(22.9-28.8)
$35,000 - $49,999	30.0	(26.5-33.7)
$50,000 - $74,999	29.9	(26.7-33.2)
$75,000 +	27.9	(25.7-30.3)

[a] Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 8,844)

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

Table 24: Colorectal Cancer Screening (Blood Stool Test) Among Adults Aged 50 Years and Older 2015 Michigan BRFS				
	Ever Had Blood Stool Test[a]		**Had Blood Stool Test in Past Two Years[b]**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**35.8**	**(34.3-37.4)**	**14.1**	**(13.1-15.3)**
Age				
50 - 59	22.9	(20.6-25.3)	10.9	(9.3-12.7)
60 - 69	43.2	(40.5-45.9)	16.5	(14.6-18.6)
70 +	45.4	(42.5-48.2)	16.0	(14.1-18.2)
Gender				
Male	31.6	(29.3-33.9)	13.9	(12.3-15.8)
Female	39.5	(37.4-41.6)	14.3	(12.9-15.8)
Race/Ethnicity				
White non-Hispanic	37.2	(35.5-38.8)	14.5	(13.3-15.7)
Black non-Hispanic	29.9	(25.1-35.1)	14.7	(11.1-19.1)
Other non-Hispanic	24.7	(18.0-32.8)	8.7	(5.0-14.7)
Hispanic	28.6	(17.9-42.3)	--[c]	--[c]
Education				
Less than high school	22.2	(17.1-28.2)	7.8	(5.0-11.9)
High school graduate	34.8	(32.2-37.5)	15.0	(13.1-17.1)
Some college	39.4	(36.6-42.1)	15.6	(13.7-17.8)
College graduate	38.6	(36.1-41.0)	13.8	(12.2-15.6)
Household Income				
< $20,000	30.5	(26.3-34.9)	14.5	(11.6-18.1)
$20,000 - $34,999	35.0	(31.4-38.7)	14.5	(12.0-17.3)
$35,000 - $49,999	40.4	(36.3-44.6)	13.8	(11.1-17.0)
$50,000 - $74,999	35.7	(31.9-39.7)	14.5	(11.9-17.7)
$75,000 +	35.3	(32.4-38.4)	13.1	(11.2-15.4)

[a] Among adults aged 50 years and older, the proportion who reported ever having a blood stool test using a home kit. (N = 5,218)
[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 = 5,162)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 25: Colorectal Cancer Screening (Sigmoidoscopy/Colonoscopy) Among Adults Aged 50 Years and Older
2015 Michigan BRFS

	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	**74.7**	**(73.1-76.2)**	**56.5**	**(54.9-58.2)**	**69.2**	**(67.6-70.8)**
Age						
50 - 59	63.4	(60.5-66.2)	50.1	(47.2-53.0)	60.2	(57.3-63.0)
60 - 69	82.2	(79.9-84.3)	61.5	(58.8-64.1)	76.1	(73.6-78.5)
70 +	81.7	(79.3-83.9)	59.9	(57.0-62.7)	74.0	(71.4-76.6)
Gender						
Male	73.6	(71.2-75.9)	57.3	(54.7-59.8)	68.5	(65.9-70.9)
Female	75.6	(73.6-77.5)	55.9	(53.7-58.0)	69.8	(67.8-71.9)
Race/Ethnicity						
White non-Hispanic	76.0	(74.4-77.5)	56.2	(54.5-58.0)	70.2	(68.5-71.8)
Black non-Hispanic	70.1	(64.5-75.2)	61.2	(55.4-66.6)	66.3	(60.5-71.7)
Other non-Hispanic	66.0	(55.4-75.2)	53.1	(43.2-62.8)	62.0	(51.4-71.6)
Hispanic	63.1	(47.7-76.1)	51.0	(36.7-65.0)	59.1	(44.1-72.5)
Education						
Less than high school	64.2	(57.0-70.8)	50.9	(43.6-58.1)	58.7	(51.3-65.8)
High school graduate	73.1	(70.4-75.6)	55.1	(52.2-58.0)	67.1	(64.2-69.8)
Some college	76.3	(73.7-78.7)	57.4	(54.5-60.2)	70.5	(67.8-73.1)
College graduate	79.7	(77.5-81.8)	60.2	(57.6-62.6)	75.2	(72.8-77.4)
Household Income						
< $20,000	63.6	(58.6-68.4)	48.6	(43.6-53.6)	56.3	(51.2-61.3)
$20,000 - $34,999	69.9	(65.9-73.5)	52.2	(48.2-56.2)	64.0	(60.0-67.8)
$35,000 - $49,999	77.9	(74.0-81.3)	56.7	(52.4-60.9)	71.3	(67.1-75.1)
$50,000 - $74,999	80.8	(77.2-83.9)	61.7	(57.5-65.7)	76.8	(73.0-80.2)
$75,000 +	77.7	(74.5-80.5)	59.5	(56.2-62.7)	73.5	(70.3-76.5)

