Prevalence Estimates for Risk Factors and Health Indicators

State of Michigan

Selected Tables

Michigan Behavioral Risk Factor Survey

2023

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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 ICF Macro Inc., and the Michigan Department of Health and Human Services. Michigan BRFS data contribute to the national Behavioral Risk Factor Surveillance System (BRFSS) that is managed by the PHSB at the CDC.

In 2023, the total sample size of completed interviews for the core survey was 9,978 (land line = 2,709; cell phone = 7,269). 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 9,978. 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 2023 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 2023 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 2023 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 2011-2022 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 us via MIBRFSS@michigan.gov.

Table 1: Health Status **2023 Michigan BRFS**		
	General Health, Fair or Poor[a]	
	%	**95% Confidence Interval**
Total	**19.0**	**(17.9-20.1)**
Age		
18 – 24	10.5	(7.7-14.1)
25 – 34	16.5	(13.5-19.9)
35 – 44	15.2	(12.7-18.0)
45 – 54	18.4	(15.7-21.5)
55 – 64	24.5	(22.0-27.2)
65 – 74	22.2	(19.9-24.8)
75 +	25.5	(22.7-28.5)
Gender		
Male	18.7	(17.3-20.3)
Female	19.2	(17.7-20.7)
Race/Ethnicity		
White non-Hispanic	18.1	(16.9-19.3)
Black non-Hispanic	26.3	(22.7-30.3)
Other non-Hispanic	14.8	(11.4-19.0)
Hispanic	18.8	(13.9-24.9)
Education		
Less than high school	32.2	(26.7-38.2)
High school graduate	22.9	(20.9-25.1)
Some college	19.9	(18.1-21.9)
College graduate	9.6	(8.6-10.8)
Household Income		
< $20,000	41.0	(36.2-45.9)
$20,000 - $34,999	27.7	(24.6-31.2)
$35,000 - $49,999	21.5	(18.2-25.2)
$50,000 - $74,999	15.6	(13.0-18.5)
$75,000 +	8.1	(6.9-9.4)

[a] Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 9,955)

Table 2: Health Status on at Least 14 Days in the Past Month
2023 Michigan BRFS

	Poor Physical Health[a]		Poor Mental Health[b]		Activity Limitation[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**14.0**	**(13.0-14.9)**	**17.1**	**(16.0-18.3)**	**11.3**	**(10.4-12.2)**
Age						
18 – 24	6.8	(4.3-10.6)	29.6	(24.9-34.8)	9.1	(6.5-12.5)
25 – 34	10.0	(7.7-12.9)	22.3	(19.2-25.8)	12.3	(9.8-15.4)
35 – 44	11.4	(9.1-14.3)	17.8	(15.3-20.6)	9.3	(7.4-11.6)
45 – 54	15.5	(13.0-18.4)	17.6	(15.1-20.4)	12.2	(10.0-14.8)
55 – 64	19.3	(17.0-21.8)	15.0	(12.9-17.3)	13.2	(11.3-15.4)
65 – 74	17.5	(15.3-19.9)	9.5	(8.0-11.3)	11.6	(9.8-13.7)
75 +	16.8	(14.6-19.3)	7.3	(5.7-9.3)	10.4	(8.6-12.6)
Gender						
Male	12.8	(11.5-14.2)	14.7	(13.2-16.3)	10.6	(9.4-12.0)
Female	15.0	(13.7-16.5)	19.4	(17.9-21.0)	11.8	(10.7-13.1)
Race/Ethnicity						
White non-Hispanic	14.2	(13.1-15.3)	16.3	(15.1-17.6)	11.0	(10.1-12.0)
Black non-Hispanic	14.8	(12.1-18.1)	19.9	(16.5-23.7)	15.3	(12.4-18.8)
Other non-Hispanic	11.3	(8.3-15.3)	17.5	(13.2-22.8)	8.5	(5.8-12.2)
Hispanic	9.9	(6.6-14.8)	20.6	(15.5-26.9)	8.5	(5.4-13.2)
Education						
Less than high school	23.1	(17.9-29.3)	21.7	(16.9-27.5)	20.6	(16.1-25.9)
High school graduate	15.2	(13.5-17.1)	20.8	(18.6-23.1)	12.4	(10.9-14.2)
Some college	15.9	(14.2-17.7)	18.8	(16.8-20.8)	12.6	(11.0-14.3)
College graduate	7.5	(6.7-8.5)	10.0	(8.9-11.2)	5.6	(4.9-6.5)
Household Income						
< $20,000	33.3	(28.6-38.5)	29.6	(25.3-34.3)	30.5	(26.1-35.2)
$20,000 - $34,999	20.5	(17.7-23.5)	24.8	(21.7-28.2)	17.8	(15.1-20.7)
$35,000 - $49,999	13.0	(10.4-16.1)	18.7	(15.4-22.6)	10.9	(8.6-13.7)
$50,000 - $74,999	11.6	(9.3-14.4)	15.1	(12.5-18.1)	7.0	(5.4-9.1)
$75,000 +	6.7	(5.6-8.0)	11.0	(9.4-12.8)	5.3	(4.2-6.7)

[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 = 9,702)
[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 = 9,794)
[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 = 9,872)

Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations

2023 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	**4.6**	**(4.4-4.8)**	**5.4**	**(5.2-5.7)**	**3.6**	**(3.4-3.8)**
Age						
18 - 24	3.0	(2.4-3.7)	8.8	(7.7-9.9)	3.4	(2.7-4.0)
25 - 34	3.6	(2.9-4.2)	7.4	(6.6-8.2)	4.0	(3.4-4.7)
35 - 44	3.8	(3.1-4.5)	6.0	(5.4-6.7)	3.3	(2.7-3.8)
45 - 54	4.9	(4.2-5.6)	5.5	(4.8-6.2)	3.8	(3.2-4.4)
55 - 64	5.9	(5.3-6.6)	4.6	(4.1-5.2)	3.9	(3.4-4.4)
65 - 74	5.6	(5.0-6.2)	3.0	(2.6-3.4)	3.3	(2.9-3.8)
75 +	5.4	(4.8-6.1)	2.6	(2.1-3.0)	3.1	(2.6-3.6)
Gender						
Male	4.3	(3.9-4.6)	4.7	(4.3-5.1)	3.3	(2.9-3.6)
Female	4.9	(4.6-5.3)	6.2	(5.8-6.5)	3.9	(3.6-4.2)
Race/Ethnicity						
White non-Hispanic	4.7	(4.4-4.9)	5.2	(4.9-5.5)	3.5	(3.3-3.7)
Black non-Hispanic	4.9	(4.1-5.6)	6.1	(5.2-6.9)	4.4	(3.7-5.1)
Other non-Hispanic	3.8	(3.0-4.5)	5.6	(4.5-6.8)	2.8	(2.1-3.6)
Hispanic	3.8	(2.6-4.9)	6.8	(5.3-8.3)	3.4	(2.3-4.5)
Education						
Less than high school	7.0	(5.5-8.4)	6.5	(5.3-7.8)	6.0	(4.8-7.2)
High school graduate	5.0	(4.5-5.4)	6.3	(5.7-6.8)	4.0	(3.6-4.4)
Some college	5.2	(4.8-5.7)	5.9	(5.4-6.4)	3.9	(3.5-4.3)
College graduate	2.8	(2.6-3.0)	3.8	(3.5-4.1)	2.0	(1.8-2.2)
Household Income						
< $20,000	9.7	(8.4-11.0)	8.9	(7.8-10.0)	8.7	(7.7-9.8)
$20,000 - $34,999	6.4	(5.6-7.1)	7.3	(6.5-8.1)	5.3	(4.6-5.9)
$35,000 - $49,999	4.6	(4.0-5.2)	6.1	(5.2-6.9)	3.8	(3.1-4.4)
$50,000 - $74,999	3.8	(3.2-4.4)	4.8	(4.2-5.4)	2.5	(2.0-2.9)
$75,000 +	2.5	(2.2-2.8)	4.0	(3.6-4.4)	1.9	(1.6-2.2)

[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 = 9,702)

[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 = 9,794)

[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 = 9,872)

