

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

State of Michigan

Selected Tables

Michigan Behavioral Risk Factor Survey

2018

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

Table of Contents

Introduction.....	2
Table 1: Fair or Poor General Health ^a by Race-Ethnicity	3
Table 2: Poor Physical Health on at Least 14 Days in the Past Month ^a by Race-Ethnicity	4
Table 3: Poor Mental Health on at Least 14 Days in the Past Month ^a by Race-Ethnicity	5
Table 4: Activity Limitation on at Least 14 Days in the Past Month ^a by Race-Ethnicity	6
Table 5: Disability ^a by Race-Ethnicity	7
Table 6: Obesity ^a by Race-Ethnicity.....	8
Table 7: No Health Care Coverage among Adults Aged 18 - 64 Years ^a by Race-Ethnicity	9
Table 8: No Personal Health Care Provider ^a by Race-Ethnicity	10
Table 9: No Health Care Access during Past 12 Months Due to Cost ^a by Race-Ethnicity	11
Table 10: No Leisure Time Physical Activity ^a by Race-Ethnicity	12
Table 11: Current Smoking ^a by Race-Ethnicity.....	13
Table 12: Current E-Cigarette Use ^a by Race-Ethnicity	14
Table 13: Current Hookah Use ^a by Race-Ethnicity	15
Table 14: Any Alcohol Consumption ^a by Race-Ethnicity	16
Table 15: Heavy Drinking ^a by Race-Ethnicity	17
Table 16: Binge Drinking ^a by Race-Ethnicity	18
Table 17: Drove Motor Vehicle After Drinking ^a by Race-Ethnicity	19
Table 18: Seatbelt Use ^a by Race-Ethnicity	20
Table 19: No Routine Checkup in Past Year ^a by Race-Ethnicity.....	21
Table 20: Mammography in the Past Two Years among Women Aged 40 and Older ^a by Race-Ethnicity	22
Table 21: Appropriate Timed Pap Test among Women Aged 18 and Older ^a by Race-Ethnicity.....	23
Table 22: Prostate-Specific Antigen (PSA) Test Within the Past Year among Men Aged 50 and Older ^a by Race-Ethnicity.....	24
Table 23: Appropriate Colorectal Cancer Screening among Adults Aged 50 and Older ^a by Race-Ethnicity	25
Table 24: No Dental Visit in the Past Year ^a by Race-Ethnicity	26
Table 25: Had Flu Vaccine in Past Year among Adults 65 Years and Older ^a by Race-Ethnicity	27
Table 26: Ever Had Pneumonia Vaccine among Adults 65 Years and Older ^a by Race-Ethnicity	28
Table 27: Ever Had an HIV Test among Adults 18 – 64 Years of Age ^a by Race-Ethnicity	29
Table 28: Lifetime Asthma Prevalence - Adult ^a by Race-Ethnicity	30
Table 29: Current Asthma Prevalence - Adult ^a by Race-Ethnicity	31
Table 30: Ever Told Chronic Obstructive Pulmonary Disease (COPD) ^a by Race-Ethnicity	32
Table 31: Ever Told Arthritis ^a by Race-Ethnicity	33
Table 32: Ever Told Heart Attack ^a by Race-Ethnicity	34
Table 33: Ever Told Angina or Coronary Heart Disease ^a by Race-Ethnicity	35
Table 34: Ever Told Stroke ^a by Race-Ethnicity	36
Table 35: Ever Told Any Cardiovascular Disease ^a by Race-Ethnicity	37
Table 36: Ever Told Skin Cancer ^a by Race-Ethnicity.....	38
Table 37: Ever Told Any Other Type of Cancer ^a by Race-Ethnicity	39
Table 38: Ever Told Cancer ^a by Race-Ethnicity.....	40
Table 39: Ever Told Diabetes ^a by Race-Ethnicity	41
Table 40: Ever Told Kidney Disease ^a by Race-Ethnicity	42
Table 41: Ever Told Depression ^a by Race-Ethnicity	43

Introduction

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

In 2018, the total sample size of completed interviews for the core survey was 10,621 (land line = 2,706; cell phone = 7,915) which consisted of 8,260 White, non-Hispanics, 968 Black, non-Hispanics, 560 Other/Multiracial, non-Hispanics, and 293 Hispanics. 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 2018 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 2018 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 2018 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 2011-2017 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 Allison Murad at MuradA@michigan.gov.

