

**Prevalence Estimates for Risk Factors and Health Indicators
by Race-Ethnicity**

State of Michigan

Selected Tables

Michigan Behavioral Risk Factor Survey

2023

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

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Table of Contents

Introduction.....	2
Table 1: Fair or Poor General Health.....	3
Table 2: Poor Physical Health on at Least 14 Days in the Past Month.....	4
Table 3: Poor Mental Health on at Least 14 Days in the Past Month.....	5
Table 4: Activity Limitation on at Least 14 Days in the Past Month.....	6
Table 5: Disability.....	7
Table 6: Obesity.....	8
Table 7: No Health Care Coverage Among Those Aged 18-64 Years.....	9
Table 8: Medicaid Coverage Among All Adults.....	10
Table 9: No Personal Health Care Provider.....	11
Table 10: No Health Care Access During Past 12 Months Due to Cost.....	12
Table 11: No Leisure Time Physical Activity.....	13
Table 12: Current Smoking.....	14
Table 13: Current E-Cigarette Use.....	15
Table 14: Current Hookah Use.....	16
Table 15: Any Alcohol Consumption.....	17
Table 16: Heavy Drinking.....	18
Table 17: Binge Drinking.....	19
Table 18: Drove Motor Vehicle After Drinking.....	20
Table 19: Seatbelt Use.....	21
Table 20: Ever Told High Blood Pressure.....	22
Table 21: Cholesterol Ever Checked.....	23
Table 22: Ever Told High Cholesterol.....	24
Table 23: No Routine Checkup in Past Year.....	25
Table 24: Had Flu Vaccine in Past Year Among Those Aged 65 Years and Older.....	26
Table 25: Ever Had Pneumonia Vaccine Among Those Aged 65 Years and Older.....	27
Table 26: Ever Had an HIV Test.....	28
Table 27: Lifetime Asthma Prevalence - Adults.....	29
Table 28: Current Asthma Prevalence - Adults.....	30
Table 29: Ever Told Chronic Obstructive Pulmonary Disease (COPD).....	31
Table 30: Ever Told Arthritis.....	32
Table 31: Ever Told Heart Attack.....	33
Table 32: Ever Told Angina or Coronary Heart Disease.....	34
Table 33: Ever Told Stroke.....	35
Table 34: Ever Told Any Cardiovascular Disease.....	36
Table 35: Ever Told Skin Cancer.....	37
Table 36: Ever Told Any Other Type of Cancer.....	38
Table 37: Ever Told Cancer.....	39
Table 38: Ever Told Diabetes.....	40
Table 39: Ever Told Kidney Disease.....	41
Table 40: Ever Told Depression.....	42

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 BRFSS 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), which consisted of 8,000 White, non-Hispanics, 902 Black, non-Hispanics, 531 Other/Multiracial, non-Hispanics, and 317 Hispanics. Race/ethnicity was not available for 228 respondents, thus these individuals were excluded from this analysis. Due to relatively small racial-ethnic subgroup sample sizes we were required to combine demographic groups in this analysis. Some of the estimates for these racial-ethnic subgroups are relatively imprecise (i.e., have large confidence intervals) and should be used with caution. Furthermore, only comparisons between estimates with non-overlapping 95% confidence intervals should be considered significantly different.

For the 2023 Michigan BRFSS, the sample of land line telephone numbers that were utilized for data collection was selected using a list-assisted, random-digit-dialed methodology with a disproportionate stratification based on phone bank density, and whether or not the phone numbers were directory listed. The sample of cell phone numbers used within the 2023 Michigan BRFSS data collection process was randomly selected from dedicated cellular telephone banks sorted on the basis of area code and exchange within the State of Michigan.

Iterative proportional fitting or raking was the weighting methodology used to make the 2023 Michigan BRFSS data representative of the current Michigan adult population. Estimates based on this methodology were weighted to adjust for the probabilities of selection and a raking adjustment factor that adjusted for the distribution of Michigan adults by telephone source (land line vs. cell phone), detailed race/ethnicity, education level, marital status, age by gender, gender by race/ethnicity, age by race/ethnicity, and renter/owner status.

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

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

Due to the BRFSS methodology changes that took place in 2011, the estimates provided within the following tables should only be compared to Michigan BRFSS estimates from 2011-2022 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: Fair or Poor General Health^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	18.9	(17.9-20.0)	18.1	(16.9-19.3)	26.3	(22.7-30.3)	14.8	(11.4-19.0)	18.8	(13.9-24.9)
Age										
18 - 49	14.8	(13.2-16.6)	14.0	(12.2-15.9)	21.8	(16.4-28.4)	10.6	(6.9-15.9)	16.5	(11.1-23.9)
50 +	22.9	(21.5-24.3)	21.4	(20.0-23.0)	30.9	(26.2-36.0)	23.8	(17.3-31.7)	25.2	(16.3-36.7)
Gender										
Male	18.8	(17.3-20.4)	18.2	(16.6-20.0)	26.2	(20.7-32.6)	13.3	(9.2-18.9)	18.9	(12.3-28.0)
Female	19.0	(17.5-20.6)	17.9	(16.3-19.6)	26.4	(21.8-31.6)	16.5	(11.4-23.4)	18.7	(12.2-27.6)
Education										
High school graduate or less	25.0	(22.9-27.1)	24.6	(22.3-27.0)	33.5	(27.2-40.5)	17.5	(10.9-26.9)	18.4	(12.2-26.8)
Some college or more	15.2	(14.1-16.4)	14.4	(13.2-15.7)	20.1	(16.2-24.7)	13.6	(10.0-18.2)	18.9	(11.9-28.7)
Household Income										
< \$35,000	32.6	(29.9-35.5)	32.0	(28.8-35.3)	38.8	(31.9-46.1)	24.7	(16.2-35.8)	29.3	(19.1-42.2)
\$35,000 +	12.6	(11.4-13.8)	12.5	(11.3-13.9)	13.9	(10.1-18.8)	10.2	(6.7-15.4)	13.9	(8.4-22.2)

^a The proportion who reported that their health, in general, was either fair or poor.

^b Michigan estimates include all racial groups.

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

**Table 2: Poor Physical Health on at Least 14 Days in the Past Month^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	13.8	(12.9-14.8)	14.2	(13.1-15.3)	14.8	(12.1-18.1)	11.3	(8.3-15.3)	9.9	(6.6-14.8)
Age										
18 - 49	9.9	(8.5-11.5)	10.9	(9.2-12.8)	9.4	(6.1-14.2)	7.1	(4.1-12.2)	-- ^c	-- ^c
50 +	17.8	(16.5-19.1)	17.1	(15.7-18.5)	20.3	(16.2-25.1)	20.9	(14.7-28.9)	20.7	(12.3-32.6)
Gender										
Male	12.8	(11.5-14.2)	12.8	(11.3-14.3)	14.2	(10.0-19.7)	10.0	(6.1-16.1)	13.9	(8.4-22.2)
Female	14.8	(13.5-16.3)	15.6	(14.0-17.3)	15.4	(12.0-19.6)	12.7	(8.4-18.6)	-- ^c	-- ^c
Education										
High school graduate or less	16.9	(15.1-18.9)	17.8	(15.6-20.2)	17.4	(12.7-23.4)	15.2	(8.9-24.6)	9.3	(5.3-15.9)
Some college or more	12.0	(11.0-13.1)	12.2	(11.1-13.4)	12.8	(9.7-16.6)	9.1	(6.2-13.3)	10.7	(5.9-18.9)
Household Income										
< \$35,000	25.2	(22.6-27.9)	26.9	(23.8-30.3)	23.2	(17.6-29.9)	25.9	(16.6-38.1)	13.8	(7.8-23.3)
\$35,000 +	9.1	(8.1-10.3)	9.9	(8.7-11.2)	6.0	(3.8-9.5)	6.1	(3.6-10.1)	-- ^c	-- ^c

^a The proportion who reported 14 or more days of physical health that was not good, which includes physical illness and injury, during the past 30 days.

^b Michigan estimates include all racial groups.