Table 4: Disability
2023 Michigan BRFS

	Total Disability[a]	
	%	**95% Confidence Interval**
Total	**30.9**	**(29.7-32.3)**
Age		
18 - 24	24.8	(20.5-29.6)
25 - 34	27.3	(23.7-31.3)
35 - 44	21.3	(18.1-24.8)
45 - 54	28.5	(25.1-32.2)
55 - 64	32.8	(30.0-35.8)
65 - 74	36.7	(34.0-39.5)
75 +	49.7	(46.5-52.8)
Gender		
Male	29.2	(27.4-31.1)
Female	32.6	(30.8-34.5)
Race/Ethnicity		
White non-Hispanic	30.1	(28.7-31.5)
Black non-Hispanic	39.7	(35.3-44.3)
Other non-Hispanic	26.6	(21.7-32.2)
Hispanic	27.2	(21.3-34.0)
Education		
Less than high school	47.5	(41.1-54.1)
High school graduate	37.4	(34.8-40.0)
Some college	32.9	(30.7-35.3)
College graduate	17.0	(15.7-18.4)
Household Income		
< $20,000	63.4	(58.5-68.1)
$20,000 - $34,999	47.4	(43.6-51.1)
$35,000 - $49,999	34.9	(30.9-39.0)
$50,000 - $74,999	24.1	(21.1-27.4)
$75,000 +	15.9	(14.2-17.8)

[a] Among all adults, the proportion who reported having serious difficulty hearing, visual impairment, difficulty concentrating, remembering, or making decisions, difficulty walking or climbing stairs, difficulty dressing or bating, or difficulty doing errands alone. (N = 9,522)

Table 5: Weight Status
2023 Michigan BRFS

	Obese[a]		Overweight[b]		Healthy Weight[c]		Underweight[d]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**35.4**	**(34.0-36.8)**	**33.4**	**(32.0-34.7)**	**29.2**	**(27.8-30.5)**	**2.1**	**(1.7-2.6)**
Age								
18 - 24	19.8	(16.0-24.3)	22.9	(18.9-27.5)	51.4	(46.0-56.8)	5.8	(3.7-9.0)
25 - 34	36.1	(32.1-40.2)	27.7	(24.1-31.6)	33.5	(29.6-37.5)	2.8	(1.6-4.8)
35 - 44	37.3	(33.7-41.1)	39.0	(35.2-42.8)	22.6	(19.6-25.9)	--[e]	--[e]
45 - 54	45.2	(41.5-49.0)	34.1	(30.5-37.9)	20.1	(17.2-23.4)	--[e]	--[e]
55 - 64	40.9	(37.9-44.0)	34.1	(31.3-37.1)	23.4	(20.8-26.2)	1.6	(1.0-2.7)
65 - 74	35.9	(33.2-38.8)	36.9	(34.1-39.7)	25.4	(22.9-28.0)	1.8	(1.2-2.7)
75 +	28.7	(25.8-31.8)	38.6	(35.5-41.7)	31.5	(28.6-34.6)	--[e]	--[e]
Gender								
Male	33.3	(31.5-35.3)	37.9	(36.0-39.9)	27.0	(25.1-28.9)	1.8	(1.2-2.6)
Female	37.5	(35.6-39.5)	28.7	(26.9-30.6)	31.4	(29.5-33.4)	2.4	(1.8-3.1)
Race/Ethnicity								
White non-Hispanic	34.7	(33.2-36.2)	33.8	(32.4-35.3)	29.9	(28.4-31.4)	1.6	(1.2-2.0)
Black non-Hispanic	43.8	(39.3-48.4)	34.5	(30.2-39.0)	19.4	(16.0-23.2)	--[e]	--[e]
Other non-Hispanic	25.0	(20.3-30.5)	30.2	(24.9-36.1)	37.4	(31.4-43.8)	7.4	(4.3-12.4)
Hispanic	43.0	(35.5-50.7)	29.5	(23.6-36.2)	25.9	(19.7-33.2)	--[e]	--[e]
Education								
< High school	33.7	(27.7-40.3)	30.1	(24.3-36.6)	34.0	(27.7-40.8)	--[e]	--[e]
High school graduate	36.4	(33.8-39.0)	31.6	(29.1-34.2)	29.1	(26.5-31.7)	3.0	(2.0-4.3)
Some college	38.4	(36.0-41.0)	33.6	(31.3-36.1)	26.1	(23.8-28.6)	1.8	(1.2-2.7)
College graduate	31.3	(29.5-33.2)	36.1	(34.1-38.0)	31.1	(29.3-33.1)	1.5	(1.0-2.1)
Household Income								
< $20,000	40.7	(35.7-45.9)	29.2	(24.6-34.4)	26.2	(22.1-30.9)	3.8	(2.2-6.4)
$20,000 - $34,999	40.9	(37.2-44.7)	30.8	(27.6-34.3)	26.5	(23.1-30.1)	--[e]	--[e]
$35,000 - $49,999	35.8	(31.7-40.1)	35.1	(31.0-39.5)	26.3	(22.4-30.5)	--[e]	--[e]
$50,000 - $74,999	36.1	(32.7-39.6)	35.9	(32.4-39.6)	26.6	(23.4-30.2)	1.4	(0.7-2.6)
$75,000 +	34.0	(31.8-36.3)	35.2	(33.0-37.4)	29.4	(27.2-31.8)	1.4	(0.9-2.3)

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 = 9,087)

[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 Coverage
2023 Michigan BRFS

	No Health Care Coverage[a] (Among 18 - 64 year olds)	
	%	95% Confidence Interval
Total	**5.9**	**(5.1-6.9)**
Age		
18 - 24	8.4	(5.7-12.2)
25 - 34	10.3	(7.9-13.3)
35 - 44	3.9	(2.8-5.4)
45 - 54	4.7	(3.3-6.7)
55 - 64	3.0	(2.1-4.4)
Gender		
Male	7.8	(6.4-9.4)
Female	4.1	(3.2-5.3)
Race/Ethnicity		
White non-Hispanic	5.4	(4.5-6.5)
Black non-Hispanic	4.1	(2.3-7.1)
Other non-Hispanic	--[b]	--[b]
Hispanic	15.1	(10.2-21.9)
Education		
Less than high school	12.3	(8.0-18.5)
High school graduate	7.3	(5.6-9.3)
Some college	5.9	(4.5-7.6)
College graduate	2.5	(1.8-3.5)
Household Income		
< $20,000	10.0	(6.6-14.9)
$20,000 - $34,999	9.5	(6.9-12.9)
$35,000 - $49,999	10.4	(7.4-14.6)
$50,000 - $74,999	5.2	(3.5-7.7)
$75,000 +	3.0	(2.0-4.5)

[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 = 5,462)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 7: Health Care Coverage Type[a]
2023 Michigan BRFS