[a] Among adults aged 50 years and older, the proportion who reported ever having a sigmoidoscopy or colonoscopy. (N = 5,227)
[b] Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy or colonoscopy in the past five years. (N = 5,175)
[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 = 5,109)

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

Table 26: Appropriate Colorectal Cancer Screening Among Adults 50 Years and Older 2015 Michigan BRFS		
	Appropriate Colorectal Cancer Screening[a]	
	%	**95% Confidence Interval**
Total	**71.8**	**(70.2-73.3)**
Age		
50 - 59	62.8	(59.9-65.6)
60 - 69	78.4	(75.9-80.6)
70 +	76.8	(74.2-79.2)
Gender		
Male	70.9	(68.4-73.2)
Female	72.5	(70.5-74.5)
Race/Ethnicity		
White non-Hispanic	72.7	(71.0-74.3)
Black non-Hispanic	70.0	(64.3-75.3)
Other non-Hispanic	63.6	(52.9-73.1)
Hispanic	60.7	(45.6-74.0)
Education		
Less than high school	60.2	(52.7-67.2)
High school graduate	69.7	(66.9-72.4)
Some college	73.5	(70.8-75.9)
College graduate	77.6	(75.3-79.8)
Household Income		
< $20,000	59.3	(54.2-64.3)
$20,000 - $34,999	67.4	(63.4-71.1)
$35,000 - $49,999	73.2	(69.1-76.9)
$50,000 - $74,999	79.2	(75.6-82.5)
$75,000 +	75.3	(72.2-78.3)

[a] Among adults aged 50 years and older, the proportion who reported having either a fecal occult blood test within the past year, a sigmoidoscopy within the past five years, or a colonoscopy within the past ten years. (N = 5,117)

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

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Table 27: Immunizations among Adults Aged 65 Years and Older 2015 Michigan BRFS				
	Had Flu Vaccine in Past Year[a]		**Ever Had Pneumonia Vaccine[b]**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**57.7**	**(55.3-60.0)**	**72.8**	**(70.6-74.9)**
Age				
65 - 74	55.4	(52.4-58.3)	68.4	(65.5-71.2)
75 +	60.9	(57.1-64.5)	78.8	(75.4-81.9)
Gender				
Male	59.7	(56.0-63.3)	71.4	(67.8-74.7)
Female	56.1	(53.1-59.0)	73.8	(71.0-76.5)
Race/Ethnicity				
White non-Hispanic	58.5	(56.1-60.9)	73.7	(71.4-75.9)
Black non-Hispanic	54.3	(45.5-62.8)	63.0	(54.1-71.1)
Other non-Hispanic	49.0	(33.9-64.4)	72.4	(57.8-83.4)
Hispanic	--[c]	--[c]	--[c]	--[c]
Education				
Less than high school	59.0	(50.1-67.4)	69.5	(60.4-77.2)
High school graduate	53.2	(49.4-56.9)	72.8	(69.3-76.0)
Some college	56.7	(52.4-60.8)	73.0	(69.0-76.7)
College graduate	65.8	(62.3-69.1)	75.0	(71.7-78.0)
Household Income				
< $20,000	47.3	(40.2-54.5)	71.5	(64.7-77.4)
$20,000 - $34,999	56.3	(51.4-61.0)	73.5	(68.7-77.7)
$35,000 - $49,999	59.9	(53.9-65.6)	74.6	(69.0-79.5)
$50,000 - $74,999	59.2	(52.7-65.4)	72.4	(66.1-78.0)
$75,000 +	63.1	(58.0-68.0)	73.3	(68.3-77.8)