**Table 1: Fair or Poor General Health^a by Race-Ethnicity
2018 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	19.1	(18.2-20.2)	17.7	(16.6-18.8)	25.8	(22.7-29.1)	19.4	(15.4-24.3)	24.7	(19.1-31.4)
Age										
18 - 49	14.8	(13.5-16.3)	13.5	(11.9-15.1)	18.4	(14.8-22.7)	15.8	(11.1-21.8)	20.7	(14.7-28.3)
50 +	23.7	(22.3-25.1)	21.5	(20.0-23.0)	36.5	(31.5-41.9)	29.6	(22.2-38.2)	37.8	(25.8-51.6)
Gender										
Male	18.4	(17.1-19.9)	17.3	(15.8-18.9)	23.2	(18.9-28.1)	16.7	(11.7-23.3)	26.8	(18.8-36.5)
Female	19.8	(18.4-21.2)	18.0	(16.5-19.6)	27.9	(23.7-32.5)	22.4	(16.4-29.7)	22.5	(15.2-31.8)
Education										
High school graduate or less	26.5	(24.6-28.5)	25.0	(22.8-27.2)	31.2	(26.1-36.7)	26.4	(18.0-37.0)	33.7	(24.3-44.6)
Some college or more	14.2	(13.3-15.3)	13.2	(12.2-14.3)	20.1	(16.7-24.0)	16.2	(12.2-21.3)	15.0	(9.9-22.0)
Household Income										
< \$35,000	33.6	(31.3-35.8)	32.9	(30.3-35.6)	36.4	(31.4-41.8)	33.8	(25.2-43.5)	29.7	(20.6-40.6)
\$35,000 +	11.6	(10.5-12.7)	11.0	(9.9-12.3)	12.0	(8.4-16.7)	13.3	(8.4-20.2)	20.7	(12.9-31.5)

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

^b Michigan estimates include all racial groups.

**Table 2: Poor Physical Health on at Least 14 Days in the Past Month^a by Race-Ethnicity
2018 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	14.3	(13.5-15.2)	14.1	(13.2-15.1)	16.8	(14.2-19.8)	14.7	(11.3-19.0)	9.7	(6.3-14.7)
Age										
18 - 49	9.6	(8.5-10.8)	9.7	(8.5-11.2)	10.1	(7.4-13.6)	11.1	(7.4-16.3)	-- ^c	-- ^c
50 +	19.3	(18.0-20.7)	18.0	(16.7-19.5)	26.7	(22.0-31.9)	24.9	(18.0-33.3)	25.8	(15.5-39.7)
Gender										
Male	12.7	(11.5-13.9)	12.4	(11.1-13.8)	16.5	(12.8-21.2)	10.3	(6.9-15.1)	8.5	(4.7-14.9)
Female	15.8	(14.6-17.2)	15.7	(14.4-17.2)	16.6	(13.2-20.7)	19.0	(13.5-26.1)	-- ^c	-- ^c
Education										
High school graduate or less	19.3	(17.6-21.2)	19.3	(17.4-21.4)	21.7	(17.3-26.7)	19.9	(13.0-29.2)	12.9	(7.3-21.9)
Some college or more	10.9	(10.1-11.8)	10.9	(10.0-11.9)	11.7	(9.0-15.0)	12.3	(8.7-17.0)	6.3	(3.6-10.9)
Household Income										
< \$35,000	24.5	(22.5-26.6)	25.7	(23.3-28.3)	22.8	(18.6-27.7)	28.6	(20.9-37.8)	12.1	(6.8-20.6)
\$35,000 +	8.3	(7.4-9.3)	8.7	(7.7-9.8)	7.1	(4.5-11.1)	-- ^c	-- ^c	-- ^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
2018 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	14.3	(13.4-15.3)	14.0	(13.0-15.0)	14.2	(11.8-17.1)	15.6	(12.1-19.9)	19.9	(14.6-26.4)
Age										
18 - 49	17.6	(16.1-19.2)	18.5	(16.7-20.4)	13.9	(10.6-17.9)	15.3	(11.0-20.8)	19.4	(13.3-27.3)
50 +	10.9	(9.9-12.0)	10.0	(9.0-11.1)	14.8	(11.2-19.3)	16.5	(11.2-23.6)	21.5	(12.8-33.8)
Gender										
Male	11.4	(10.2-12.7)	10.5	(9.3-11.9)	14.0	(10.4-18.6)	9.5	(6.2-14.3)	20.8	(13.6-30.3)
Female	17.0	(15.7-18.4)	17.1	(15.6-18.6)	14.5	(11.3-18.3)	21.4	(15.7-28.5)	18.6	(11.7-28.3)
Education										
High school graduate or less	18.3	(16.6-20.2)	18.3	(16.3-20.4)	16.2	(12.4-20.9)	22.1	(14.6-32.0)	22.2	(14.2-33.0)
Some college or more	11.7	(10.7-12.7)	11.2	(10.2-12.3)	12.7	(9.7-16.5)	12.4	(9.1-16.7)	17.2	(11.4-25.1)
Household Income										
< \$35,000	22.7	(20.8-24.8)	23.7	(21.3-26.2)	18.3	(14.4-22.9)	22.1	(15.1-31.1)	29.7	(20.2-41.2)
\$35,000 +	9.8	(8.8-11.0)	9.8	(8.7-11.0)	8.8	(5.7-13.5)	9.7	(6.0-15.3)	13.6	(7.6-23.1)