	Private Insurance On Their Own		Medicaid		Medicare		Employer Sponsored Plan		State Sponsored Health Plan		No Health Care Coverage	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**7.7**	**(7.0-8.5)**	**12.6**	**(11.6-13.7)**	**24.1**	**(23.1-25.1)**	**43.1**	**(41.8-44.5)**	**2.7**	**(2.3-3.2)**	**4.4**	**(3.8-5.2)**
Age												
18 - 24	15.6	(11.9-20.0)	19.7	(15.4-24.9)	7.0	(4.6-10.4)	42.5	(37.1-48.2)	--[b]	--[b]	8.4	(5.7-12.2)
25 - 34	7.0	(5.0-9.6)	19.1	(15.9-22.7)	3.0	(1.8-5.0)	51.8	(47.7-55.9)	4.3	(3.0-6.3)	10.3	(7.9-13.3)
35 - 44	5.6	(4.2-7.5)	17.3	(14.5-20.5)	4.6	(2.8-7.2)	60.0	(56.3-63.7)	3.0	(2.0-4.5)	3.9	(2.8-5.4)
45 - 54	6.4	(4.9-8.2)	14.9	(12.5-17.8)	7.0	(5.4-9.1)	59.5	(55.8-63.1)	2.4	(1.5-3.7)	4.7	(3.3-6.7)
55 - 64	10.5	(8.8-12.4)	11.5	(9.5-13.8)	12.9	(11.0-15.0)	50.7	(47.6-53.7)	3.9	(2.8-5.4)	3.0	(2.1-4.4)
65 - 74	3.4	(2.6-4.5)	3.2	(2.3-4.4)	73.6	(71.1-76.0)	14.4	(12.6-16.4)	1.3	(0.8-2.2)	--[b]	--[b]
75 +	6.9	(5.5-8.6)	--[b]	--[b]	74.8	(71.9-77.5)	10.6	(8.6-12.9)	0.9	(0.6-1.4)	--[b]	--[b]
Gender												
Male	7.3	(6.3-8.4)	9.7	(8.4-11.2)	21.3	(19.9-22.8)	46.4	(44.4-48.4)	2.6	(2.0-3.3)	6.0	(5.0-7.2)
Female	8.2	(7.1-9.4)	15.4	(13.9-17.0)	26.7	(25.2-28.2)	40.1	(38.2-42.0)	2.8	(2.2-3.5)	3.0	(2.3-3.9)
Race/Ethnicity												
White non-Hispanic	8.3	(7.4-9.2)	9.8	(8.8-10.9)	26.7	(25.5-27.9)	43.8	(42.3-45.4)	2.6	(2.2-3.2)	3.9	(3.3-4.7)
Black non-Hispanic	5.2	(3.6-7.4)	23.1	(19.4-27.3)	22.5	(19.3-26.1)	36.9	(32.6-41.3)	3.3	(2.0-5.5)	3.2	(1.8-5.6)
Other non-Hispanic	7.8	(5.1-11.7)	16.6	(12.4-21.8)	10.8	(8.2-14.1)	48.4	(42.4-54.5)	--[b]	--[b]	--[b]	--[b]
Hispanic	5.4	(3.1-9.2)	18.2	(12.8-25.2)	11.0	(7.2-16.5)	45.5	(38.1-53.1)	--[b]	--[b]	14.0	(9.4-20.3)
Education												
< High school	4.8	(2.6-8.7)	32.9	(27.0-39.5)	25.2	(20.0-31.2)	16.9	(12.0-23.2)	--[b]	--[b]	9.8	(6.4-14.7)
High school	8.2	(6.8-9.9)	17.3	(15.1-19.6)	25.5	(23.5-27.6)	33.8	(31.3-36.5)	3.6	(2.7-4.8)	5.5	(4.2-7.0)
Some college	8.1	(6.7-9.7)	10.8	(9.3-12.6)	27.1	(25.1-29.1)	41.7	(39.2-44.2)	2.6	(2.0-3.5)	4.2	(3.2-5.4)
College graduate	7.6	(6.5-8.7)	4.1	(3.3-5.0)	18.8	(17.6-20.0)	62.2	(60.3-64.0)	1.7	(1.3-2.3)	2.0	(1.4-2.7)
Household Income												
< $20,000	2.9	(1.8-4.9)	37.8	(32.9-43.0)	34.7	(29.9-39.8)	5.3	(3.2-8.5)	5.6	(3.7-8.5)	8.1	(5.4-12.0)
$20,000 - $34,999	7.1	(5.4-9.5)	25.6	(22.2-29.3)	33.7	(30.4-37.1)	17.0	(14.2-20.3)	4.4	(3.2-6.2)	6.6	(4.8-9.0)
$35,000 - $49,999	8.6	(6.4-11.4)	16.0	(12.5-20.3)	28.9	(25.7-32.3)	29.6	(25.8-33.7)	1.8	(1.1-2.9)	7.0	(4.9-9.9)
$50,000 - $74,999	8.1	(6.4-10.3)	6.3	(4.4-9.1)	23.5	(21.0-26.2)	50.0	(46.3-53.6)	2.3	(1.5-3.7)	3.7	(2.4-5.4)
$75,000 +	7.5	(6.3-8.9)	0.8	(0.5-1.2)	10.8	(9.7-11.9)	73.2	(71.0-75.2)	1.3	(0.8-2.0)	2.5	(1.7-3.8)

[a] Among all adults, the proportion who reported currently having each of the above health care coverage types. (N = 9,478)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 8: Health Care Access
2023 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	**12.0**	**(11.0-13.1)**	**9.2**	**(8.4-10.1)**
Age				
18 – 24	29.7	(25.2-34.6)	11.9	(9.1-15.3)
25 – 34	22.1	(19.0-25.5)	16.2	(13.3-19.6)
35 – 44	15.0	(12.3-18.3)	9.1	(7.3-11.3)
45 – 54	8.2	(6.4-10.4)	9.7	(7.6-12.3)
55 – 64	5.3	(4.1-6.9)	8.5	(6.9-10.3)
65 – 74	2.6	(1.8-3.7)	4.1	(3.1-5.4)
75 +	2.2	(1.4-3.6)	3.5	(2.4-5.1)
Gender				
Male	15.6	(14.1-17.2)	8.7	(7.6-10.0)
Female	8.6	(7.4-10.0)	9.7	(8.5-11.0)
Race/Ethnicity				
White non-Hispanic	10.8	(9.7-12.0)	8.0	(7.2-9.0)
Black non-Hispanic	11.8	(9.1-15.3)	10.9	(8.4-13.9)
Other non-Hispanic	17.0	(13.1-21.6)	13.2	(9.3-18.3)
Hispanic	23.2	(17.6-29.9)	16.0	(11.8-21.2)
Education				
Less than high school	18.0	(13.3-24.0)	11.2	(8.0-15.5)
High school graduate	16.0	(14.0-18.1)	10.8	(9.2-12.6)
Some college	10.6	(9.0-12.4)	10.2	(8.7-11.9)
College graduate	7.7	(6.6-8.9)	5.9	(5.0-7.0)
Household Income				
< $20,000	14.8	(11.1-19.4)	16.7	(13.3-20.6)
$20,000 - $34,999	15.5	(12.7-18.8)	17.3	(14.5-20.5)
$35,000 - $49,999	16.2	(12.9-20.2)	14.5	(11.4-18.3)
$50,000 - $74,999	13.3	(10.8-16.4)	7.0	(5.3-9.1)
$75,000 +	8.4	(7.1-10.0)	3.8	(2.9-5.0)

[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 = 9,882)
[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 = 9,948)

Table 9: No Leisure Time Physical Activity
2023 Michigan BRFS

	No Leisure Time Physical Activity[a]	
	%	**95% Confidence Interval**
Total	**25.3**	**(24.0-26.5)**
Age		
18 – 24	14.2	(10.9-18.3)
25 – 34	22.1	(18.7-25.9)
35 – 44	20.5	(17.4-24.0)
45 – 54	26.6	(23.3-30.1)
55 – 64	28.8	(26.1-31.7)
65 – 74	28.5	(26.0-31.2)
75 +	37.8	(34.8-40.9)
Gender		
Male	22.7	(21.0-24.5)
Female	27.7	(26.0-29.4)
Race/Ethnicity		
White non-Hispanic	24.2	(22.9-25.5)
Black non-Hispanic	30.8	(27.0-34.8)
Other non-Hispanic	21.7	(17.0-27.4)
Hispanic	27.6	(21.4-34.8)
Education		
Less than high school	49.7	(43.3-56.1)
High school graduate	30.3	(28.0-32.7)
Some college	24.6	(22.6-26.7)
College graduate	13.2	(11.9-14.5)
Household Income		
< $20,000	48.5	(43.5-53.6)
$20,000 - $34,999	32.3	(29.0-35.7)
$35,000 - $49,999	28.3	(24.4-32.6)
$50,000 - $74,999	21.7	(18.9-24.9)
$75,000 +	13.3	(11.7-15.1)

[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 = 9,941)