[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 = 2,661)
[b] Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 2,592)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 28: HIV Testing among Adults Aged 18 - 64 Years
2015 Michigan BRFS

	Ever Had an HIV Test[a]	
	%	**95% Confidence Interval**
Total	**41.5**	**(39.9-43.1)**
Age		
18 – 24	23.7	(19.7-28.1)
25 – 34	55.5	(51.4-59.6)
35 – 44	58.6	(54.8-62.4)
45 – 54	43.1	(40.0-46.3)
55 – 64	26.4	(24.0-29.0)
Gender		
Male	37.7	(35.4-40.1)
Female	45.3	(43.0-47.5)
Race/Ethnicity		
White non-Hispanic	36.4	(34.6-38.2)
Black non-Hispanic	66.5	(61.8-70.9)
Other non-Hispanic	37.6	(30.9-44.7)
Hispanic	50.2	(41.4-58.9)
Education		
Less than high school	46.5	(39.0-54.1)
High school graduate	39.6	(36.5-42.7)
Some college	42.0	(39.3-44.7)
College graduate	40.7	(38.3-43.2)
Household Income		
< $20,000	53.8	(49.3-58.2)
$20,000 - $34,999	48.3	(43.9-52.8)
$35,000 - $49,999	39.5	(34.8-44.4)
$50,000 - $74,999	39.3	(35.3-43.4)
$75,000 +	37.2	(34.6-40.0)

[a] Among adults aged 18 - 64 years, the proportion who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation. Don't know was considered a valid response to this question. (N = 5,345)

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

Table 29: Asthma among Adults 2015 Michigan BRFS				
	Lifetime Asthma Prevalence[a]		Current Asthma Prevalence[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**15.7**	**(14.8-16.7)**	**10.2**	**(9.5-11.0)**
Age				
18 - 24	21.3	(17.8-25.4)	13.3	(10.4-16.9)
25 - 34	19.2	(16.4-22.2)	9.8	(7.9-12.2)
35 - 44	16.4	(13.9-19.3)	9.7	(7.9-11.9)
45 - 54	15.5	(13.5-17.8)	11.3	(9.5-13.4)
55 - 64	13.2	(11.4-15.1)	9.4	(7.9-11.0)
65 - 74	13.2	(11.3-15.4)	9.6	(8.0-11.5)
75 +	10.1	(8.3-12.4)	8.2	(6.5-10.3)
Gender				
Male	14.2	(12.8-15.7)	7.8	(6.8-9.0)
Female	17.2	(15.9-18.5)	12.5	(11.3-13.7)
Race/Ethnicity				
White non-Hispanic	15.3	(14.3-16.4)	9.9	(9.1-10.8)
Black non-Hispanic	17.7	(14.8-21.0)	11.8	(9.4-14.6)
Other non-Hispanic	17.1	(12.9-22.3)	11.6	(8.2-16.2)
Hispanic	16.8	(11.5-23.9)	11.5	(7.0-18.4)
Education				
Less than high school	20.1	(15.9-24.9)	14.1	(10.8-18.3)
High school graduate	15.4	(13.8-17.2)	9.4	(8.1-10.8)
Some college	16.2	(14.6-17.9)	10.5	(9.3-11.9)
College graduate	13.4	(12.0-14.8)	8.9	(7.8-10.1)
Household Income				
< $20,000	21.7	(18.9-24.8)	15.2	(12.9-17.8)
$20,000 - $34,999	16.4	(13.9-19.2)	11.3	(9.2-13.8)
$35,000 - $49,999	12.0	(9.8-14.6)	6.6	(5.1-8.5)
$50,000 - $74,999	14.3	(11.9-17.1)	7.4	(5.9-9.3)
$75,000 +	14.4	(12.8-16.3)	8.8	(7.5-10.3)