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

**Table 3: Poor Mental Health on at Least 14 Days in the Past Month^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	17.1	(16.0-18.2)	16.3	(15.1-17.6)	19.9	(16.5-23.7)	17.5	(13.2-22.8)	20.6	(15.5-26.9)
Age										
18 - 49	22.2	(20.3-24.2)	22.2	(20.0-24.5)	24.0	(18.5-30.5)	20.0	(14.3-27.2)	22.6	(16.4-30.2)
50 +	12.1	(11.0-13.3)	11.4	(10.3-12.6)	15.6	(12.1-19.9)	13.0	(8.1-20.1)	-- ^c	-- ^c
Gender	17.1	(16.0-18.2)	16.3	(15.1-17.6)	19.9	(16.5-23.7)	17.5	(13.2-22.8)	20.6	(15.5-26.9)
Male	14.7	(13.2-16.3)	13.7	(12.2-15.4)	17.1	(12.3-23.3)	19.0	(12.9-27.0)	15.3	(9.2-24.6)
Female	19.4	(17.9-21.0)	18.8	(17.1-20.7)	22.2	(18.0-27.1)	15.9	(10.6-23.2)	24.5	(17.2-33.5)
Education	17.1	(16.0-18.2)	16.3	(15.1-17.5)	19.9	(16.6-23.7)	17.7	(13.4-23.0)	20.6	(15.5-26.9)
High school graduate or less	20.8	(18.7-23.0)	20.6	(18.3-23.1)	22.5	(17.0-29.3)	22.7	(14.3-34.1)	17.0	(10.7-26.1)
Some college or more	14.8	(13.7-16.1)	13.8	(12.6-15.2)	17.9	(14.1-22.3)	15.1	(10.6-21.1)	24.7	(17.3-34.1)
Household Income	17.3	(16.1-18.6)	16.5	(15.2-17.9)	19.0	(15.6-23.1)	18.4	(13.5-24.6)	22.2	(16.3-29.4)
< \$35,000	26.6	(24.0-29.4)	27.4	(24.2-30.7)	25.1	(19.3-31.8)	25.8	(16.7-37.6)	25.7	(16.6-37.6)
\$35,000 +	13.5	(12.2-15.0)	12.9	(11.5-14.4)	14.5	(10.5-19.6)	15.2	(9.8-22.9)	20.1	(13.0-29.8)

^a The proportion who reported 14 or more days of mental health that was not good, which includes stress, depression, and problems with emotions, during the past 30 days.

^b Michigan estimates include all racial groups.

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

**Table 4: Activity Limitation on at Least 14 Days in the Past Month^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	11.2	(10.4-12.2)	11.0	(10.1-12.0)	15.3	(12.4-18.8)	8.5	(5.8-12.2)	8.5	(5.4-13.2)
Age										
18 - 49	10.6	(9.2-12.1)	10.8	(9.3-12.6)	15.9	(11.5-21.7)	-- ^c	-- ^c	-- ^c	-- ^c
50 +	11.9	(10.8-13.1)	11.2	(10.1-12.3)	15.0	(11.3-19.5)	14.7	(9.3-22.5)	13.8	(7.6-23.6)
Gender										
Male	10.7	(9.5-12.1)	10.3	(9.0-11.8)	16.4	(11.7-22.4)	-- ^c	-- ^c	-- ^c	-- ^c
Female	11.7	(10.5-13.0)	11.7	(10.4-13.1)	14.4	(10.9-18.8)	9.8	(6.2-15.2)	-- ^c	-- ^c
Education										
High school graduate or less	14.3	(12.6-16.1)	14.3	(12.5-16.3)	17.2	(12.5-23.2)	12.9	(7.0-22.5)	9.5	(5.4-16.1)
Some college or more	9.3	(8.4-10.4)	9.1	(8.1-10.2)	13.9	(10.4-18.3)	6.3	(4.0-9.7)	-- ^c	-- ^c
Household Income										
< \$35,000	22.4	(20.0-25.0)	23.5	(20.7-26.5)	22.5	(16.8-29.3)	20.9	(13.2-31.5)	14.0	(7.9-23.7)
\$35,000 +	6.8	(5.9-7.9)	6.9	(6.0-8.1)	8.2	(5.2-12.6)	-- ^c	-- ^c	-- ^c	-- ^c

^a 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.

^b Michigan estimates include all racial groups

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

2023 Michigan BRFSS Estimates by Race-Ethnicity
September 2024

**Table 5: Disability^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	30.9	(29.6-32.2)	30.1	(28.7-31.5)	39.7	(35.3-44.3)	26.6	(21.7-32.2)	27.2	(21.3-34.0)
Age										
18 - 49	24.5	(22.5-26.6)	24.1	(21.8-26.5)	34.7	(28.0-42.2)	19.2	(13.6-26.4)	19.9	(13.7-28.0)
50 +	37.1	(35.5-38.8)	35.2	(33.5-36.9)	44.4	(39.0-50.0)	43.1	(34.4-52.2)	50.2	(38.1-62.3)
Gender										
Male	29.3	(27.4-31.2)	28.4	(26.5-30.4)	38.4	(31.6-45.8)	22.4	(16.4-29.8)	32.4	(22.8-43.7)
Female	32.5	(30.6-34.3)	31.8	(29.8-33.8)	40.8	(35.3-46.5)	31.5	(23.9-40.2)	23.1	(16.3-31.6)
Education										
High school graduate or less	39.9	(37.4-42.5)	38.8	(36.0-41.6)	50.9	(43.4-58.3)	39.3	(28.7-51.0)	29.1	(20.6-39.4)
Some college or more	25.4	(24.0-26.9)	25.3	(23.8-26.9)	30.6	(25.7-35.9)	19.9	(15.0-25.8)	24.5	(17.1-33.8)
Household Income										
< \$35,000	53.2	(50.2-56.3)	52.5	(48.9-56.1)	58.7	(51.5-65.5)	53.5	(41.4-65.1)	43.4	(31.6-55.9)
\$35,000 +	21.7	(20.3-23.3)	21.9	(20.3-23.5)	23.8	(18.6-29.9)	18.1	(12.5-25.5)	20.3	(12.9-30.6)

^a The proportion who reported having serious difficulty hearing, visual impairment, difficulty concentrating, remembering, or making decisions, difficulty walking or climbing stairs, difficulty dressing or bathing, or difficulty doing errands alone.

^b Michigan estimates include all racial groups.

**Table 6: Obesity^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	35.6	(34.2-37.0)	34.7	(33.2-36.2)	43.8	(39.3-48.4)	25.0	(20.3-30.5)	43.0	(35.5-50.7)
Age										
18 - 49	33.6	(31.4-35.9)	31.8	(29.4-34.3)	46.1	(38.8-53.5)	21.6	(15.9-28.7)	44.3	(35.4-53.5)
50 +	37.6	(36.0-39.3)	37.4	(35.6-39.2)	41.3	(35.9-46.9)	32.1	(24.2-41.3)	37.1	(25.9-49.9)
Gender										
Male	33.4	(31.5-35.3)	33.3	(31.3-35.4)	36.3	(29.7-43.4)	23.3	(17.6-30.3)	44.9	(33.9-56.4)
Female	37.8	(35.8-39.8)	36.1	(33.9-38.3)	50.8	(45.0-56.5)	27.2	(19.7-36.2)	41.4	(31.6-51.9)
Education										
High school graduate or less	36.1	(33.6-38.7)	34.8	(32.1-37.6)	41.0	(33.8-48.5)	28.2	(18.6-40.4)	45.9	(34.9-57.3)
Some college or more	35.2	(33.6-36.8)	34.6	(32.9-36.4)	45.9	(40.4-51.5)	23.4	(18.5-29.1)	39.5	(30.2-49.6)
Household Income										
< \$35,000	40.9	(37.9-44.0)	39.1	(35.7-42.7)	47.8	(40.4-55.3)	32.9	(22.6-45.2)	46.1	(32.9-59.8)
\$35,000 +	35.0	(33.3-36.8)	34.6	(32.7-36.5)	42.8	(36.6-49.3)	21.7	(15.9-28.8)	44.7	(34.6-55.4)

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.

^a The proportion of respondents whose BMI was greater than or equal to 30.0.

^b Michigan estimates include all racial groups.

**Table 7: No Health Care Coverage among Adults Aged 18 - 64 Years^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	5.8	(5.0-6.8)	5.4	(4.5-6.5)	4.0	(2.3-7.0)	-- ^c	-- ^c	14.9	(10.0-21.6)
Age										
18 - 49	7.0	(5.8-8.4)	6.6	(5.3-8.2)	5.2	(2.6-9.9)	-- ^c	-- ^c	16.5	(10.8-24.3)
50 - 64	3.5	(2.7-4.7)	3.4	(2.5-4.5)	2.2	(0.9-5.5)	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	7.5	(6.2-9.1)	7.2	(5.8-8.9)	-- ^c	-- ^c	-- ^c	-- ^c	17.1	(9.7-28.5)
Female	4.1	(3.2-5.3)	3.7	(2.7-5.0)	-- ^c	-- ^c	-- ^c	-- ^c	13.3	(7.6-22.4)
Education										
High school graduate or less	8.6	(6.9-10.7)	8.3	(6.4-10.8)	-- ^c	-- ^c	-- ^c	-- ^c	20.5	(12.6-31.7)
Some college or more	4.1	(3.3-5.1)	3.8	(3.0-4.9)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Household Income										
< \$35,000	9.5	(7.4-12.2)	8.4	(6.1-11.5)	-- ^c	-- ^c	-- ^c	-- ^c	29.0	(17.6-43.8)
\$35,000 +	4.7	(3.7-5.9)	4.6	(3.5-5.9)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c

^a Among those 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.

^b Michigan estimates include all racial groups.