Table 10: Cigarette Smoking
2023 Michigan BRFS

	Current Smoking[a]		Former Smoking[b]		Never Smoked	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**13.6**	**(12.6-14.7)**	**26.9**	**(25.7-28.1)**	**59.5**	**(58.1-60.9)**
Age						
18 – 24	6.7	(4.4-10.1)	5.7	(3.6-9.0)	87.5	(83.4-90.8)
25 – 34	14.4	(11.6-17.7)	17.6	(14.7-20.9)	68.0	(64.0-71.7)
35 – 44	18.9	(15.9-22.3)	28.2	(25.1-31.6)	52.9	(49.1-56.7)
45 – 54	15.4	(12.8-18.3)	24.6	(21.6-27.9)	60.0	(56.3-63.6)
55 – 64	19.0	(16.6-21.6)	29.5	(26.7-32.4)	51.5	(48.4-54.6)
65 – 74	12.2	(10.5-14.2)	39.3	(36.6-42.1)	48.4	(45.7-51.2)
75 +	4.4	(3.2-6.1)	44.8	(41.6-48.0)	50.8	(47.6-54.0)
Gender						
Male	14.0	(12.6-15.5)	30.5	(28.8-32.4)	55.5	(53.5-57.5)
Female	13.3	(11.9-14.8)	23.4	(21.9-25.0)	63.3	(61.4-65.1)
Race/Ethnicity						
White non-Hispanic	13.3	(12.2-14.5)	29.9	(28.5-31.3)	56.8	(55.3-58.3)
Black non-Hispanic	17.9	(14.6-21.7)	16.8	(13.8-20.2)	65.3	(61.0-69.5)
Other non-Hispanic	10.9	(7.8-15.1)	21.7	(17.5-26.6)	67.4	(61.8-72.5)
Hispanic	12.7	(8.9-17.8)	17.4	(12.6-23.5)	69.9	(63.1-76.0)
Education						
Less than high school	28.7	(23.1-35.1)	33.7	(27.9-40.1)	37.6	(31.2-44.3)
High school graduate	16.9	(15.1-19.0)	28.6	(26.4-30.9)	54.5	(51.8-57.1)
Some college	13.7	(12.1-15.4)	28.4	(26.3-30.6)	57.9	(55.5-60.4)
College graduate	5.6	(4.7-6.6)	21.4	(19.9-22.9)	73.0	(71.3-74.7)
Household Income						
< $20,000	31.3	(26.6-36.5)	26.5	(22.4-31.0)	42.2	(37.3-47.3)
$20,000 - $34,999	21.9	(18.9-25.3)	26.6	(23.6-29.7)	51.5	(47.8-55.3)
$35,000 - $49,999	15.8	(12.8-19.2)	29.1	(25.6-33.0)	55.1	(50.8-59.4)
$50,000 - $74,999	12.0	(9.8-14.7)	30.3	(27.1-33.8)	57.6	(54.0-61.2)
$75,000 +	6.5	(5.4-7.9)	25.8	(23.9-27.9)	67.7	(65.4-69.8)

[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 = 9,461)
[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 = 9,461)

Table 11: Current Smokers Who Attempted to Quit
2023 Michigan BRFS

	Tried to Quit Smoking One Day or Longer in Past Year[a]	
	%	**95% Confidence Interval**
Total	**50.3**	**(44.0-56.6)**
Age		
18 – 24	--[b]	--[b]
25 – 34	60.5	(42.3-76.2)
35 – 44	45.8	(30.5-62.0)
45 – 54	41.0	(26.6-57.2)
55 – 64	47.7	(36.4-59.3)
65 – 74	62.1	(50.5-72.5)
75 +	36.6	(18.8-58.9)
Gender		
Male	55.3	(46.6-63.7)
Female	45.6	(37.0-54.5)
Race/Ethnicity		
White non-Hispanic	46.7	(39.5-54.0)
Black non-Hispanic	63.9	(48.2-77.1)
Other non-Hispanic	51.7	(29.0-73.7)
Hispanic	--[b]	--[b]
Education		
Less than high school	48.6	(31.3-66.3)
High school graduate	53.2	(44.5-61.9)
Some college	52.9	(42.9-62.7)
College graduate	36.5	(24.8-50.1)
Household Income		
< $20,000	54.0	(36.5-70.6)
$20,000 - $34,999	57.7	(45.6-68.9)
$35,000 - $49,999	50.9	(35.3-66.4)
$50,000 - $74,999	44.6	(29.2-61.2)
$75,000 +	45.4	(32.1-59.3)

[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 = 443)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 12: E-Cigarette Use
2023 Michigan BRFS

	Current E-Cigarette Use[a]	
	%	**95% Confidence Interval**
Total	**8.5**	**(7.6-9.4)**
Age		
18 – 24	20.2	(16.2-24.8)
25 – 34	15.2	(12.5-18.5)
35 – 44	12.6	(10.2-15.4)
45 – 54	6.3	(4.7-8.5)
55 – 64	3.4	(2.3-5.0)
65 – 74	1.0	(0.6-1.7)
75 +	--[b]	--[b]
Gender		
Male	9.8	(8.5-11.4)
Female	7.1	(6.1-8.3)
Race/Ethnicity		
White non-Hispanic	8.1	(7.2-9.1)
Black non-Hispanic	9.5	(6.6-13.3)
Other non-Hispanic	10.0	(6.7-14.6)
Hispanic	9.5	(5.9-14.9)
Education		
Less than high school	14.2	(9.9-20.0)
High school graduate	12.0	(10.2-14.1)
Some college	7.3	(6.0-8.8)
College graduate	4.6	(3.7-5.6)
Household Income		
< $20,000	10.9	(8.0-14.6)
$20,000 - $34,999	12.1	(9.5-15.3)
$35,000 - $49,999	11.3	(8.4-15.1)
$50,000 - $74,999	8.1	(6.1-10.5)
$75,000 +	6.6	(5.4-8.2)

[a] Among all adults, the proportion who reported that they currently use e-cigarettes or other electronic vaping products, either every day or on some days. (N = 9,437)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 13: Smokeless Tobacco Use
2023 Michigan BRFS

	Current Smokeless Tobacco Use[a]	
	%	**95% Confidence Interval**
Total	**2.5**	**(2.1-3.1)**
Age		
18 – 24	--[b]	--[b]
25 – 34	4.0	(2.6-6.2)
35 – 44	4.5	(3.0-6.6)
45 – 54	2.3	(1.6-3.4)
55 – 64	1.6	(1.0-2.5)
65 – 74	1.5	(0.9-2.4)
75 +	--[b]	--[b]
Gender		
Male	4.2	(3.4-5.2)
Female	--[b]	--[b]
Race/Ethnicity		
White non-Hispanic	2.5	(2.0-3.0)
Black non-Hispanic	--[b]	--[b]
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education		
Less than high school	--[b]	--[b]
High school graduate	3.4	(2.6-4.5)
Some college	2.2	(1.5-3.2)
College graduate	1.4	(1.0-1.9)
Household Income		
< $20,000	3.4	(2.0-5.9)
$20,000 - $34,999	3.4	(2.0-5.7)
$35,000 - $49,999	2.1	(1.2-3.7)
$50,000 - $74,999	--[b]	--[b]
$75,000 +	2.7	(1.9-3.7)

[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 = 9,495)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 14: Hookah Use
2023 Michigan BRFS

	Current Hookah Use[a]	
	%	**95% Confidence Interval**
Total	**1.5**	**(1.0-2.5)**
Age		
18 – 24	--[b]	--[b]
25 – 34	--[b]	--[b]
35 – 44	--[b]	--[b]
45 – 54	--[b]	--[b]
55 – 64	--[b]	--[b]
65 – 74	--[b]	--[b]
75 +	--[b]	--[b]
Gender		
Male	--[b]	--[b]
Female	--[b]	--[b]
Race/Ethnicity		
White non-Hispanic	--[b]	--[b]
Black non-Hispanic	--[b]	--[b]
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education		
Less than high school	--[b]	--[b]
High school graduate	--[b]	--[b]
Some college	--[b]	--[b]
College graduate	--[b]	--[b]
Household Income		
< $20,000	--[b]	--[b]
$20,000 - $34,999	--[b]	--[b]
$35,000 - $49,999	--[b]	--[b]
$50,000 - $74,999	--[b]	--[b]
$75,000 +	--[b]	--[b]

[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 = 4,373)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 15: Alcohol Consumption
2023 Michigan BRFS

	Any Alcohol in Past Month[a]		Heavy Drinking[b]		Binge Drinking[c]	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**52.2**	**(50.8-53.6)**	**5.8**	**(5.1-6.5)**	**15.2**	**(14.1-16.2)**
Age						
18 – 24	48.6	(43.3-53.9)	7.9	(5.3-11.6)	20.6	(16.7-25.2)
25 – 34	59.2	(54.9-63.3)	5.0	(3.5-7.0)	21.3	(18.2-24.7)
35 – 44	63.4	(59.6-67.1)	9.0	(6.9-11.7)	25.4	(22.1-28.9)
45 – 54	54.2	(50.4-58.1)	6.2	(4.8-8.0)	15.3	(12.9-18.0)
55 – 64	51.6	(48.5-54.6)	6.1	(4.9-7.6)	11.6	(9.8-13.6)
65 – 74	48.1	(45.3-51.0)	4.4	(3.4-5.7)	7.6	(6.2-9.3)
75 +	35.9	(33.0-38.9)	1.6	(1.2-2.3)	2.0	(1.3-3.0)
Gender						
Male	57.0	(54.9-59.0)	5.6	(4.6-6.7)	19.3	(17.7-21.0)
Female	47.6	(45.7-49.6)	6.0	(5.2-7.0)	11.2	(10.0-12.6)
Race/Ethnicity						
White non-Hispanic	53.9	(52.3-55.4)	6.3	(5.5-7.1)	15.9	(14.8-17.1)
Black non-Hispanic	52.2	(47.6-56.8)	4.8	(3.2-7.1)	11.8	(9.1-15.3)
Other non-Hispanic	41.2	(35.4-47.2)	4.1	(2.4-6.8)	11.2	(7.7-15.9)
Hispanic	51.0	(43.6-58.4)	--[d]	--[d]	20.1	(14.4-27.3)
Education						
Less than high school	30.2	(24.3-36.8)	7.9	(4.7-12.9)	14.6	(10.1-20.5)
High school graduate	45.4	(42.6-48.1)	5.2	(4.1-6.5)	14.3	(12.5-16.4)
Some college	52.2	(49.7-54.8)	5.7	(4.6-7.0)	15.6	(13.7-17.6)
College graduate	65.9	(64.0-67.7)	6.0	(5.1-7.0)	15.8	(14.3-17.4)
Household Income						
< $20,000	31.4	(27.0-36.1)	4.9	(3.2-7.5)	10.8	(8.1-14.3)
$20,000 - $34,999	41.3	(37.6-45.2)	4.1	(2.9-5.7)	12.5	(10.1-15.2)
$35,000 - $49,999	48.9	(44.4-53.3)	7.4	(5.1-10.7)	15.7	(12.4-19.7)
$50,000 - $74,999	53.7	(50.0-57.4)	5.4	(3.9-7.3)	13.9	(11.5-16.7)
$75,000 +	67.4	(65.0-69.7)	7.2	(6.1-8.5)	20.6	(18.7-22.7)