[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 = 8,892)
[b] Among all adults, the proportion who reported that they still had asthma. (N = 8,852)

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

Table 30: Asthma among Children 2015 Michigan BRFS				
	Lifetime Asthma Prevalence[a]		Current Asthma Prevalence[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**11.6**	**(10.1-13.3)**	**7.7**	**(6.5-9.2)**
Age				
0 - 4	4.2	(2.4-7.4)	--[c]	--[c]
5 - 9	13.5	(10.1-17.8)	9.5	(6.6-13.3)
10 - 14	15.0	(12.0-18.7)	10.4	(7.9-13.7)
15 - 17	16.8	(13.3-20.9)	9.2	(6.7-12.6)
Gender				
Boy	14.9	(12.6-17.6)	9.6	(7.7-12.0)
Girl	8.3	(6.5-10.5)	5.9	(4.4-7.8)
Race/Ethnicity				
White non-Hispanic	11.1	(9.4-13.1)	7.5	(6.1-9.3)
Black non-Hispanic	16.9	(12.3-22.7)	12.0	(8.1-17.3)
Other non-Hispanic	12.6	(8.1-19.1)	--[c]	--[c]
Hispanic	--[c]	--[c]	--[c]	--[c]
Respondent Education				
Less than high school	--[c]	--[c]	--[c]	--[c]
High school graduate	11.6	(8.7-15.2)	9.2	(6.6-12.5)
Some college	12.8	(10.0-16.1)	7.7	(5.6-10.5)
College graduate	11.0	(8.8-13.7)	7.0	(5.2-9.5)
Household Income				
< $20,000	13.8	(9.6-19.5)	11.6	(7.7-17.0)
$20,000 - $34,999	11.8	(7.9-17.2)	8.0	(4.9-12.7)
$35,000 - $49,999	7.9	(4.8-12.6)	--[c]	--[c]
$50,000 - $74,999	12.0	(8.3-17.1)	8.9	(5.7-13.6)
$75,000 +	11.7	(9.4-14.4)	6.9	(5.1-9.3)

[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 = 1,986).
[b] Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 1,979)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 31: Chronic Obstructive Pulmonary Disease (COPD) 2015 Michigan BRFS	Ever Told COPD, Emphysema or Chronic Bronchitis[a]	
	%	95% Confidence Interval
Total	**7.7**	**(7.0-8.3)**
Age		
18 - 24	2.3	(1.3-4.2)
25 - 34	2.6	(1.7-4.0)
35 - 44	3.8	(2.6-5.5)
45 - 54	9.2	(7.6-11.2)
55 - 64	11.3	(9.6-13.2)
65 - 75	12.9	(11.1-15.0)
75 +	13.9	(11.7-16.4)
Gender		
Male	6.8	(5.9-7.8)
Female	8.5	(7.7-9.4)
Race/Ethnicity		
White/Non-Hispanic	7.4	(6.8-8.1)
Black/Non-Hispanic	9.3	(7.3-11.7)
Other/Non-Hispanic	8.9	(6.2-12.7)
Hispanic	--[b]	--[b]
Education		
Less than high school	14.9	(11.8-18.7)
High school graduate	9.4	(8.3-10.6)
Some college	7.1	(6.1-8.2)
College graduate	3.2	(2.7-3.9)
Household Income		
< $20,000	15.5	(13.3-18.1)
$20,000 - $34,999	11.6	(9.8-13.7)
$35,000 - $49,999	6.4	(5.0-8.2)
$50,000 - $74,999	4.1	(3.0-5.4)
$75,000 +	3.3	(2.6-4.3)