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

**Table 8: Medicaid Coverage among All Adults^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	12.5	(11.5-13.6)	9.8	(8.8-10.9)	23.1	(19.4-27.3)	16.6	(12.4-21.8)	18.2	(12.7-25.2)
Age										
18 - 49	17.9	(16.1-19.9)	14.8	(13.0-16.9)	31.4	(25.1-38.5)	19.3	(13.7-26.6)	20.2	(13.6-28.9)
50 - 64	7.4	(6.5-8.5)	5.7	(4.8-6.8)	15.5	(11.8-20.0)	11.5	(7.1-18.2)	-- ^c	-- ^c
Gender										
Male	9.7	(8.4-11.2)	7.6	(6.4-9.1)	20.4	(15.0-27.1)	11.1	(6.2-19.3)	-- ^c	-- ^c
Female	15.1	(13.6-16.8)	11.9	(10.4-13.7)	25.4	(20.6-30.9)	22.4	(16.2-30.2)	22.0	(14.7-31.8)
Education										
High school graduate or less	20.7	(18.5-23.1)	16.5	(14.3-19.0)	35.7	(28.8-43.2)	27.1	(17.5-39.5)	23.4	(15.2-34.3)
Some college or more	7.7	(6.8-8.7)	6.2	(5.3-7.3)	13.4	(10.1-17.5)	11.5	(7.9-16.3)	-- ^c	-- ^c
Household Income										
< \$35,000	30.1	(27.3-33.2)	26.8	(23.5-30.3)	40.1	(32.9-47.7)	34.9	(24.6-46.9)	27.8	(17.3-41.4)
\$35,000 +	5.1	(4.2-6.2)	3.7	(2.9-4.8)	10.1	(6.6-15.2)	-- ^c	-- ^c	-- ^c	-- ^c

^a Among all adults, the proportion who reported having Medicaid health care coverage, which includes those who had Medicaid only as well as those who had both Medicaid and Medicare.

^b Michigan estimates include all racial groups.

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

**Table 9: No Personal Health Care Provider^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	12.1	(11.1-13.1)	10.8	(9.7-12.0)	11.8	(9.1-15.3)	17.0	(13.1-21.6)	23.2	(17.6-29.9)
Age										
18 - 49	20.3	(18.4-22.2)	19.1	(17.0-21.4)	19.5	(14.5-25.8)	22.6	(17.3-29.0)	28.0	(21.0-36.1)
50 +	4.2	(3.6-5.0)	4.0	(3.3-4.8)	4.6	(2.8-7.7)	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	15.6	(14.1-17.3)	14.4	(12.8-16.2)	13.2	(9.0-19.0)	21.4	(15.7-28.6)	30.8	(21.8-41.5)
Female	8.7	(7.5-10.1)	7.3	(6.0-8.9)	10.7	(7.4-15.1)	12.0	(7.7-18.3)	17.2	(10.9-26.0)
Education										
High school graduate or less	16.5	(14.6-18.7)	14.8	(12.7-17.3)	15.7	(11.1-21.9)	21.6	(13.8-32.1)	29.2	(20.7-39.4)
Some college or more	9.3	(8.3-10.4)	8.5	(7.5-9.7)	8.8	(5.9-12.9)	14.4	(10.5-19.3)	16.0	(10.0-24.7)
Household Income										
< \$35,000	15.3	(13.0-18.0)	12.8	(10.2-15.9)	15.2	(10.4-21.8)	23.6	(14.7-35.6)	29.8	(19.4-42.8)
\$35,000 +	11.1	(9.9-12.5)	10.3	(9.0-11.8)	10.0	(6.5-15.1)	16.6	(11.7-23.1)	19.1	(12.3-28.4)

^a The proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider.

^b Michigan estimates include all racial groups.

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

**Table 10: No Health Care Access during Past 12 Months Due to Cost^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	9.2	(8.4-10.1)	8.0	(7.2-9.0)	10.9	(8.4-13.9)	13.2	(9.3-18.3)	16.0	(11.8-21.2)
Age										
18 - 49	12.4	(10.9-14.0)	11.7	(10.1-13.5)	12.8	(8.9-18.0)	12.9	(8.1-20.0)	16.7	(11.8-23.0)
50 +	6.2	(5.4-7.1)	5.0	(4.3-5.9)	8.9	(6.2-12.6)	14.6	(9.2-22.2)	-- ^c	-- ^c
Gender										
Male	8.7	(7.5-10.0)	7.7	(6.5-9.0)	10.2	(6.7-15.1)	12.9	(8.2-19.7)	12.8	(7.7-20.7)
Female	9.7	(8.6-11.0)	8.4	(7.2-9.7)	11.4	(8.3-15.5)	13.4	(7.9-21.9)	18.4	(12.7-25.9)
Education										
High school graduate or less	10.9	(9.4-12.6)	9.2	(7.8-10.9)	9.7	(6.3-14.7)	22.4	(13.4-34.8)	17.7	(11.6-25.9)
Some college or more	8.2	(7.3-9.3)	7.4	(6.3-8.5)	11.8	(8.7-15.9)	8.6	(5.7-12.7)	13.6	(8.8-20.4)
Household Income										
< \$35,000	17.2	(14.9-19.7)	15.7	(13.1-18.6)	15.0	(10.5-21.0)	24.1	(14.9-36.6)	29.0	(19.4-40.9)
\$35,000 +	6.6	(5.7-7.7)	5.9	(5.0-7.0)	6.8	(4.2-10.8)	10.9	(6.1-18.9)	11.1	(6.7-17.8)

^a The proportion who reported that in the past 12 months, they could not see a doctor when they needed to due to the cost.

^b Michigan estimates include all racial groups.

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

**Table 11: No Leisure Time Physical Activity^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	25.0	(23.8-26.3)	24.2	(22.9-25.5)	30.8	(27.0-34.8)	21.7	(17.0-27.4)	27.6	(21.4-34.8)
Age										
18 - 49	19.4	(17.6-21.4)	17.4	(15.4-19.7)	26.3	(20.7-32.8)	18.5	(12.9-25.9)	25.8	(18.6-34.7)
50 +	30.4	(28.9-32.0)	29.6	(27.9-31.3)	35.4	(30.5-40.6)	28.2	(20.3-37.7)	36.1	(25.1-48.7)
Gender										
Male	22.4	(20.7-24.2)	21.4	(19.7-23.3)	28.8	(22.8-35.5)	19.8	(13.8-27.7)	25.4	(16.9-36.3)
Female	27.5	(25.8-29.3)	26.8	(24.9-28.8)	32.5	(27.8-37.5)	23.8	(16.9-32.4)	29.3	(20.9-39.4)
Education										
High school graduate or less	34.4	(32.0-36.9)	33.9	(31.3-36.6)	36.4	(30.0-43.4)	35.3	(24.6-47.7)	34.5	(25.0-45.5)
Some college or more	19.2	(18.0-20.5)	18.7	(17.3-20.1)	26.0	(21.7-30.8)	14.5	(10.8-19.2)	19.3	(12.7-28.4)
Household Income										
< \$35,000	38.3	(35.4-41.3)	38.3	(34.9-41.8)	38.8	(32.2-45.9)	32.8	(22.9-44.5)	42.8	(30.5-56.1)
\$35,000 +	18.2	(16.8-19.7)	17.4	(15.9-18.9)	23.4	(18.3-29.5)	18.2	(12.1-26.5)	20.4	(13.0-30.5)

^a The proportion who reported not participating in any leisure time physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise in the past month.

^b Michigan estimates include all racial groups.

**Table 12: Current Smoking^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	13.7	(12.7-14.7)	13.3	(12.2-14.5)	17.9	(14.6-21.7)	10.9	(7.8-15.1)	12.7	(8.9-17.8)
Age										
18 - 49	13.8	(12.2-15.5)	14.1	(12.2-16.2)	16.3	(11.7-22.3)	9.7	(6.0-15.2)	12.9	(8.5-19.2)
50 +	13.6	(12.4-14.9)	12.7	(11.5-14.1)	19.3	(15.0-24.5)	12.9	(7.8-20.7)	-- ^c	-- ^c
Gender										
Male	14.2	(12.7-15.7)	13.1	(11.7-14.7)	23.4	(17.8-30.2)	9.9	(5.8-16.3)	14.5	(8.4-23.8)
Female	13.2	(11.9-14.7)	13.5	(11.9-15.3)	13.1	(9.8-17.2)	12.1	(7.8-18.4)	11.3	(7.1-17.5)
Education										
High school graduate or less	19.8	(17.8-22.0)	20.2	(17.9-22.8)	23.0	(17.4-29.8)	14.8	(8.3-25.1)	14.1	(8.5-22.5)
Some college or more	10.0	(9.0-11.0)	9.5	(8.4-10.6)	13.8	(10.3-18.1)	9.0	(6.0-13.1)	10.6	(6.5-16.8)
Household Income										
< \$35,000	25.5	(22.8-28.3)	27.1	(23.8-30.7)	24.5	(18.7-31.4)	20.1	(12.1-31.6)	18.7	(10.9-30.1)
\$35,000 +	9.7	(8.7-10.9)	9.4	(8.3-10.7)	12.3	(8.4-17.6)	8.1	(4.6-13.8)	11.3	(6.7-18.4)

^a 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.