^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.

**Table 4: Activity Limitation on at Least 14 Days in the Past Month^a by Race-Ethnicity
2018 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	10.5	(9.7-11.3)	9.7	(8.9-10.6)	12.2	(9.9-14.8)	12.6	(9.3-16.9)	17.5	(12.0-24.8)
Age										
18 - 49	8.6	(7.5-9.8)	8.2	(7.0-9.5)	6.9	(4.8-9.9)	10.1	(6.4-15.5)	15.2	(9.2-24.2)
50 +	12.5	(11.5-13.7)	11.1	(10.0-12.3)	19.9	(15.7-24.8)	19.5	(13.4-27.4)	24.9	(14.7-38.8)
Gender										
Male	9.5	(8.4-10.7)	8.8	(7.7-10.1)	11.0	(8.1-14.8)	7.8	(4.9-12.3)	18.3	(10.6-29.7)
Female	11.5	(10.4-12.6)	10.5	(9.4-11.8)	13.1	(10.1-16.9)	17.9	(12.3-25.2)	16.5	(9.8-26.3)
Education										
High school graduate or less	14.4	(12.9-16.1)	13.4	(11.7-15.2)	15.4	(11.8-20.0)	17.7	(11.0-27.4)	23.0	(14.1-35.3)
Some college or more	7.9	(7.1-8.7)	7.4	(6.6-8.2)	8.7	(6.5-11.5)	10.7	(7.3-15.3)	11.4	(6.8-18.6)
Household Income										
< \$35,000	19.0	(17.2-21.0)	19.0	(16.9-21.3)	17.4	(13.7-21.8)	21.5	(14.4-30.8)	23.7	(15.1-35.2)
\$35,000 +	5.8	(5.0-6.7)	5.6	(4.8-6.6)	3.7	(2.1-6.5)	6.5	(3.6-11.3)	-- ^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%.