[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 = 8,892)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 32: Arthritis 2015 Michigan BRFS		
Demographic Characteristics	**Ever Told Arthritis[a]**	
	%	**95% Confidence Interval**
Total	**30.0**	**(28.9-31.1)**
Age		
18 - 24	4.2	(2.7-6.6)
25 - 34	10.3	(8.2-12.7)
35 - 44	18.7	(16.1-21.6)
45 - 54	32.9	(30.1-35.9)
55 - 64	42.6	(40.0-45.2)
65 - 75	52.7	(49.8-55.6)
75 +	61.5	(57.9-65.0)
Gender		
Male	25.2	(23.7-26.8)
Female	34.5	(33.0-36.1)
Race/Ethnicity		
White/Non-Hispanic	31.9	(30.6-33.2)
Black/Non-Hispanic	26.4	(23.2-29.8)
Other/Non-Hispanic	21.3	(17.0-26.3)
Hispanic	16.8	(12.1-22.9)
Education		
Less than high school	38.5	(33.5-43.8)
High school graduate	33.2	(31.1-35.3)
Some college	30.5	(28.6-32.4)
College graduate	21.6	(20.2-23.1)
Household Income		
< $20,000	37.8	(34.5-41.3)
$20,000 - $34,999	36.1	(33.1-39.1)
$35,000 - $49,999	36.1	(32.7-39.6)
$50,000 - $74,999	27.8	(25.0-30.8)
$75,000 +	20.1	(18.3-22.0)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. (N = 8,885)

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

Table 33: Cardiovascular Disease 2015 Michigan BRFS								
	Ever Told Heart Attack[a]		Had Told Angina or Coronary Heart Disease[b]		Ever Told Stroke[c]		Ever Told Any Cardiovascular Disease[d]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**4.7**	**(4.2-5.2)**	**4.6**	**(4.1-5.1)**	**3.3**	**(2.9-3.8)**	**9.2**	**(8.5-9.9)**
Age								
18 - 34	0.4	(0.2-0.8)	--[e]	--[e]	--[e]	--[e]	0.8	(0.4-1.3)
35 - 44	--[e]	--[e]	--[e]	--[e]	1.4	(0.8-2.4)	3.3	(2.2-4.8)
45 - 54	4.7	(3.6-6.2)	3.9	(2.8-5.3)	3.5	(2.5-4.9)	8.5	(6.9-10.5)
55 - 64	6.5	(5.3-8.0)	6.8	(5.5-8.3)	4.4	(3.5-5.6)	12.5	(10.8-14.4)
65 - 74	9.8	(8.1-11.7)	10.5	(8.8-12.3)	6.6	(5.4-8.2)	19.6	(17.4-22.0)
75 +	13.8	(11.4-16.5)	15.6	(13.0-18.7)	9.1	(7.1-11.7)	27.9	(24.7-31.4)
Gender								
Male	6.0	(5.2-6.8)	5.4	(4.7-6.3)	2.8	(2.3-3.4)	10.1	(9.1-11.2)
Female	3.4	(2.9-4.1)	3.8	(3.2-4.4)	3.8	(3.3-4.5)	8.3	(7.5-9.2)
Race/Ethnicity								
White non-Hispanic	4.8	(4.3-5.4)	4.8	(4.3-5.4)	3.1	(2.7-3.6)	9.5	(8.7-10.2)
Black non-Hispanic	4.4	(3.2-6.1)	3.2	(2.2-4.7)	4.4	(3.2-6.0)	8.6	(6.9-10.8)
Other non-Hispanic	3.1	(1.8-5.1)	--[e]	--[e]	--[e]	--[e]	7.5	(5.0-11.1)
Hispanic	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	7.0	(4.1-11.8)
Education								
< High school	8.3	(6.1-11.2)	7.9	(5.7-10.9)	7.6	(5.5-10.5)	15.5	(12.4-19.2)
High school graduate	5.6	(4.7-6.7)	4.9	(4.1-5.9)	3.5	(2.8-4.3)	10.0	(8.9-11.3)
Some college	4.3	(3.7-5.1)	3.9	(3.2-4.7)	2.7	(2.2-3.4)	8.4	(7.5-9.6)
College graduate	2.4	(1.9-2.9)	3.7	(3.1-4.4)	2.0	(1.6-2.6)	6.4	(5.6-7.3)
Household Income								
< $20,000	7.3	(5.8-9.1)	5.9	(4.6-7.6)	5.6	(4.4-7.2)	12.6	(10.7-14.9)
$20,000 - $34,999	6.2	(5.1-7.7)	6.0	(4.8-7.5)	3.3	(2.4-4.4)	12.0	(10.2-13.9)
$35,000 - $49,999	5.9	(4.4-7.9)	5.6	(4.2-7.5)	4.5	(3.2-6.2)	11.3	(9.2-13.7)
$50,000 - $74,999	3.9	(2.8-5.3)	3.4	(2.6-4.6)	2.5	(1.6-3.7)	7.4	(6.0-9.1)
$75,000 +	2.3	(1.7-3.1)	2.8	(2.2-3.6)	0.9	(0.6-1.4)	5.0	(4.1-6.0)