^b Michigan estimates include all racial groups.

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

2023 Michigan BRFSS Estimates by Race-Ethnicity
September 2024

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	8.5	(7.6-9.4)	8.1	(7.2-9.1)	9.5	(6.6-13.3)	10.0	(6.7-14.6)	9.5	(5.9-14.9)
Age										
18 - 49	14.5	(12.9-16.2)	15.1	(13.3-17.1)	15.3	(10.2-22.2)	12.0	(7.6-18.5)	11.4	(6.9-18.3)
50 +	2.8	(2.2-3.6)	2.4	(1.9-3.1)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	9.9	(8.5-11.4)	9.0	(7.7-10.5)	11.4	(6.9-18.2)	12.9	(7.8-20.6)	14.6	(7.8-25.5)
Female	7.2	(6.1-8.4)	7.2	(6.0-8.6)	7.8	(4.7-12.6)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	12.5	(10.7-14.5)	12.1	(10.2-14.2)	13.3	(8.4-20.5)	17.7	(10.1-29.1)	-- ^c	-- ^c
Some college or more	6.1	(5.3-7.0)	5.9	(5.0-7.0)	6.3	(3.7-10.7)	5.9	(3.5-9.7)	8.8	(5.1-15.0)
Household Income										
< \$35,000	11.9	(9.8-14.3)	10.8	(8.6-13.4)	14.7	(9.4-22.5)	15.6	(8.4-27.1)	-- ^c	-- ^c
\$35,000 +	7.9	(6.8-9.1)	7.8	(6.7-9.1)	-- ^c	-- ^c	9.3	(5.1-16.3)	-- ^c	-- ^c

^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.
^b Michigan estimates include all racial groups.
^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 14: Current Hookah Use^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	1.5	(0.9-2.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Age										
18 - 49	2.9	(1.7-5.1)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Female	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	1.3	(0.8-2.1)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Household Income										
< \$35,000	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	1.3	(0.7-2.3)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c

^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 days.

^b Michigan estimates include all racial groups.

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

**Table 15: Any Alcohol Consumption^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	52.5	(51.1-53.9)	53.9	(52.3-55.4)	52.2	(47.6-56.8)	41.2	(35.5-47.3)	51.0	(43.6-58.4)
Age										
18 - 49	57.7	(55.3-60.0)	59.7	(56.9-62.4)	61.1	(53.5-68.2)	42.0	(34.6-49.8)	56.9	(47.9-65.5)
50 +	47.7	(46.0-49.5)	49.2	(47.4-51.0)	44.0	(38.4-49.8)	40.7	(32.1-49.9)	33.0	(22.6-45.4)
Gender										
Male	57.4	(55.3-59.5)	59.1	(56.9-61.3)	54.8	(47.4-62.0)	44.9	(37.1-53.0)	60.4	(49.0-70.7)
Female	47.8	(45.8-49.8)	48.8	(46.6-51.0)	50.0	(44.2-55.7)	37.0	(28.7-46.1)	43.8	(34.4-53.7)
Education										
High school graduate or less	42.3	(39.7-44.9)	42.4	(39.5-45.3)	46.0	(38.4-53.8)	30.8	(21.1-42.4)	45.0	(34.4-56.2)
Some college or more	58.7	(57.0-60.3)	60.2	(58.4-62.0)	57.1	(51.5-62.5)	46.8	(40.1-53.6)	58.3	(48.5-67.4)
Household Income										
< \$35,000	37.6	(34.7-40.7)	34.1	(30.9-37.6)	49.6	(41.9-57.3)	37.1	(26.5-49.1)	37.8	(26.5-50.7)
\$35,000 +	60.5	(58.6-62.3)	62.5	(60.5-64.4)	58.4	(51.8-64.8)	42.9	(35.0-51.1)	60.5	(50.1-69.9)

^a The proportion who reported consuming at least one drink of any alcoholic beverage in the previous month.

^b Michigan estimates include all racial groups.

**Table 16: Heavy Drinking^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	5.9	(5.2-6.6)	6.3	(5.5-7.1)	4.8	(3.2-7.1)	4.1	(2.4-6.8)	-- ^c	-- ^c
Age										
18 - 49	7.2	(6.0-8.6)	7.9	(6.5-9.6)	6.5	(3.8-11.0)	-- ^c	-- ^c	-- ^c	-- ^c
50 +	4.7	(4.1-5.4)	5.0	(4.3-5.8)	3.2	(1.8-5.6)	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	5.6	(4.7-6.8)	5.9	(4.9-7.2)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Female	6.1	(5.2-7.1)	6.6	(5.6-7.8)	4.6	(2.8-7.4)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	5.8	(4.7-7.3)	6.3	(4.9-8.0)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	5.9	(5.1-6.7)	6.2	(5.4-7.2)	5.6	(3.5-8.7)	3.1	(1.7-5.5)	-- ^c	-- ^c
Household Income										
< \$35,000	4.4	(3.4-5.7)	4.1	(3.0-5.7)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	6.8	(5.9-7.9)	7.2	(6.2-8.4)	5.5	(3.2-9.4)	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion who reported consuming on average more than two alcoholic beverages per day for men or more than one per day for women in the previous month.
^b Michigan estimates include all racial groups.
^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 17: Binge Drinking^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	15.2	(14.2-16.3)	15.9	(14.8-17.1)	11.8	(9.1-15.3)	11.2	(7.7-15.9)	20.1	(14.4-27.3)
Age										
18 - 49	21.9	(20.0-23.8)	23.7	(21.6-26.0)	18.2	(13.2-24.7)	12.4	(8.0-18.7)	24.3	(17.1-33.2)
50 +	8.9	(8.0-10.0)	9.5	(8.5-10.7)	5.7	(3.7-8.8)	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	19.5	(17.8-21.2)	20.6	(18.8-22.5)	14.2	(9.7-20.3)	12.8	(8.1-19.7)	26.8	(17.5-38.8)
Female	11.2	(10.0-12.6)	11.4	(10.1-12.9)	9.7	(6.8-13.8)	-- ^c	-- ^c	14.8	(8.8-23.8)
Education										
High school graduate or less	14.5	(12.6-16.5)	14.7	(12.7-16.9)	11.0	(7.0-16.8)	-- ^c	-- ^c	18.1	(10.7-28.9)
Some college or more	15.7	(14.5-17.0)	16.6	(15.2-18.0)	12.6	(9.1-17.1)	8.9	(6.0-13.0)	22.5	(14.8-32.6)
Household Income										
< \$35,000	11.9	(10.0-14.0)	11.0	(9.0-13.3)	13.1	(8.7-19.3)	-- ^c	-- ^c	14.7	(8.3-24.8)
\$35,000 +	18.0	(16.6-19.6)	18.8	(17.2-20.4)	12.6	(8.6-17.9)	11.5	(6.9-18.4)	27.7	(18.8-38.9)

^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.

^b Michigan estimates include all racial groups.

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

**Table 18: Drove Motor Vehicle After Drinking^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	1.4	(1.1-1.7)	1.4	(1.1-1.8)	--b	--b	--b	--b	--b	--b
Age										
18 - 49	1.8	(1.3-2.5)	1.9	(1.3-2.7)	--b	--b	--b	--b	--b	--b
50 +	1.0	(0.7-1.4)	1.0	(0.7-1.5)	--b	--b	--b	--b	--b	--b
Gender										
Male	2.0	(1.5-2.7)	2.1	(1.6-2.9)	--b	--b	--b	--b	--b	--b
Female	0.8	(0.5-1.1)	0.7	(0.5-1.1)	--b	--b	--b	--b	--b	--b
Education										
High school graduate or less	1.4	(0.9-2.1)	1.3	(0.8-2.2)	--b	--b	--b	--b	--b	--b
Some college or more	1.4	(1.0-1.8)	1.5	(1.1-2.0)	--b	--b	--b	--b	--b	--b
Household Income										
< \$35,000	--b	--b	--b	--b	--b	--b	--b	--b	--b	--b
\$35,000 +	2.0	(1.5-2.5)	2.0	(1.5-2.6)	--b	--b	--b	--b	--b	--b

^a Among adults who reporting drinking any alcohol within the past 30 days, the proportion who reported driving after having too much to drink at least once in the previous month.