**Table 5: Disability^a by Race-Ethnicity
2018 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	27.6	(26.5-28.8)	27.5	(26.3-28.8)	29.1	(25.7-32.8)	24.3	(19.7-29.6)	27.3	(20.9-34.8)
Age										
18 - 49	18.4	(16.8-20.0)	18.6	(16.8-20.5)	17.0	(13.2-21.6)	19.4	(14.0-26.2)	18.3	(11.7-27.4)
50 +	36.9	(35.3-38.5)	35.2	(33.5-36.9)	46.8	(41.3-52.5)	36.8	(28.8-45.6)	55.1	(42.2-67.4)
Gender										
Male	25.9	(24.3-27.5)	25.9	(24.1-27.7)	29.4	(24.4-35.0)	18.9	(13.8-25.4)	23.4	(15.0-34.4)
Female	29.0	(27.5-30.7)	28.9	(27.2-30.7)	28.7	(24.2-33.7)	30.3	(23.2-38.6)	31.6	(22.5-42.3)
Education										
High school graduate or less	32.5	(30.4-34.7)	32.2	(29.8-34.6)	34.2	(28.6-40.2)	27.9	(19.3-38.6)	35.9	(25.2-48.1)
Some college or more	24.2	(23.0-25.5)	24.5	(23.2-25.9)	23.9	(20.0-28.1)	23.2	(18.1-29.2)	19.2	(13.1-27.1)
Household Income										
< \$35,000	43.3	(40.9-45.8)	45.3	(42.5-48.2)	39.2	(33.9-44.8)	39.7	(30.5-49.6)	38.7	(27.9-50.8)
\$35,000 +	18.7	(17.5-20.0)	19.5	(18.2-21.0)	12.4	(9.1-16.9)	13.5	(8.8-20.2)	20.0	(11.9-31.7)

^a The proportion who reported being limited in any activities because of physical, mental, or emotional problems, or reported that they required use of special equipment (such as a cane, a wheelchair, a special bed, or a special telephone) due to a health problem.

^b Michigan estimates include all racial groups.

**Table 6: Obesity^a by Race-Ethnicity
2018 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	33.1	(31.9-34.3)	32.4	(31.1-33.8)	40.3	(36.4-44.3)	21.8	(17.5-26.7)	35.7	(28.7-43.3)
Age										
18 - 49	30.7	(28.9-32.6)	29.5	(27.4-31.6)	41.4	(36.1-46.9)	19.9	(14.9-26.1)	30.7	(23.0-39.6)
50 +	35.5	(34.0-37.2)	35.0	(33.4-36.8)	38.8	(33.3-44.5)	26.9	(20.0-35.2)	49.6	(36.3-63.0)
Gender										
Male	31.5	(29.8-33.2)	32.3	(30.5-34.2)	30.9	(25.6-36.9)	18.8	(13.8-25.2)	31.6	(23.1-41.6)
Female	34.6	(32.9-36.4)	32.4	(30.6-34.4)	49.0	(43.7-54.2)	23.9	(17.6-31.5)	39.7	(29.2-51.3)
Education										
High school graduate or less	34.4	(32.2-36.6)	34.3	(31.9-36.8)	37.0	(31.3-43.2)	18.5	(11.9-27.7)	39.4	(28.5-51.6)
Some college or more	32.1	(30.7-33.6)	31.2	(29.7-32.8)	42.8	(37.9-48.0)	22.7	(17.8-28.5)	31.6	(23.8-40.7)
Household Income										
< \$35,000	37.4	(35.1-39.8)	37.1	(34.4-39.9)	40.3	(34.9-46.0)	25.1	(18.3-33.5)	39.8	(28.4-52.5)
\$35,000 +	32.1	(30.5-33.7)	31.4	(29.7-33.1)	45.2	(38.7-52.0)	21.0	(15.2-28.2)	33.0	(23.6-43.9)