Among all adults, the proportion who had ever been told by a doctor that…
[a] they had a heart attack or myocardial infarction (N = 8,883);
[b] they had angina or coronary heart disease (N = 8,871);
[c] they had a stroke. (N = 8,914)
[d] they had a heart attack, coronary heart disease or a stroke. (N = 8,862)
[e] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

	Ever Told Skin Cancer[a]		Ever Told Any Other Types of Cancer[b]		Ever Told Cancer[c]	
Table 34: Cancer **2015 Michigan BRFS**	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**6.1**	**(5.6-6.6)**	**7.0**	**(6.4-7.6)**	**11.8**	**(11.1-12.5)**
Age						
18 - 34	--[d]	--[d]	1.5	(1.0-2.4)	1.9	(1.3-2.8)
35 - 44	1.4	(0.8-2.4)	1.9	(1.2-3.1)	3.0	(2.1-4.4)
45 - 54	4.0	(3.1-5.2)	5.1	(4.0-6.5)	8.8	(7.4-10.5)
55 - 64	7.3	(6.1-8.7)	8.9	(7.5-10.4)	15.5	(13.7-17.4)
65 - 74	14.3	(12.5-16.4)	16.8	(14.7-19.0)	27.9	(25.4-30.5)
75 +	23.1	(20.2-26.3)	20.5	(17.8-23.4)	36.6	(33.2-40.1)
Gender						
Male	6.2	(5.5-7.0)	5.8	(5.1-6.5)	10.6	(9.7-11.6)
Female	5.9	(5.3-6.6)	8.1	(7.3-9.0)	12.9	(12.0-14.0)
Race/Ethnicity						
White non-Hispanic	7.6	(7.0-8.3)	7.7	(7.0-8.3)	13.7	(12.9-14.6)
Black non-Hispanic	--[d]	--[d]	5.5	(4.3-7.1)	5.7	(4.5-7.3)
Other non-Hispanic	--[d]	--[d]	3.8	(2.4-6.0)	5.2	(3.6-7.7)
Hispanic	--[d]	--[d]	--[d]	--[d]	--[d]	--[d]
Education						
Less than high school	5.5	(3.7-8.0)	6.6	(4.7-9.3)	10.9	(8.3-14.1)
High school graduate	5.4	(4.6-6.3)	7.6	(6.6-8.7)	12.0	(10.7-13.3)
Some college	6.1	(5.3-7.1)	6.9	(6.0-7.9)	11.6	(10.4-12.9)
College graduate	7.2	(6.4-8.1)	6.6	(5.8-7.5)	12.5	(11.4-13.7)
Household Income						
< $20,000	3.9	(2.8-5.5)	8.1	(6.4-10.1)	11.1	(9.1-13.4)
$20,000 - $34,999	6.3	(5.1-7.7)	8.4	(7.0-10.1)	13.1	(11.3-15.0)
$35,000 - $49,999	7.7	(6.1-9.6)	9.3	(7.7-11.3)	15.3	(13.1-17.8)
$50,000 - $74,999	5.7	(4.6-7.0)	6.1	(5.0-7.5)	10.9	(9.3-12.7)
$75,000 +	5.6	(4.8-6.6)	5.2	(4.4-6.1)	9.8	(8.7-11.1)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 8,914)
[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 = 8,918)
[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 = 8,903)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 35: Diabetes 2015 Michigan BRFS		
	Ever Told Diabetes[a]	
	%	95% Confidence Interval
Total	**10.7**	**(10.0-11.5)**
Age		
18 – 24	--[b]	--[b]
25 – 34	3.2	(2.0-4.9)
35 – 44	6.8	(5.1-8.9)
45 – 54	10.2	(8.4-12.3)
55 – 64	15.6	(13.7-17.6)
65 – 74	22.9	(20.4-25.5)
75 +	21.2	(18.2-24.5)
Gender		
Male	11.5	(10.4-12.7)
Female	10.0	(9.1-11.0)
Race/Ethnicity		
White non-Hispanic	10.4	(9.6-11.3)
Black non-Hispanic	13.3	(11.0-16.0)
Other non-Hispanic	7.8	(5.5-10.8)
Hispanic	10.1	(6.5-15.4)
Education		
Less than high school	16.9	(13.4-21.0)
High school graduate	12.2	(10.8-13.7)
Some college	9.9	(8.8-11.1)
College graduate	7.3	(6.4-8.2)
Household Income		
< $20,000	15.5	(13.2-18.1)
$20,000 - $34,999	14.1	(12.3-16.3)
$35,000 - $49,999	11.4	(9.4-13.8)
$50,000 - $74,999	9.6	(7.7-11.9)
$75,000 +	5.9	(4.9-7.0)