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

**Table 19: Seatbelt Use^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	89.0	(88.0-90.0)	89.9	(88.8-90.9)	86.7	(82.9-89.7)	86.4	(81.4-90.3)	86.0	(78.9-91.0)
Age										
18 - 49	84.9	(82.9-86.6)	85.6	(83.4-87.6)	80.8	(73.8-86.3)	84.8	(78.0-89.7)	84.5	(75.6-90.6)
50 +	93.0	(92.0-93.8)	93.5	(92.5-94.3)	91.7	(88.1-94.3)	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	86.4	(84.8-87.8)	86.9	(85.2-88.5)	85.5	(79.4-90.0)	84.2	(76.9-89.5)	83.2	(71.9-90.6)
Female	91.6	(90.1-92.8)	92.8	(91.2-94.1)	87.7	(82.6-91.4)	88.9	(81.1-93.7)	-- ^c	-- ^c
Education										
High school graduate or less	85.2	(83.0-87.2)	85.7	(83.2-87.9)	83.2	(76.2-88.4)	83.5	(72.7-90.6)	86.5	(76.5-92.6)
Some college or more	91.3	(90.2-92.3)	92.3	(91.2-93.2)	89.4	(85.2-92.5)	87.8	(82.0-91.9)	-- ^c	-- ^c
Household Income										
< \$35,000	85.9	(83.2-88.3)	87.2	(84.0-89.8)	82.0	(74.4-87.7)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	90.3	(89.0-91.5)	90.7	(89.4-91.9)	90.9	(86.0-94.2)	87.2	(80.1-92.1)	-- ^c	-- ^c

^a The proportion who reported always using a seatbelt when driving or riding in a car.

^b Michigan estimates include all racial groups.

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

**Table 20: Ever Told High Blood Pressure^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	37.1	(35.8-38.4)	37.2	(35.8-38.6)	50.2	(45.9-54.5)	24.8	(20.5-29.8)	22.4	(17.2-28.6)
Age										
18 - 49	18.0	(16.3-19.8)	18.0	(16.1-20.1)	25.9	(20.2-32.6)	10.3	(6.7-15.6)	16.2	(10.9-23.3)
50 +	55.8	(54.2-57.4)	53.3	(51.5-55.0)	72.6	(67.6-77.0)	55.2	(46.3-63.8)	46.9	(35.1-59.1)
Gender										
Male	40.5	(38.6-42.5)	41.1	(39.0-43.2)	52.2	(45.2-59.2)	26.2	(20.2-33.1)	27.3	(19.3-37.1)
Female	33.8	(32.1-35.6)	33.4	(31.5-35.3)	48.5	(43.2-53.9)	23.4	(17.4-30.7)	18.6	(12.3-27.0)
Education										
High school graduate or less	40.4	(38.0-42.9)	40.3	(37.7-43.1)	54.5	(47.3-61.5)	31.5	(22.2-42.5)	21.7	(14.7-30.8)
Some college or more	35.1	(33.6-36.5)	35.4	(33.8-37.0)	46.5	(41.4-51.7)	21.4	(17.2-26.3)	23.0	(16.0-31.8)
Household Income										
< \$35,000	44.9	(42.0-47.9)	44.0	(40.6-47.5)	56.1	(48.8-63.2)	40.0	(29.3-51.7)	26.5	(17.3-38.4)
\$35,000 +	33.9	(32.2-35.5)	34.4	(32.6-36.2)	43.8	(37.7-50.1)	22.3	(16.6-29.1)	20.8	(14.0-29.7)

^a 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.

^b Michigan estimates include all racial groups.

**Table 21: Cholesterol Ever Checked^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	92.1	(91.2-92.9)	92.6	(91.6-93.5)	93.2	(90.4-95.2)	89.0	(84.1-92.5)	86.5	(80.3-90.9)
Age										
18 - 49	84.9	(83.0-86.5)	84.5	(82.3-86.5)	88.6	(83.2-92.4)	83.0	(75.7-88.4)	84.0	(76.4-89.5)
50 +	98.5	(98.0-98.9)	98.7	(98.2-99.1)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	90.1	(88.6-91.4)	90.5	(88.8-92.0)	92.5	(87.4-95.6)	86.5	(79.8-91.3)	83.4	(73.4-90.1)
Female	94.0	(92.8-95.0)	94.6	(93.4-95.7)	93.9	(90.4-96.1)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	88.8	(86.9-90.4)	88.8	(86.6-90.7)	91.4	(86.3-94.7)	-- ^c	-- ^c	83.9	(73.8-90.6)
Some college or more	94.1	(93.0-94.9)	94.7	(93.6-95.6)	94.7	(91.2-96.9)	89.6	(83.5-93.7)	89.4	(81.4-94.1)
Household Income										
< \$35,000	91.2	(89.2-92.8)	91.7	(89.4-93.6)	93.3	(88.5-96.2)	83.9	(73.7-90.6)	-- ^c	-- ^c
\$35,000 +	92.4	(91.1-93.5)	93.1	(91.8-94.2)	93.6	(88.9-96.4)	88.8	(80.7-93.8)	82.8	(72.5-89.8)

^a The proportion who reported ever having had their blood cholesterol checked.

^b Michigan estimates include all racial groups.

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

**Table 22: Ever Told High Cholesterol^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	35.6	(34.2-36.9)	37.1	(35.6-38.6)	35.0	(30.8-39.5)	29.4	(24.2-35.2)	23.3	(17.3-30.6)
Age										
18 - 49	19.1	(17.2-21.2)	18.6	(16.6-20.8)	22.5	(16.5-30.0)	20.2	(14.2-28.0)	16.6	(10.4-25.5)
50 +	48.5	(46.8-50.2)	49.3	(47.5-51.1)	45.9	(40.5-51.5)	43.1	(34.5-52.1)	48.0	(35.1-61.1)
Gender										
Male	36.1	(34.1-38.1)	37.3	(35.2-39.4)	36.3	(29.5-43.7)	31.1	(23.7-39.6)	23.5	(15.3-34.3)
Female	35.1	(33.3-37.0)	36.9	(34.9-39.0)	33.9	(28.9-39.4)	27.7	(20.8-35.7)	23.1	(15.2-33.6)
Education										
High school graduate or less	35.8	(33.3-38.4)	36.5	(33.7-39.3)	37.8	(30.7-45.4)	34.5	(23.4-47.6)	26.4	(16.8-38.9)
Some college or more	35.5	(33.9-37.0)	37.5	(35.8-39.2)	32.7	(27.8-38.0)	27.1	(21.7-33.2)	19.7	(13.6-27.6)
Household Income										
< \$35,000	37.9	(34.9-41.1)	40.4	(36.8-44.0)	36.2	(29.2-43.9)	29.9	(18.5-44.5)	28.9	(17.1-44.4)
\$35,000 +	34.0	(32.3-35.7)	35.4	(33.6-37.2)	32.1	(26.3-38.5)	28.8	(22.3-36.3)	21.2	(14.1-30.5)

^a The proportion who reported that a doctor, nurse, or other health professional had told them that their cholesterol was high among those who ever had their blood cholesterol checked.

^b Michigan estimates include all racial groups.

**Table 23: No Routine Checkup in Past Year^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	18.6	(17.4-19.7)	18.4	(17.1-19.7)	13.3	(10.5-16.7)	24.3	(19.8-29.5)	25.8	(20.0-32.6)
Age										
18 - 49	27.6	(25.6-29.7)	28.5	(26.1-31.0)	18.7	(13.8-24.8)	30.1	(23.9-37.1)	30.9	(23.6-39.3)
50 +	9.9	(8.9-10.9)	10.0	(9.0-11.1)	8.4	(5.9-11.7)	12.8	(8.0-20.1)	-- ^c	-- ^c
Gender										
Male	23.1	(21.3-24.9)	23.0	(21.1-25.0)	17.1	(12.3-23.3)	27.2	(20.7-34.8)	32.6	(23.0-43.9)
Female	14.3	(12.9-15.7)	13.9	(12.4-15.6)	10.0	(7.4-13.5)	21.1	(15.2-28.4)	20.6	(14.1-29.0)
Education										
High school graduate or less	21.5	(19.3-23.7)	21.7	(19.3-24.3)	13.1	(8.9-18.9)	28.0	(19.0-39.2)	29.8	(21.0-40.5)
Some college or more	16.7	(15.5-18.0)	16.4	(15.1-17.8)	13.5	(10.2-17.8)	22.2	(17.5-27.8)	21.1	(14.6-29.5)
Household Income										
< \$35,000	18.1	(15.8-20.6)	18.8	(16.1-21.8)	9.3	(6.0-14.0)	32.6	(21.9-45.5)	21.4	(13.2-32.8)
\$35,000 +	19.5	(18.0-21.1)	18.9	(17.2-20.6)	17.8	(13.1-23.7)	21.1	(15.7-27.7)	30.7	(22.0-41.1)

^a The proportion who reported that they did not have a routine checkup in the past year.

^b Michigan estimates include all racial groups.