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
2018 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	8.9	(8.0-9.8)	8.1	(7.2-9.2)	9.7	(7.3-12.7)	10.4	(7.3-14.7)	16.3	(11.4-22.9)
Age										
18 - 49	10.8	(9.6-12.1)	10.0	(8.6-11.5)	10.7	(7.7-14.6)	11.9	(8.0-17.2)	19.2	(13.2-27.0)
50 - 64	5.3	(4.4-6.5)	5.1	(4.1-6.3)	7.3	(4.3-12.0)	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	11.2	(9.8-12.7)	10.2	(8.7-11.9)	12.7	(8.8-18.0)	13.2	(9.0-19.0)	18.5	(11.7-27.9)
Female	6.6	(5.6-7.7)	6.0	(4.9-7.2)	6.7	(4.4-10.1)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	12.7	(11.0-14.8)	11.8	(9.8-14.0)	14.1	(9.9-19.7)	-- ^c	-- ^c	21.2	(13.2-32.2)
Some college or more	6.4	(5.6-7.3)	5.9	(5.1-6.9)	5.7	(3.7-8.6)	10.2	(6.8-14.8)	11.0	(6.4-18.0)
Household Income										
< \$35,000	13.5	(11.6-15.7)	12.9	(10.7-15.5)	12.9	(9.0-18.2)	9.8	(5.6-16.4)	23.9	(15.2-35.7)
\$35,000 +	5.8	(5.0-6.9)	5.6	(4.7-6.7)	-- ^c	-- ^c	9.6	(5.5-16.3)	-- ^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: No Personal Health Care Provider^a by Race-Ethnicity
2018 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	14.9	(14.0-16.0)	13.9	(12.9-15.0)	17.4	(14.4-20.9)	19.0	(15.3-23.5)	22.2	(16.5-29.1)
Age										
18 - 49	23.3	(21.6-25.1)	22.9	(21.0-25.0)	24.7	(20.1-29.9)	22.8	(17.9-28.6)	25.1	(18.4-33.3)
50 +	6.3	(5.5-7.1)	6.0	(5.2-6.9)	6.7	(4.4-10.0)	8.7	(5.4-13.9)	-- ^c	-- ^c
Gender										
Male	19.9	(18.4-21.6)	18.1	(16.5-19.9)	26.5	(21.1-32.7)	25.9	(20.4-32.1)	26.8	(18.8-36.5)
Female	10.2	(9.1-11.4)	9.9	(8.7-11.3)	9.6	(7.2-12.8)	11.5	(7.2-17.9)	17.0	(9.9-27.7)
Education										
High school graduate or less	18.5	(16.7-20.5)	16.8	(14.8-19.0)	22.4	(17.4-28.3)	20.2	(13.1-29.8)	30.0	(20.7-41.4)
Some college or more	12.6	(11.6-13.7)	12.1	(11.0-13.3)	13.3	(10.0-17.4)	17.7	(13.9-22.4)	12.9	(8.1-19.9)
Household Income										
< \$35,000	18.9	(17.0-21.0)	17.0	(14.8-19.3)	19.4	(15.1-24.5)	27.8	(20.5-36.4)	32.9	(22.7-45.1)
\$35,000 +	12.6	(11.4-13.9)	12.3	(11.0-13.6)	13.9	(9.6-19.8)	15.3	(10.3-22.1)	13.2	(7.2-22.9)

^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 9: No Health Care Access during Past 12 Months Due to Cost^a by Race-Ethnicity
2018 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	11.8	(10.9-12.6)	10.5	(9.7-11.5)	16.1	(13.4-19.4)	17.0	(13.2-21.4)	15.1	(10.9-20.6)
Age										
18 - 49	14.5	(13.1-15.9)	13.8	(12.3-15.4)	15.5	(11.9-20.0)	16.4	(12.1-21.9)	17.7	(12.5-24.5)
50 +	8.9	(8.0-10.0)	7.7	(6.8-8.7)	17.1	(13.0-22.0)	18.4	(12.0-27.1)	-- ^c	-- ^c
Gender										
Male	10.6	(9.5-11.8)	9.3	(8.2-10.6)	16.0	(12.1-20.9)	15.4	(10.8-21.6)	12.2	(7.5-19.1)
Female	12.7	(11.5-14.0)	11.6	(10.3-12.9)	16.2	(12.5-20.6)	17.2	(12.1-23.8)	18.0	(11.6-27.0)
Education										
High school graduate or less	13.6	(12.1-15.2)	12.0	(10.4-13.7)	18.9	(14.3-24.4)	19.9	(12.8-29.6)	16.0	(9.8-24.9)
Some college or more	10.4	(9.5-11.4)	9.6	(8.6-10.7)	12.8	(10.1-16.3)	14.5	(10.8-19.3)	14.0	(9.2-20.8)
Household Income										
< \$35,000	19.5	(17.6-21.6)	17.3	(15.2-19.7)	22.4	(17.8-27.8)	28.5	(20.6-38.0)	26.1	(17.5-37.0)
\$35,000 +	8.2	(7.3-9.3)	8.1	(7.1-9.2)	8.8	(5.9-13.0)	10.0	(5.9-16.4)	8.6	(4.7-15.1)