[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 = 8,918)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 36: Kidney Disease 2015 Michigan BRFS	Ever Told Kidney Disease[a]	
	%	95% Confidence Interval
Total	**3.4**	**(3.0-3.9)**
Age		
18 – 24	--[b]	--[b]
25 – 34	1.1	(0.6-2.0)
35 – 44	2.0	(1.2-3.0)
45 – 54	2.3	(1.6-3.3)
55 – 64	4.5	(3.5-5.8)
65 – 74	7.0	(5.6-8.7)
75 +	8.7	(6.8-11.0)
Gender		
Male	3.1	(2.5-3.7)
Female	3.8	(3.2-4.4)
Race/Ethnicity		
White non-Hispanic	3.4	(3.0-3.9)
Black non-Hispanic	4.6	(3.3-6.4)
Other non-Hispanic	2.3	(1.2-4.1)
Hispanic	--[b]	--[b]
Education		
Less than high school	4.5	(2.9-6.9)
High school graduate	3.8	(3.1-4.6)
Some college	3.3	(2.7-4.1)
College graduate	2.7	(2.2-3.3)
Household Income		
< $20,000	5.5	(4.2-7.0)
$20,000 - $34,999	5.0	(3.9-6.4)
$35,000 - $49,999	3.6	(2.5-5.0)
$50,000 - $74,999	2.6	(1.7-3.8)
$75,000 +	1.9	(1.4-2.5)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease. (N = 8,907)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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

Table 37: Depression 2015 Michigan BRFS	Ever Told Depression[a]	
	%	**95% Confidence Interval**
Total	**19.7**	**(18.7-20.8)**
Age		
18 – 24	14.2	(11.3-17.6)
25 – 34	22.6	(19.7-25.9)
35 – 44	21.3	(18.5-24.3)
45 – 54	23.1	(20.6-25.8)
55 – 64	23.4	(21.1-25.7)
65 – 74	16.7	(14.7-19.0)
75 +	11.5	(9.4-14.1)
Gender		
Male	14.4	(13.1-15.9)
Female	24.6	(23.1-26.2)
Race/Ethnicity		
White non-Hispanic	19.6	(18.5-20.7)
Black non-Hispanic	19.3	(16.3-22.7)
Other non-Hispanic	20.6	(16.1-25.9)
Hispanic	21.9	(15.9-29.4)
Education		
Less than high school	27.6	(23.0-32.7)
High school graduate	20.2	(18.4-22.1)
Some college	20.6	(18.9-22.4)
College graduate	14.5	(13.2-16.0)
Household Income		
< $20,000	33.2	(29.8-36.7)
$20,000 - $34,999	22.9	(20.2-25.8)
$35,000 - $49,999	18.7	(16.0-21.8)
$50,000 - $74,999	17.1	(14.7-19.7)
$75,000 +	13.0	(11.5-14.7)

[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 = 8,891)

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