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

**Table 24: Had Flu Vaccine in Past Year among Adults 65 Years and Older^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	64.4	(62.3-66.5)	67.0	(64.8-69.1)	51.1	(43.6-58.5)	47.2	(34.8-60.0)	62.9	(41.0-80.5)
Gender										
Male	65.3	(62.1-68.5)	67.0	(63.7-70.1)	55.6	(42.2-68.2)	57.9	(39.8-74.1)	-- ^c	-- ^c
Female	63.6	(60.8-66.4)	67.0	(64.1-69.9)	47.5	(39.2-56.0)	39.7	(23.7-58.3)	-- ^c	-- ^c
Education										
High school graduate or less	59.0	(55.0-62.8)	60.7	(56.5-64.6)	51.0	(37.7-64.2)	48.6	(26.7-71.0)	-- ^c	-- ^c
Some college or more	67.7	(65.2-70.0)	70.7	(68.1-73.1)	51.0	(42.4-59.5)	47.5	(34.1-61.3)	-- ^c	-- ^c
Household Income										
< \$35,000	53.2	(48.7-57.6)	57.4	(52.7-62.1)	39.8	(29.0-51.7)	35.9	(18.2-58.5)	-- ^c	-- ^c
\$35,000 +	69.5	(66.8-72.1)	71.1	(68.3-73.7)	60.8	(50.5-70.2)	56.0	(38.3-72.3)	-- ^c	-- ^c

^a The proportion of those aged 65 years and older 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.

^b Michigan estimates include all racial groups.

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

**Table 25: Ever Had Pneumonia Vaccine among Adults 65 Years and Older^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	72.2	(70.2-74.2)	74.3	(72.2-76.4)	58.2	(50.7-65.3)	72.1	(60.3-81.5)	54.5	(32.9-74.5)
Gender										
Male	69.1	(65.8-72.2)	71.1	(67.8-74.3)	55.1	(42.1-67.4)	68.4	(51.1-81.8)	-- ^c	-- ^c
Female	74.8	(72.1-77.3)	77.0	(74.2-79.5)	60.5	(51.9-68.5)	74.9	(57.9-86.6)	-- ^c	-- ^c
Education										
High school graduate or less	67.8	(64.0-71.4)	69.2	(65.2-73.0)	54.7	(41.6-67.1)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	74.9	(72.5-77.1)	77.2	(74.8-79.5)	60.3	(51.4-68.7)	67.2	(53.0-78.8)	-- ^c	-- ^c
Household Income										
< \$35,000	64.2	(59.7-68.5)	68.2	(63.5-72.6)	47.5	(35.7-59.6)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	75.6	(72.9-78.1)	75.8	(72.9-78.4)	73.2	(63.5-81.2)	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion of those aged 65 years and older who reported that they ever had a pneumococcal vaccine.

^b Michigan estimates include all racial groups.

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

**Table 26: Ever Had an HIV Test among Adults 18 – 64 Years of Age^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	43.0	(41.3-44.9)	39.5	(37.6-41.5)	64.9	(59.4-70.0)	37.3	(31.0-44.1)	45.3	(37.7-53.1)
Age										
18 - 49	44.1	(41.8-46.5)	41.0	(38.4-43.8)	70.4	(63.0-76.9)	33.9	(26.8-41.8)	43.8	(35.3-52.8)
50 - 64	41.3	(38.6-44.0)	37.3	(34.5-40.2)	56.1	(47.7-64.1)	50.1	(37.1-63.1)	50.8	(35.7-65.8)
Gender										
Male	39.9	(37.4-42.5)	37.3	(34.6-40.1)	63.8	(55.0-71.8)	30.4	(23.3-38.5)	37.6	(26.8-49.8)
Female	46.2	(43.7-48.8)	41.8	(39.0-44.7)	65.9	(58.9-72.2)	45.7	(35.5-56.3)	51.3	(41.1-61.5)
Education										
High school graduate or less	40.6	(37.4-43.9)	36.5	(33.0-40.3)	60.9	(51.6-69.5)	33.5	(21.7-47.9)	42.0	(31.3-53.5)
Some college or more	44.5	(42.4-46.6)	41.2	(38.9-43.5)	67.9	(61.2-73.9)	39.3	(32.3-46.7)	49.5	(39.4-59.6)
Household Income										
< \$35,000	47.6	(43.7-51.6)	44.1	(39.4-48.9)	65.1	(55.6-73.5)	37.5	(25.6-51.1)	44.6	(31.7-58.3)
\$35,000 +	41.6	(39.4-43.9)	37.9	(35.6-40.3)	64.3	(56.5-71.4)	40.3	(31.6-49.5)	47.1	(36.5-57.9)

^a The proportion of those aged 18-64 years who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation.

^b Michigan estimates include all racial groups.

**Table 27: Lifetime Asthma Prevalence - Adult^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	17.0	(15.9-18.1)	17.2	(16.1-18.5)	17.8	(14.8-21.1)	14.3	(10.8-18.5)	15.6	(11.3-21.1)
Age										
18 - 49	19.7	(18.0-21.6)	21.5	(19.3-23.8)	17.8	(13.3-23.3)	14.2	(9.9-20.0)	15.9	(10.9-22.6)
50 +	14.3	(13.2-15.4)	13.6	(12.4-14.8)	17.8	(14.1-22.0)	15.2	(10.3-21.8)	-- ^c	-- ^c
Gender										
Male	14.0	(12.7-15.5)	14.8	(13.2-16.5)	11.7	(8.0-16.9)	11.0	(7.2-16.6)	13.6	(8.5-21.2)
Female	19.8	(18.3-21.4)	19.6	(17.9-21.4)	22.9	(18.8-27.6)	17.8	(12.5-24.8)	17.2	(11.1-25.5)
Education										
High school graduate or less	16.5	(14.7-18.5)	16.2	(14.1-18.6)	19.0	(14.3-24.9)	18.8	(11.5-29.0)	11.5	(6.9-18.5)
Some college or more	17.3	(16.1-18.6)	17.9	(16.5-19.3)	16.8	(13.3-20.9)	12.1	(8.9-16.2)	20.2	(13.4-29.4)
Household Income										
< \$35,000	21.0	(18.6-23.7)	21.1	(18.1-24.3)	22.5	(17.0-29.0)	18.7	(11.6-28.8)	19.1	(10.6-31.8)
\$35,000 +	16.0	(14.8-17.4)	16.5	(15.1-18.1)	14.1	(10.6-18.6)	14.3	(9.7-20.7)	15.3	(10.2-22.3)

^a The proportion who reported that they were told by a doctor, nurse, or other health care professional that they had asthma.

^b Michigan estimates include all racial groups.

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

**Table 28: Current Asthma Prevalence - Adult^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	11.0	(10.2-11.8)	10.8	(9.9-11.7)	13.3	(10.8-16.4)	9.4	(6.9-12.7)	10.2	(6.7-15.4)
Age										
18 - 49	11.3	(10.0-12.7)	11.5	(9.9-13.2)	12.9	(9.0-18.0)	9.0	(6.0-13.2)	10.3	(6.2-16.7)
50 +	10.7	(9.7-11.7)	10.2	(9.2-11.3)	13.7	(10.5-17.6)	11.0	(6.9-17.0)	-- ^c	-- ^c
Gender										
Male	7.5	(6.5-8.6)	7.8	(6.7-9.0)	7.7	(4.8-12.1)	5.4	(3.1-9.1)	-- ^c	-- ^c
Female	14.3	(13.0-15.6)	13.7	(12.3-15.2)	18.1	(14.4-22.5)	13.9	(9.6-19.8)	13.1	(7.7-21.5)
Education										
High school graduate or less	10.7	(9.3-12.3)	10.2	(8.6-12.0)	15.8	(11.5-21.4)	9.2	(5.1-16.2)	-- ^c	-- ^c
Some college or more	11.1	(10.2-12.2)	11.2	(10.1-12.3)	11.3	(8.6-14.8)	9.7	(6.8-13.6)	13.4	(7.5-22.6)
Household Income										
< \$35,000	15.2	(13.2-17.4)	14.2	(12.0-16.8)	18.1	(13.2-24.3)	13.1	(8.1-20.5)	17.7	(9.5-30.6)
\$35,000 +	9.8	(8.8-10.9)	10.1	(9.0-11.3)	9.9	(7.0-13.8)	8.7	(5.5-13.4)	7.2	(3.9-12.9)

^a The proportion who reported that they still had asthma.

^b Michigan estimates include all racial groups.

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

**Table 29: Ever Told Chronic Obstructive Pulmonary Disease (COPD)^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	8.6	(7.9-9.4)	9.2	(8.4-10.1)	9.1	(7.0-11.7)	5.4	(3.6-8.1)	4.2	(2.5-6.8)
Age										
18 - 49	3.8	(3.1-4.7)	3.9	(3.0-5.0)	6.4	(3.8-10.6)	-- ^c	-- ^c	-- ^c	-- ^c
50 +	13.3	(12.2-14.5)	13.6	(12.4-14.9)	11.7	(8.8-15.5)	13.7	(8.7-20.9)	-- ^c	-- ^c
Gender										
Male	8.1	(7.1-9.1)	8.8	(7.7-10.1)	7.5	(4.8-11.6)	5.1	(2.9-8.8)	-- ^c	-- ^c
Female	9.1	(8.1-10.2)	9.5	(8.4-10.8)	10.4	(7.7-14.1)	5.9	(3.2-10.4)	-- ^c	-- ^c
Education										
High school graduate or less	12.0	(10.6-13.6)	13.3	(11.7-15.2)	12.2	(8.6-17.0)	9.7	(5.4-16.9)	-- ^c	-- ^c
Some college or more	6.5	(5.8-7.3)	6.9	(6.0-7.8)	6.7	(4.6-9.6)	3.2	(1.9-5.3)	-- ^c	-- ^c
Household Income										
< \$35,000	15.8	(13.9-17.9)	17.4	(15.0-20.0)	16.0	(11.5-21.8)	12.0	(7.0-19.8)	-- ^c	-- ^c
\$35,000 +	5.9	(5.1-6.7)	6.4	(5.5-7.4)	4.4	(2.6-7.2)	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion who reported ever being told by a doctor that they had chronic obstructive pulmonary disease (COPD), emphysema or chronic bronchitis.