[a] Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month. (N = 9,228)
[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 = 9,178)
[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 = 9,159)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 16: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers
2023 Michigan BRFS

	Number of Binge Drinking Occasions[a]	
	Mean	**95% Confidence Interval**
Total	**4.4**	**(4.0-4.9)**
Age		
18 – 24	4.6	(3.3-5.9)
25 – 34	4.2	(3.0-5.4)
35 – 44	4.7	(3.9-5.5)
45 – 54	4.4	(3.3-5.5)
55 – 64	4.8	(3.6-6.0)
65 – 74	4.0	(3.1-4.9)
75+	3.2	(1.7-4.7)
Gender		
Male	4.7	(4.1-5.3)
Female	4.1	(3.3-4.8)
Race/Ethnicity		
White non-Hispanic	4.6	(4.1-5.1)
Black non-Hispanic	3.8	(2.7-4.8)
Other non-Hispanic	5.0	(2.3-7.7)
Hispanic	3.5	(2.4-4.7)
Education		
Less than high school	6.4	(4.0-8.8)
High school graduate	5.2	(4.2-6.3)
Some college	4.3	(3.5-5.1)
College graduate	3.3	(3.0-3.7)
Household Income		
< $20,000	5.2	(2.8-7.5)
$20,000 - $34,999	4.9	(3.7-6.2)
$35,000 - $49,999	4.3	(2.9-5.7)
$50,000 - $74,999	5.1	(3.8-6.4)
$75,000 +	4.0	(3.4-4.6)

[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 = 1,155)

Table 17: Drove Motor Vehicle After Drinking
2023 Michigan BRFS

	Drove Motor Vehicle After Drinking[a]	
	%	**95% Confidence Interval**
Total	**1.4**	**(1.1-1.7)**
Age		
18 – 24	--[b]	--[b]
25 – 34	2.0	(1.2-3.4)
35 – 44	1.7	(1.0-3.0)
45 – 54	1.9	(1.0-3.3)
55 – 64	1.5	(0.9-2.4)
65 – 74	0.8	(0.5-1.4)
75 +	--[b]	--[b]
Gender		
Male	2.0	(1.5-2.6)
Female	0.8	(0.5-1.1)
Race/Ethnicity		
White non-Hispanic	1.4	(1.1-1.8)
Black non-Hispanic	--[b]	--[b]
Other non-Hispanic	--[b]	--[b]
Hispanic	--[b]	--[b]
Education		
Less than high school	--[b]	--[b]
High school graduate	1.4	(0.9-2.2)
Some college	1.2	(0.7-1.8)
College graduate	1.6	(1.1-2.3)
Household Income		
< $20,000	--[b]	--[b]
$20,000 - $34,999	--[b]	--[b]
$35,000 - $49,999	2.4	(1.4-4.2)
$50,000 - $74,999	1.2	(0.7-2.1)
$75,000 +	2.1	(1.5-3.0)

[a] Among adults who reporting drinking any alcohol within the past 30 days, the proportion who reported that they had driven when they'd had too much to drink at least once in the previous month. (N = 9,230)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 18: Seatbelt Use
2023 Michigan BRFS

	Always Uses a Seatbelt[a]	
	%	**95% Confidence Interval**
Total	**89.0**	**(87.9-90.0)**
Age		
18 – 24	79.5	(74.8-83.6)
25 – 34	84.3	(80.7-87.2)
35 – 44	87.9	(84.5-90.6)
45 – 54	90.1	(87.4-92.2)
55 – 64	92.7	(90.8-94.2)
65 – 74	93.7	(92.2-95.0)
75 +	93.9	(92.3-95.2)
Gender		
Male	86.1	(84.5-87.6)
Female	91.7	(90.2-92.9)
Race/Ethnicity		
White non-Hispanic	89.9	(88.8-90.9)
Black non-Hispanic	86.7	(82.9-89.7)
Other non-Hispanic	86.4	(81.4-90.3)
Hispanic	86.0	(78.9-91.0)
Education		
Less than high school	83.7	(77.3-88.5)
High school graduate	85.6	(83.4-87.5)
Some college	89.2	(87.4-90.8)
College graduate	93.8	(92.7-94.7)
Household Income		
< $20,000	82.4	(77.0-86.7)
$20,000 - $34,999	88.0	(85.0-90.5)
$35,000 - $49,999	88.6	(84.9-91.5)
$50,000 - $74,999	89.2	(86.2-91.6)
$75,000 +	91.3	(89.7-92.6)

[a] Among all adults, the proportion who reported always using a seatbelt when driving or riding in a car. (N = 9,204)

Table 19: Hypertension Awareness and Medication Use
2023 Michigan BRFS

Demographic Characteristics	Ever Told HBP[a]		Taking BP Medication[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**37.0**	**(35.7-38.3)**	**78.5**	**(76.5-80.4)**
Age				
18 – 24	5.7	(3.7-8.7)	--[c]	--[c]
25 – 34	17.8	(14.8-21.2)	29.6	(21.3-39.6)
35 – 44	22.2	(19.1-25.5)	53.3	(45.0-61.5)
45 – 54	37.4	(34.0-41.0)	71.7	(65.5-77.2)
55 – 64	52.4	(49.5-55.4)	85.1	(81.8-87.9)
65 – 74	60.5	(57.8-63.2)	92.3	(90.0-94.1)
75 +	65.6	(62.6-68.5)	95.4	(93.3-96.9)
Gender				
Male	40.3	(38.4-42.2)	73.2	(70.3-76.0)
Female	33.8	(32.2-35.6)	84.5	(81.8-86.9)
Race/Ethnicity				
White non-Hispanic	37.2	(35.8-38.6)	79.2	(76.9-81.3)
Black non-Hispanic	50.2	(45.9-54.5)	81.0	(75.3-85.6)
Other non-Hispanic	24.8	(20.5-29.8)	69.2	(57.8-78.6)
Hispanic	22.4	(17.2-28.6)	60.8	(45.9-73.9)
Education				
Less than high school	46.6	(40.3-53.1)	67.7	(57.6-76.4)
High school graduate	38.0	(35.6-40.5)	79.4	(76.0-82.4)
Some college	37.8	(35.5-40.1)	80.1	(76.7-83.1)
College graduate	32.0	(30.3-33.7)	80.1	(77.4-82.6)
Household Income				
< $20,000	49.0	(43.9-54.0)	74.2	(66.2-80.8)
$20,000 - $34,999	42.3	(38.7-45.9)	75.4	(70.0-80.1)
$35,000 - $49,999	38.7	(34.8-42.8)	82.1	(75.9-87.0)
$50,000 - $74,999	38.8	(35.4-42.3)	78.9	(73.3-83.6)
$75,000 +	29.9	(27.8-32.0)	76.4	(72.4-79.9)

[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 = 9,924)
[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 = 4,291)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 20: Cholesterol Screening and Awareness
2023 Michigan BRFS