^b Michigan estimates include all racial groups.

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

**Table 30: Ever Told Arthritis^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	29.6	(28.5-30.8)	32.1	(30.7-33.4)	27.2	(23.8-30.8)	19.6	(15.8-24.1)	17.1	(13.0-22.3)
Age										
18 - 49	11.4	(10.1-12.8)	12.0	(10.4-13.8)	11.2	(7.8-15.7)	10.3	(6.7-15.4)	8.5	(5.3-13.2)
50 +	47.6	(46.0-49.3)	49.0	(47.2-50.8)	42.2	(37.2-47.5)	39.5	(31.4-48.1)	50.7	(38.6-62.7)
Gender										
Male	25.2	(23.6-26.9)	27.5	(25.7-29.4)	21.4	(16.5-27.3)	17.2	(12.5-23.3)	13.9	(8.7-21.6)
Female	33.8	(32.2-35.5)	36.4	(34.5-38.4)	32.1	(27.7-36.9)	22.4	(16.6-29.4)	19.7	(13.9-27.1)
Education										
High school graduate or less	30.4	(28.3-32.6)	33.0	(30.6-35.6)	30.0	(24.4-36.3)	23.2	(15.7-33.0)	14.3	(9.0-21.8)
Some college or more	29.2	(27.9-30.6)	31.6	(30.0-33.2)	25.0	(21.0-29.4)	18.0	(14.0-22.9)	20.3	(14.4-27.8)
Household Income										
< \$35,000	38.5	(35.8-41.4)	43.3	(39.9-46.7)	32.9	(26.8-39.7)	30.7	(21.7-41.3)	20.6	(13.2-30.6)
\$35,000 +	25.5	(24.1-27.0)	27.3	(25.8-29.0)	22.1	(17.7-27.2)	17.4	(12.5-23.7)	16.5	(10.8-24.3)

^a The proportion who had ever being told by a health care professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia.

^b Michigan estimates include all racial groups.

**Table 31: Ever Told Heart Attack^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	4.6	(4.1-5.1)	5.1	(4.6-5.8)	3.9	(2.7-5.5)	3.1	(1.9-5.1)	-- ^c	-- ^c
Age										
18 - 49	0.7	(0.4-1.2)	0.9	(0.5-1.6)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	8.5	(7.7-9.5)	8.8	(7.8-9.8)	7.1	(5.0-10.0)	9.5	(5.6-15.6)	-- ^c	-- ^c
Gender										
Male	5.9	(5.2-6.8)	6.5	(5.6-7.5)	4.9	(2.9-8.0)	4.6	(2.5-8.3)	-- ^c	-- ^c
Female	3.4	(2.8-4.0)	3.8	(3.1-4.6)	3.0	(1.9-4.8)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	5.7	(4.8-6.7)	6.4	(5.3-7.6)	5.0	(3.1-8.0)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	4.0	(3.5-4.6)	4.5	(3.8-5.2)	3.0	(1.8-4.9)	2.6	(1.6-4.3)	-- ^c	-- ^c
Household Income										
< \$35,000	7.7	(6.4-9.2)	9.1	(7.5-11.0)	5.4	(3.2-8.9)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	3.2	(2.7-3.8)	3.7	(3.1-4.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion who had ever been told by a doctor that they had a heart attack or myocardial infarction.

^b Michigan estimates include all racial groups.

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

**Table 32: Ever Told Angina or Coronary Heart Disease^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	4.7	(4.2-5.2)	5.3	(4.7-5.9)	4.1	(2.9-5.8)	2.3	(1.3-4.0)	-- ^c	-- ^c
Age										
18 - 49	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	8.7	(7.8-9.6)	9.3	(8.3-10.4)	7.5	(5.3-10.6)	4.1	(2.3-7.3)	-- ^c	-- ^c
Gender										
Male	5.9	(5.2-6.8)	6.6	(5.8-7.6)	4.8	(2.8-8.0)	-- ^c	-- ^c	-- ^c	-- ^c
Female	3.5	(2.9-4.2)	4.0	(3.3-4.9)	3.6	(2.3-5.5)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	5.1	(4.3-6.1)	5.7	(4.7-6.9)	5.8	(3.6-9.2)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	4.4	(3.9-5.1)	5.1	(4.4-5.9)	2.8	(1.7-4.5)	2.2	(1.3-3.9)	-- ^c	-- ^c
Household Income										
< \$35,000	6.3	(5.2-7.6)	6.9	(5.6-8.4)	6.6	(4.1-10.4)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	3.9	(3.4-4.6)	4.6	(3.9-5.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion who had ever been told by a doctor that they had angina or coronary heart disease.

^b Michigan estimates include all racial groups.

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

**Table 33: Ever Told Stroke^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	3.8	(3.4-4.3)	3.7	(3.3-4.3)	5.8	(4.3-7.8)	3.6	(2.1-6.3)	-- ^c	-- ^c
Age										
18 - 49	1.2	(0.8-1.7)	1.3	(0.8-2.0)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	6.4	(5.7-7.3)	5.8	(5.0-6.6)	10.0	(7.3-13.6)	9.4	(5.2-16.3)	-- ^c	-- ^c
Gender										
Male	3.8	(3.1-4.5)	3.5	(2.9-4.3)	6.3	(3.9-10.0)	-- ^c	-- ^c	-- ^c	-- ^c
Female	3.9	(3.3-4.6)	3.9	(3.3-4.7)	5.3	(3.6-7.7)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	4.4	(3.6-5.3)	4.1	(3.3-5.1)	5.6	(3.4-9.0)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	3.5	(3.0-4.1)	3.5	(2.9-4.2)	5.9	(4.0-8.7)	-- ^c	-- ^c	-- ^c	-- ^c
Household Income										
< \$35,000	6.6	(5.4-8.0)	6.0	(4.7-7.5)	9.6	(6.6-13.7)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	2.5	(2.0-3.1)	2.6	(2.1-3.3)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion who had ever been told by a doctor that they had a stroke.

^b Michigan estimates include all racial groups.

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

**Table 34: Ever Told Any Cardiovascular Disease^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	9.7	(9.1-10.5)	10.5	(9.7-11.4)	10.2	(8.2-12.6)	6.5	(4.5-9.3)	2.8	(1.6-5.0)
Age										
18 - 49	2.1	(1.6-2.8)	2.3	(1.6-3.2)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	17.3	(16.1-18.6)	17.5	(16.2-18.9)	18.2	(14.6-22.5)	15.4	(10.3-22.5)	8.0	(4.4-14.2)
Gender										
Male	11.1	(10.0-12.3)	11.9	(10.7-13.2)	11.3	(8.0-15.7)	8.6	(5.4-13.4)	-- ^c	-- ^c
Female	8.5	(7.6-9.4)	9.2	(8.1-10.4)	9.2	(7.0-12.1)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	11.0	(9.7-12.3)	11.8	(10.3-13.4)	11.5	(8.2-15.9)	10.2	(5.5-18.1)	-- ^c	-- ^c
Some college or more	9.0	(8.2-9.9)	9.9	(8.9-10.9)	9.1	(6.8-12.1)	4.6	(3.1-6.7)	-- ^c	-- ^c
Household Income										
< \$35,000	14.8	(13.1-16.8)	15.9	(13.8-18.3)	15.6	(11.6-20.7)	14.2	(8.0-24.0)	-- ^c	-- ^c
\$35,000 +	7.4	(6.6-8.3)	8.3	(7.4-9.4)	6.3	(4.1-9.7)	4.3	(2.4-7.6)	-- ^c	-- ^c

^a The proportion who had ever been told by a doctor that they had a heart attack, coronary heart disease or a stroke.
^b Michigan estimates include all racial groups.
^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 35: Ever Told Skin Cancer^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	5.2	(4.8-5.7)	6.7	(6.1-7.3)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Age										
18 - 49	0.6	(0.3-1.0)	0.9	(0.5-1.5)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	9.8	(8.9-10.7)	11.5	(10.5-12.6)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	4.5	(3.9-5.2)	5.6	(4.9-6.5)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Female	5.9	(5.2-6.7)	7.7	(6.8-8.7)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	3.6	(2.9-4.3)	4.8	(4.0-5.8)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	6.3	(5.7-7.0)	7.7	(7.0-8.6)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Household Income										
< \$35,000	3.5	(2.8-4.3)	5.1	(4.1-6.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	5.5	(4.9-6.2)	6.6	(5.9-7.5)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion who reported ever being told by a doctor that they had skin cancer.

^b Michigan estimates include all racial groups.

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

**Table 36: Ever Told Any Other Type of Cancer^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	9.2	(8.6-9.9)	10.5	(9.8-11.4)	6.3	(4.7-8.4)	5.4	(3.6-8.2)	4.4	(2.7-6.9)
Age										
18 - 49	1.7	(1.3-2.2)	1.9	(1.4-2.6)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	16.6	(15.5-17.9)	17.7	(16.4-19.1)	11.2	(8.4-14.8)	16.4	(10.8-24.0)	12.7	(7.3-21.3)
Gender										
Male	8.0	(7.2-9.0)	9.2	(8.1-10.3)	5.6	(3.5-8.8)	4.4	(2.4-7.9)	-- ^c	-- ^c
Female	10.4	(9.4-11.5)	11.9	(10.7-13.1)	6.9	(4.7-9.9)	6.6	(3.7-11.4)	5.2	(2.9-8.9)
Education										
High school graduate or less	8.2	(7.1-9.5)	9.5	(8.2-11.1)	4.9	(2.7-8.7)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	9.9	(9.1-10.7)	11.1	(10.2-12.1)	7.4	(5.4-10.1)	4.6	(3.0-6.9)	-- ^c	-- ^c
Household Income										
< \$35,000	10.8	(9.2-12.5)	12.2	(10.4-14.4)	7.4	(4.4-12.0)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	8.4	(7.6-9.3)	9.5	(8.5-10.5)	6.0	(4.0-8.9)	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion who reported ever being told by a doctor that they had a form of cancer other than skin cancer.

^b Michigan estimates include all racial groups.

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

**Table 37: Ever Told Cancer^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	12.3	(11.6-13.1)	14.6	(13.7-15.5)	6.6	(5.0-8.8)	6.2	(4.2-9.0)	4.6	(2.9-7.2)
Age										
18 - 49	2.1	(1.6-2.7)	2.6	(1.9-3.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	22.3	(21.0-23.7)	24.5	(23.1-26.0)	11.9	(9.0-15.6)	18.6	(12.6-26.4)	13.8	(8.1-22.7)
Gender										
Male	10.6	(9.6-11.6)	12.4	(11.3-13.7)	6.3	(4.0-9.7)	4.9	(2.8-8.3)	-- ^c	-- ^c
Female	14.0	(12.9-15.2)	16.6	(15.3-18.1)	7.0	(4.8-10.0)	7.7	(4.5-12.8)	5.2	(2.9-8.9)
Education										
High school graduate or less	10.1	(8.9-11.5)	12.2	(10.7-13.9)	5.4	(3.0-9.2)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	13.7	(12.8-14.7)	15.9	(14.8-17.1)	7.7	(5.6-10.5)	5.7	(3.8-8.5)	-- ^c	-- ^c
Household Income										
< \$35,000	12.5	(10.9-14.3)	14.9	(12.9-17.2)	7.4	(4.4-12.0)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	11.7	(10.7-12.7)	13.5	(12.4-14.7)	6.7	(4.6-9.8)	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion who reported ever being told by a doctor that they had skin cancer or any other type of cancer.

^b Michigan estimates include all racial groups.

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

**Table 38: Ever Told Diabetes^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	12.3	(11.5-13.2)	11.5	(10.7-12.5)	19.3	(16.2-22.9)	11.3	(8.0-15.8)	8.1	(5.5-11.7)
Age										
18 - 49	4.8	(3.9-6.0)	3.7	(2.9-4.8)	10.9	(6.9-16.7)	-- ^c	-- ^c	-- ^c	-- ^c
50 +	19.7	(18.4-21.1)	18.1	(16.7-19.5)	27.2	(22.8-32.0)	21.6	(15.8-29.0)	30.0	(20.0-42.4)
Gender										
Male	13.4	(12.2-14.8)	12.3	(11.0-13.6)	20.5	(15.8-26.1)	14.4	(9.2-21.9)	10.9	(6.5-17.7)
Female	11.3	(10.2-12.5)	10.8	(9.7-12.1)	18.3	(14.4-23.1)	7.9	(4.7-12.8)	5.8	(3.2-10.4)
Education										
High school graduate or less	14.0	(12.4-15.8)	13.2	(11.5-15.0)	20.3	(15.2-26.6)	-- ^c	-- ^c	8.5	(4.9-14.4)
Some college or more	11.3	(10.4-12.3)	10.6	(9.7-11.7)	18.2	(14.6-22.4)	9.8	(7.0-13.4)	7.5	(4.4-12.6)
Household Income										
< \$35,000	17.8	(15.6-20.2)	16.9	(14.6-19.5)	22.4	(16.8-29.3)	18.4	(10.3-30.8)	11.7	(6.6-19.8)
\$35,000 +	10.1	(9.2-11.1)	9.9	(8.9-11.0)	14.3	(10.7-18.9)	8.6	(5.7-12.6)	-- ^c	-- ^c

^a The proportion who reported that they were ever told by a doctor that they had diabetes. Adults who had been told they have prediabetes and women who had diabetes only during pregnancy were classified as not having been diagnosed.

^b Michigan estimates include all racial groups.

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

**Table 39: Ever Told Kidney Disease^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	4.2	(3.7-4.8)	4.2	(3.7-4.8)	5.7	(4.1-8.0)	3.6	(2.1-6.2)	-- ^c	-- ^c
Age										
18 - 49	1.5	(1.0-2.2)	1.5	(1.0-2.3)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	6.9	(6.1-7.8)	6.6	(5.8-7.5)	8.7	(6.4-11.7)	9.6	(5.3-16.5)	-- ^c	-- ^c
Gender										
Male	3.5	(2.9-4.2)	3.7	(3.1-4.6)	4.6	(2.9-7.3)	-- ^c	-- ^c	-- ^c	-- ^c
Female	4.9	(4.2-5.7)	4.7	(4.0-5.6)	6.7	(4.3-10.4)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	4.9	(4.0-6.0)	4.7	(3.8-5.9)	6.4	(3.6-11.1)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	3.8	(3.3-4.4)	4.0	(3.4-4.7)	4.8	(3.4-6.9)	-- ^c	-- ^c	-- ^c	-- ^c
Household Income										
< \$35,000	6.8	(5.5-8.4)	6.4	(5.0-8.1)	9.4	(5.8-15.0)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	3.0	(2.5-3.6)	3.3	(2.7-4.0)	2.0	(1.2-3.4)	-- ^c	-- ^c	-- ^c	-- ^c

^a The proportion who reported ever being told by a doctor that they had kidney disease.

^b Michigan estimates include all racial groups.

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

**Table 40: Ever Told Depression^a by Race-Ethnicity
2023 Michigan BRFSS**

Demographic Characteristics	Michigan ^b		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	24.3	(23.2-25.6)	25.5	(24.2-26.9)	19.9	(16.7-23.6)	21.1	(16.8-26.1)	23.6	(18.2-30.1)
Age										
18 - 49	29.3	(27.3-31.4)	31.9	(29.5-34.5)	23.5	(18.2-29.8)	23.2	(17.3-30.3)	24.6	(18.2-32.4)
50 +	19.8	(18.5-21.1)	20.4	(19.0-21.9)	16.7	(13.3-20.9)	17.8	(13.0-24.0)	21.5	(12.9-33.6)
Gender										
Male	16.9	(15.4-18.5)	17.7	(16.1-19.5)	12.6	(8.8-17.8)	16.7	(11.4-23.7)	15.3	(9.7-23.4)
Female	31.4	(29.6-33.2)	33.0	(31.0-35.1)	26.2	(21.6-31.4)	25.9	(19.4-33.8)	30.1	(22.1-39.6)
Education										
High school graduate or less	25.3	(23.2-27.6)	26.7	(24.2-29.4)	21.4	(16.4-27.5)	28.8	(19.7-39.8)	17.1	(11.3-25.0)
Some college or more	23.8	(22.4-25.3)	24.9	(23.4-26.5)	18.8	(14.9-23.4)	17.2	(13.0-22.4)	31.1	(22.6-41.2)
Household Income										
< \$35,000	33.6	(30.7-36.5)	37.1	(33.6-40.7)	23.4	(18.0-29.9)	32.4	(22.5-44.2)	32.1	(21.5-44.9)
\$35,000 +	21.5	(20.1-23.1)	23.2	(21.5-24.9)	14.0	(10.2-19.0)	15.7	(10.9-22.1)	21.1	(14.2-30.3)

^a The proportion who reported ever being told by a doctor that they had a depressive disorder including depression, major depression, dysthymia, or minor depression.

^b Michigan estimates include all racial groups.