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	**92.2**	**(91.3-93.0)**	**88.6**	**(87.5-89.6)**	**35.6**	**(34.3-36.9)**
Age						
18 – 24	72.6	(67.3-77.4)	66.6	(60.8-71.8)	8.7	(5.9-12.7)
25 – 34	83.5	(80.2-86.4)	79.6	(76.0-82.7)	17.4	(14.0-21.5)
35 – 44	91.0	(88.7-92.9)	85.8	(82.6-88.5)	22.4	(19.3-25.8)
45 – 54	96.9	(94.9-98.1)	93.4	(90.9-95.2)	33.9	(30.5-37.4)
55 – 64	98.1	(97.0-98.8)	94.7	(93.0-96.0)	46.3	(43.2-49.3)
65 – 74	--[d]	--[d]	97.5	(96.3-98.3)	56.5	(53.6-59.2)
75 +	--[d]	--[d]	96.9	(95.0-98.1)	49.3	(46.1-52.6)
Gender						
Male	90.2	(88.7-91.5)	85.6	(83.9-87.1)	36.1	(34.2-38.1)
Female	94.1	(92.9-95.0)	91.5	(90.0-92.7)	35.1	(33.3-37.0)
Race/Ethnicity						
White non-Hispanic	92.6	(91.6-93.5)	89.1	(87.9-90.3)	37.1	(35.6-38.6)
Black non-Hispanic	93.2	(90.4-95.2)	91.5	(88.3-93.9)	35.0	(30.8-39.5)
Other non-Hispanic	89.0	(84.1-92.5)	83.7	(78.5-87.8)	29.4	(24.2-35.2)
Hispanic	86.5	(80.3-90.9)	79.5	(72.5-85.0)	23.3	(17.3-30.6)
Education						
Less than high school	89.1	(84.0-92.8)	80.1	(73.4-85.4)	38.4	(31.9-45.3)
High school graduate	88.9	(86.9-90.6)	84.2	(81.9-86.2)	35.1	(32.6-37.7)
Some college	92.4	(90.7-93.8)	90.1	(88.3-91.7)	36.8	(34.4-39.3)
College graduate	96.1	(95.1-96.9)	93.7	(92.6-94.7)	33.9	(32.1-35.8)
Household Income						
< $20,000	91.1	(87.6-93.7)	85.8	(80.8-89.6)	36.2	(31.3-41.4)
$20,000 - $34,999	91.4	(89.1-93.3)	86.8	(83.8-89.3)	39.1	(35.3-43.0)
$35,000 - $49,999	90.1	(86.5-92.8)	85.6	(81.4-88.9)	39.0	(34.8-43.3)
$50,000 - $74,999	90.7	(87.9-92.9)	87.0	(83.8-89.5)	36.9	(33.4-40.5)
$75,000 +	94.0	(92.3-95.3)	91.2	(89.3-92.7)	31.1	(29.0-33.3)

[a] Among all adults, the proportion who reported ever having had their blood cholesterol checked. (N =9,436)
[b] Among all adults, the proportion who reported that they have had their blood cholesterol checked within the past five years. (N = 9,436)
[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 = 8,924)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 21: No Routine Checkup in Past Year
2023 Michigan BRFS

	Had No Routine Checkup in Past Year[a]	
	%	95% Confidence Interval
Total	**18.4**	**(17.3-19.5)**
Age		
18 - 24	28.2	(23.8-33.2)
25 - 34	30.2	(26.7-33.9)
35 - 44	26.0	(22.9-29.5)
45 - 54	17.0	(14.5-19.9)
55 - 64	12.6	(10.8-14.7)
65 - 74	7.3	(6.0-9.0)
75 +	5.7	(4.3-7.5)
Gender		
Male	22.9	(21.2-24.8)
Female	14.1	(12.7-15.5)
Race/Ethnicity		
White non-Hispanic	18.4	(17.1-19.7)
Black non-Hispanic	13.3	(10.5-16.7)
Other non-Hispanic	24.3	(19.7-29.4)
Hispanic	25.8	(20.0-32.6)
Education		
Less than high school	21.2	(16.1-27.4)
High school graduate	21.2	(19.0-23.5)
Some college	16.3	(14.5-18.3)
College graduate	17.0	(15.5-18.5)
Household Income		
< $20,000	15.8	(12.6-19.8)
$20,000 - $34,999	19.3	(16.4-22.6)
$35,000 - $49,999	21.7	(18.0-26.0)
$50,000 - $74,999	21.2	(18.1-24.7)
$75,000 +	17.8	(16.0-19.7)

[a] Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 9,871)

Table 22: Immunizations among Adults Aged 65 Years and Older
2023 Michigan BRFS

	Had Flu Vaccine in Past Year[a]		Ever Had Pneumonia Vaccine[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**64.2**	**(62.1-66.2)**	**71.9**	**(69.9-73.9)**
Age				
65 - 74	60.9	(58.1-63.7)	67.0	(64.2-69.7)
75 +	68.7	(65.6-71.7)	78.8	(75.8-81.4)
Gender				
Male	65.1	(61.9-68.2)	68.6	(65.3-71.6)
Female	63.4	(60.6-66.1)	74.6	(72.0-77.1)
Race/Ethnicity				
White non-Hispanic	67.0	(64.8-69.1)	74.3	(72.2-76.4)
Black non-Hispanic	51.1	(43.6-58.5)	58.2	(50.7-65.3)
Other non-Hispanic	47.3	(34.9-60.0)	72.1	(60.3-81.5)
Hispanic	62.9	(41.0-80.5)	54.5	(32.9-74.5)
Education				
Less than high school	56.6	(45.2-67.3)	61.7	(50.4-71.9)
High school graduate	59.3	(55.4-63.1)	68.8	(65.0-72.3)
Some college	63.3	(59.7-66.7)	70.6	(67.0-73.9)
College graduate	73.6	(70.8-76.3)	80.5	(77.9-82.8)
Household Income				
< $20,000	47.1	(39.3-54.9)	57.4	(49.1-65.3)
$20,000 - $34,999	55.5	(50.2-60.7)	66.4	(61.1-71.3)
$35,000 - $49,999	65.5	(60.2-70.4)	75.1	(70.1-79.5)
$50,000 - $74,999	69.9	(65.0-74.3)	72.3	(67.4-76.8)
$75,000 +	71.4	(67.2-75.3)	78.8	(74.7-82.4)

[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 = 3,837)
[b] Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 3,732)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 23: HIV Testing among Adults Aged 18 - 64 Years
2023 Michigan BRFS

	Ever Had an HIV Test[a]	
	%	**95% Confidence Interval**
Total	**43.2**	**(41.4-45.0)**
Age		
18 – 24	22.3	(18.1-27.1)
25 – 34	48.5	(44.2-52.7)
35 – 44	53.5	(49.6-57.4)
45 – 54	51.9	(48.0-55.8)
55 – 64	37.3	(34.3-40.4)
Gender		
Male	39.9	(37.4-42.4)
Female	46.6	(44.0-49.1)
Race/Ethnicity		
White non-Hispanic	39.7	(37.7-41.7)
Black non-Hispanic	64.9	(59.4-70.1)
Other non-Hispanic	37.6	(31.2-44.4)
Hispanic	45.0	(37.4-52.9)
Education		
Less than high school	44.8	(36.9-52.9)
High school graduate	39.4	(36.0-43.0)
Some college	43.9	(40.6-47.2)
College graduate	45.6	(43.1-48.2)
Household Income		
< $20,000	46.8	(40.7-53.0)
$20,000 - $34,999	48.6	(43.4-53.8)
$35,000 - $49,999	43.5	(37.5-49.7)
$50,000 - $74,999	42.2	(37.4-47.2)
$75,000 +	40.9	(38.2-43.6)

[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 = 5,007)

Table 24: Asthma among Adults
2023 Michigan BRFS

	Lifetime Asthma Prevalence[a]		Current Asthma Prevalence[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**17.0**	**(16.0-18.1)**	**11.0**	**(10.2-11.9)**
Age				
18 - 24	23.4	(19.2-28.2)	11.6	(8.7-15.3)
25 - 34	20.9	(17.9-24.3)	12.0	(9.6-14.8)
35 - 44	16.5	(14.1-19.2)	10.5	(8.6-12.8)
45 - 54	16.9	(14.5-19.7)	11.8	(9.7-14.1)
55 - 64	15.1	(13.1-17.3)	11.5	(9.8-13.4)
65 - 74	14.3	(12.5-16.4)	11.2	(9.6-13.1)
75 +	11.2	(9.4-13.3)	7.5	(6.1-9.2)
Gender				
Male	14.1	(12.7-15.6)	7.6	(6.7-8.8)
Female	19.7	(18.2-21.3)	14.2	(13.0-15.6)
Race/Ethnicity				
White non-Hispanic	17.2	(16.1-18.5)	10.8	(9.9-11.7)
Black non-Hispanic	17.8	(14.8-21.1)	13.3	(10.8-16.4)
Other non-Hispanic	14.2	(10.8-18.5)	9.3	(6.9-12.6)
Hispanic	15.6	(11.3-21.1)	10.2	(6.7-15.4)
Education				
Less than high school	17.7	(13.3-23.1)	10.0	(7.1-13.9)
High school graduate	16.3	(14.4-18.4)	11.1	(9.6-12.9)
Some college	18.4	(16.6-20.4)	12.4	(10.9-14.1)
College graduate	16.0	(14.6-17.5)	9.7	(8.6-10.8)
Household Income				
< $20,000	23.0	(19.2-27.4)	17.1	(13.9-21.0)
$20,000 - $34,999	19.7	(16.7-23.1)	14.1	(11.7-16.9)
$35,000 - $49,999	16.8	(14.0-20.0)	11.4	(9.1-14.1)
$50,000 - $74,999	15.8	(13.4-18.6)	9.7	(7.8-12.0)
$75,000 +	15.7	(14.0-17.5)	9.2	(8.0-10.6)

[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 = 9,930)
[b] Among all adults, the proportion who reported that they still had asthma. (N = 9,873)

Table 25: Asthma among Children
2023 Michigan BRFS

	Lifetime Asthma Prevalence[a]		Current Asthma Prevalence[b]	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	**10.5**	**(8.2-13.2)**	**7.3**	**(5.6-9.4)**
Age				
0 - 4	--[c]	--[c]	--[c]	--[c]
5 - 9	10.6	(6.2-17.4)	6.2	(3.9-9.7)
10 - 14	16.5	(10.9-24.2)	11.3	(6.7-18.5)
15 - 17	11.2	(7.3-16.8)	7.4	(4.2-12.8)
Gender				
Boy	12.1	(8.9-16.2)	9.0	(6.3-12.6)
Girl	9.0	(6.1-13.1)	5.7	(4.0-8.2)
Race/Ethnicity				
White non-Hispanic	6.4	(4.8-8.5)	4.2	(2.9-5.9)
Black non-Hispanic	22.9	(15.0-33.3)	19.0	(12.0-28.8)
Other non-Hispanic	--[c]	--[c]	--[c]	--[c]
Hispanic	11.1	(6.3-18.8)	--[c]	--[c]
Respondent Education				
Less than high school	--[c]	--[c]	--[c]	--[c]
High school graduate	12.6	(7.0-21.6)	--[c]	--[c]
Some college	8.2	(5.7-11.7)	6.7	(4.4-10.1)
College graduate	11.1	(7.9-15.4)	8.4	(5.7-12.2)
Household Income				
< $20,000	--[c]	--[c]	--[c]	--[c]
$20,000 - $34,999	8.8	(4.9-15.5)	--[c]	--[c]
$35,000 - $49,999	--[c]	--[c]	--[c]	--[c]
$50,000 - $74,999	16.4	(9.1-27.8)	--[c]	--[c]
$75,000 +	6.8	(4.6-9.8)	4.5	(3.0-6.6)

[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 = 1,639).
[b] Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 1,632)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 26: Chronic Obstructive Pulmonary Disease (COPD) **2023 Michigan BRFS**		
	Ever Told COPD, Emphysema or Chronic Bronchitis[a]	
	%	**95% Confidence Interval**
Total	**8.6**	**(7.9-9.4)**
Age		
18 - 24	1.9	(0.9-3.8)
25 - 34	2.6	(1.5-4.3)
35 - 44	4.9	(3.6-6.8)
45 - 54	8.0	(6.2-10.2)
55 - 64	12.3	(10.4-14.5)
65 - 75	16.9	(14.7-19.2)
75 +	14.5	(12.2-17.1)
Gender		
Male	8.1	(7.1-9.1)
Female	9.2	(8.2-10.3)
Race/Ethnicity		
White/Non-Hispanic	9.2	(8.4-10.1)
Black/Non-Hispanic	9.1	(7.0-11.7)
Other/Non-Hispanic	5.4	(3.6-8.1)
Hispanic	4.2	(2.5-6.8)
Education		
Less than high school	18.4	(14.3-23.2)
High school graduate	10.1	(8.9-11.5)
Some college	9.3	(8.0-10.6)
College graduate	3.4	(2.8-4.0)
Household Income		
< $20,000	21.0	(17.6-25.0)
$20,000 - $34,999	12.8	(10.7-15.3)
$35,000 - $49,999	10.8	(8.6-13.4)
$50,000 - $74,999	7.5	(5.9-9.5)
$75,000 +	3.4	(2.7-4.4)

[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 = 9,939)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 27: Arthritis **2023 Michigan BRFS**		
Demographic Characteristics	**Ever Told Arthritis[a]**	
	%	**95% Confidence Interval**
Total	**29.5**	**(28.4-30.7)**
Age		
18 - 24	2.4	(1.3-4.5)
25 - 34	7.9	(6.1-10.3)
35 - 44	17.9	(15.0-21.1)
45 - 54	28.6	(25.6-31.9)
55 - 64	43.7	(40.8-46.7)
65 - 75	53.4	(50.7-56.2)
75 +	56.6	(53.4-59.7)
Gender		
Male	25.1	(23.5-26.7)
Female	33.8	(32.2-35.5)
Race/Ethnicity		
White/Non-Hispanic	32.1	(30.7-33.4)
Black/Non-Hispanic	27.2	(23.8-30.8)
Other/Non-Hispanic	19.6	(15.8-24.1)
Hispanic	17.1	(13.0-22.3)
Education		
Less than high school	30.8	(25.5-36.6)
High school graduate	30.0	(27.9-32.2)
Some college	34.6	(32.4-36.8)
College graduate	23.2	(21.7-24.7)
Household Income		
< $20,000	42.0	(37.2-47.0)
$20,000 - $34,999	36.0	(32.8-39.5)
$35,000 - $49,999	33.5	(29.8-37.4)
$50,000 - $74,999	29.5	(26.6-32.7)
$75,000 +	20.9	(19.2-22.7)

[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 = 9,926)

Table 28: Cardiovascular Disease
2023 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	**4.6**	**(4.1-5.1)**	**4.7**	**(4.2-5.2)**	**3.9**	**(3.4-4.4)**	**9.7**	**(9.1-10.5)**
Age								
18 - 34	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]
35 - 44	--[e]	--[e]	--[e]	--[e]	2.2	(1.3-3.5)	3.8	(2.5-5.6)
45 - 54	4.1	(2.8-5.9)	2.3	(1.4-3.6)	4.5	(3.1-6.5)	8.1	(6.3-10.5)
55 - 64	7.2	(5.8-8.8)	5.7	(4.5-7.1)	5.7	(4.4-7.2)	13.7	(11.8-15.8)
65 - 74	8.9	(7.5-10.6)	10.3	(8.7-12.1)	6.1	(4.9-7.6)	19.1	(17.0-21.4)
75 +	12.4	(10.5-14.7)	15.3	(13.0-18.0)	8.5	(7.0-10.3)	25.8	(23.1-28.7)
Gender								
Male	5.9	(5.1-6.7)	5.9	(5.1-6.7)	3.8	(3.2-4.5)	11.1	(10.0-12.2)
Female	3.4	(2.9-4.0)	3.5	(2.9-4.1)	3.9	(3.3-4.6)	8.5	(7.6-9.4)
Race/Ethnicity								
White non-Hispanic	5.1	(4.6-5.8)	5.3	(4.7-5.9)	3.7	(3.3-4.3)	10.5	(9.7-11.4)
Black non-Hispanic	3.9	(2.7-5.5)	4.1	(2.9-5.8)	5.8	(4.3-7.8)	10.2	(8.2-12.6)
Other non-Hispanic	3.1	(1.9-5.1)	2.3	(1.3-4.0)	3.6	(2.1-6.3)	6.5	(4.5-9.3)
Hispanic	--[e]	--[e]	--[e]	--[e]	--[e]	--[e]	2.8	(1.6-5.0)
Education								
< High school	8.2	(5.8-11.3)	5.6	(3.7-8.4)	6.8	(4.6-9.9)	14.9	(11.5-19.0)
High school graduate	4.9	(4.1-5.9)	4.8	(4.0-5.8)	3.7	(3.0-4.6)	9.8	(8.6-11.1)
Some college	5.0	(4.2-6.0)	5.4	(4.5-6.5)	4.7	(3.9-5.8)	11.5	(10.2-13.0)
College graduate	2.7	(2.2-3.3)	3.3	(2.8-3.9)	2.1	(1.7-2.5)	6.1	(5.4-6.9)
Household Income								
< $20,000	8.8	(6.8-11.4)	6.9	(5.2-9.3)	7.8	(5.8-10.4)	17.3	(14.2-20.8)
$20,000 - $34,999	7.1	(5.6-9.0)	5.8	(4.6-7.4)	5.9	(4.6-7.6)	13.5	(11.4-15.8)
$35,000 - $49,999	4.9	(3.8-6.4)	5.9	(4.4-7.8)	2.9	(2.0-4.2)	11.0	(8.9-13.4)
$50,000 - $74,999	4.2	(3.0-5.9)	4.9	(3.7-6.7)	3.6	(2.4-5.4)	9.3	(7.4-11.7)
$75,000 +	2.2	(1.7-2.8)	2.8	(2.2-3.4)	1.8	(1.3-2.5)	5.3	(4.5-6.3)

Among all adults, the proportion who had ever been told by a doctor that…
[a] they had a heart attack or myocardial infarction (N = 9,919);
[b] they had angina or coronary heart disease (N = 9,869);
[c] they had a stroke. (N = 9,944)
[d] they had a heart attack, coronary heart disease or a stroke. (N = 9,854)
[e] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 29: Cancer
2023 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	**5.3**	**(4.8-5.8)**	**9.3**	**(8.6-10.0)**	**12.4**	**(11.7-13.2)**
Age						
18 - 34	--[d]	--[d]	--[d]	--[d]	0.8	(0.4-1.4)
35 - 44	0.7	(0.4-1.3)	2.9	(2.0-4.2)	3.5	(2.5-4.8)
45 - 54	2.5	(1.6-3.9)	5.6	(4.1-7.5)	7.3	(5.6-9.4)
55 - 64	6.8	(5.5-8.4)	12.1	(10.2-14.2)	16.2	(14.1-18.5)
65 - 74	10.8	(9.3-12.6)	18.4	(16.4-20.6)	25.8	(23.5-28.2)
75 +	18.5	(16.2-20.9)	29.6	(26.7-32.6)	38.4	(35.3-41.5)
Gender						
Male	4.6	(4.0-5.2)	8.0	(7.2-8.9)	10.6	(9.6-11.6)
Female	5.9	(5.3-6.7)	10.5	(9.6-11.6)	14.1	(13.0-15.3)
Race/Ethnicity						
White non-Hispanic	6.7	(6.1-7.3)	10.5	(9.8-11.4)	14.6	(13.7-15.5)
Black non-Hispanic	--[d]	--[d]	6.3	(4.7-8.4)	6.6	(5.0-8.8)
Other non-Hispanic	--[d]	--[d]	5.4	(3.6-8.2)	6.2	(4.2-9.0)
Hispanic	--[d]	--[d]	4.4	(2.7-6.9)	4.6	(2.9-7.2)
Education						
Less than high school	--[d]	--[d]	9.7	(6.8-13.6)	10.8	(7.8-14.8)
High school graduate	3.9	(3.2-4.7)	7.9	(6.7-9.1)	10.1	(8.9-11.5)
Some college	6.4	(5.4-7.5)	10.1	(8.9-11.4)	14.0	(12.6-15.5)
College graduate	6.2	(5.5-7.0)	9.8	(8.9-10.8)	13.5	(12.4-14.6)
Household Income						
< $20,000	2.8	(2.0-4.0)	9.3	(7.1-12.1)	10.7	(8.3-13.6)
$20,000 - $34,999	4.2	(3.3-5.4)	11.6	(9.6-13.8)	13.8	(11.8-16.1)
$35,000 - $49,999	6.7	(5.2-8.7)	10.7	(8.7-13.1)	14.1	(11.7-16.8)
$50,000 - $74,999	5.9	(4.7-7.4)	9.3	(7.7-11.2)	12.4	(10.6-14.5)
$75,000 +	4.9	(4.1-5.8)	7.3	(6.3-8.4)	10.5	(9.3-11.8)

[a] Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 9,918)
[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 = 9,929)
[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 = 9,922)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 30: Diabetes
2023 Michigan BRFS

	Ever Told Diabetes[a]	
	%	**95% Confidence Interval**
Total	**12.4**	**(11.6-13.3)**
Age		
18 – 24	--[b]	--[b]
25 – 34	4.5	(2.9-7.1)
35 – 44	6.5	(4.7-8.9)
45 – 54	11.8	(9.6-14.5)
55 – 64	18.4	(16.2-21.0)
65 – 74	23.0	(20.8-25.5)
75 +	22.1	(19.6-24.8)
Gender		
Male	13.5	(12.3-14.9)
Female	11.4	(10.3-12.5)
Race/Ethnicity		
White non-Hispanic	11.5	(10.7-12.5)
Black non-Hispanic	19.3	(16.2-22.9)
Other non-Hispanic	11.3	(8.0-15.8)
Hispanic	8.1	(5.5-11.7)
Education		
Less than high school	17.3	(13.1-22.6)
High school graduate	13.0	(11.5-14.7)
Some college	12.8	(11.4-14.3)
College graduate	9.7	(8.7-10.9)
Household Income		
< $20,000	19.0	(15.4-23.2)
$20,000 - $34,999	16.9	(14.4-19.8)
$35,000 - $49,999	11.9	(9.8-14.4)
$50,000 - $74,999	13.4	(11.3-15.9)
$75,000 +	8.0	(6.9-9.2)

[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 = 9,947)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 31: Kidney Disease
2023 Michigan BRFS

	Ever Told Kidney Disease[a]	
	%	**95% Confidence Interval**
Total	**4.2**	**(3.8-4.8)**
Age		
18 – 24	--[b]	--[b]
25 – 34	--[b]	--[b]
35 – 44	2.1	(1.2-3.7)
45 – 54	3.6	(2.5-5.3)
55 – 64	4.5	(3.3-6.0)
65 – 74	7.2	(6.0-8.6)
75 +	12.4	(10.4-14.8)
Gender		
Male	3.5	(3.0-4.2)
Female	4.9	(4.2-5.8)
Race/Ethnicity		
White non-Hispanic	4.2	(3.7-4.8)
Black non-Hispanic	5.7	(4.1-8.0)
Other non-Hispanic	3.6	(2.1-6.2)
Hispanic	--[b]	--[b]
Education		
Less than high school	5.2	(3.3-8.1)
High school graduate	4.8	(3.8-6.0)
Some college	4.6	(3.7-5.6)
College graduate	2.9	(2.4-3.5)
Household Income		
< $20,000	7.7	(5.2-11.3)
$20,000 - $34,999	6.4	(5.0-8.0)
$35,000 - $49,999	5.0	(3.7-6.9)
$50,000 - $74,999	4.1	(2.9-5.7)
$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 = 9,938)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 32: Depression
2023 Michigan BRFS

	Ever Told Depression[a]	
	%	95% Confidence Interval
Total	**24.1**	**(23.0-25.3)**
Age		
18 – 24	31.4	(26.7-36.4)
25 – 34	32.1	(28.5-36.0)
35 – 44	25.5	(22.5-28.8)
45 – 54	23.8	(21.0-26.9)
55 – 64	22.3	(20.0-24.8)
65 – 74	19.6	(17.5-21.8)
75 +	13.2	(11.1-15.5)
Gender		
Male	16.7	(15.3-18.2)
Female	31.2	(29.4-33.0)
Race/Ethnicity		
White non-Hispanic	25.5	(24.2-26.9)
Black non-Hispanic	19.9	(16.7-23.6)
Other non-Hispanic	21.1	(16.8-26.1)
Hispanic	23.6	(18.2-30.1)
Education		
Less than high school	29.2	(23.6-35.4)
High school graduate	23.8	(21.7-26.0)
Some college	27.1	(24.9-29.3)
College graduate	19.7	(18.3-21.3)
Household Income		
< $20,000	38.7	(33.8-43.8)
$20,000 - $34,999	30.3	(27.0-33.8)
$35,000 - $49,999	25.1	(21.7-28.9)
$50,000 - $74,999	21.4	(18.6-24.5)
$75,000 +	20.1	(18.2-22.2)

[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 = 9,915)