^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 10: No Leisure Time Physical Activity^a by Race-Ethnicity
2018 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	23.8	(22.8-24.9)	22.6	(21.4-23.8)	31.1	(27.7-34.7)	23.4	(18.9-28.6)	25.1	(19.3-32.0)
Age										
18 - 49	19.0	(17.5-20.5)	17.1	(15.4-18.8)	26.1	(21.9-30.9)	23.4	(17.8-30.0)	18.4	(12.9-25.7)
50 +	28.9	(27.5-30.5)	27.5	(25.9-29.1)	38.3	(33.2-43.8)	23.4	(16.9-31.4)	46.8	(33.8-60.3)
Gender										
Male	21.4	(19.9-23.0)	20.7	(19.1-22.5)	25.3	(20.5-30.7)	22.6	(16.8-29.7)	21.6	(14.8-30.3)
Female	26.0	(24.6-27.6)	24.3	(22.7-26.0)	36.0	(31.5-40.8)	22.4	(16.3-30.0)	29.0	(20.2-39.8)
Education										
High school graduate or less	31.9	(29.8-34.0)	31.0	(28.7-33.4)	37.0	(31.5-42.8)	27.4	(18.7-38.2)	32.3	(22.9-43.4)
Some college or more	18.5	(17.4-19.6)	17.4	(16.2-18.6)	25.8	(21.9-30.1)	20.1	(15.5-25.7)	17.3	(11.6-24.9)
Household Income										
< \$35,000	34.9	(32.6-37.2)	34.3	(31.7-37.0)	39.2	(34.1-44.5)	29.3	(21.0-39.1)	28.1	(18.6-40.1)
\$35,000 +	17.0	(15.8-18.3)	16.4	(15.1-17.8)	20.2	(15.7-25.7)	17.6	(12.3-24.7)	21.9	(14.3-32.0)

^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 11: Current Smoking^a by Race-Ethnicity
2018 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	19.1	(18.0-20.1)	17.9	(16.8-19.1)	22.8	(19.7-26.2)	21.8	(17.3-27.1)	26.1	(19.9-33.4)
Age										
18 - 49	23.1	(21.4-24.8)	22.6	(20.8-24.6)	23.2	(19.0-28.1)	22.0	(16.6-28.7)	29.0	(21.4-38.0)
50 +	14.9	(13.8-16.2)	13.8	(12.6-15.1)	22.1	(17.9-27.0)	21.1	(14.7-29.4)	17.4	(9.4-30.0)
Gender										
Male	21.0	(19.5-22.6)	20.1	(18.4-21.9)	24.0	(19.3-29.5)	23.3	(17.8-29.9)	26.1	(17.9-36.2)
Female	17.0	(15.7-18.4)	15.6	(14.2-17.1)	21.6	(17.7-26.1)	20.4	(13.9-28.8)	25.9	(17.2-37.1)
Education										
High school graduate or less	27.3	(25.3-29.4)	25.6	(23.5-28.0)	31.5	(26.1-37.4)	33.4	(23.5-45.1)	34.1	(23.6-46.4)
Some college or more	13.5	(12.5-14.6)	13.0	(11.9-14.2)	15.1	(11.9-18.9)	16.1	(12.3-20.8)	17.9	(12.5-24.8)
Household Income										
< \$35,000	29.3	(27.1-31.6)	28.6	(26.1-31.3)	31.0	(26.1-36.4)	30.2	(22.3-39.6)	30.3	(20.5-42.3)
\$35,000 +	14.2	(13.0-15.5)	13.8	(12.5-15.2)	12.5	(8.8-17.6)	18.1	(12.3-26.0)	23.3	(14.9-34.7)

^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.

**Table 12: Current E-Cigarette Use^a by Race-Ethnicity
2018 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	6.0	(5.2-7.0)	6.0	(5.1-7.1)	-- ^c	-- ^c	9.6	(5.9-15.2)	-- ^c	-- ^c
Age										
18 - 49	10.1	(8.5-11.8)	10.6	(8.8-12.6)	-- ^c	-- ^c	11.9	(6.9-19.7)	-- ^c	-- ^c
50 +	2.1	(1.6-2.8)	2.2	(1.6-3.0)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	8.0	(6.7-9.6)	8.3	(6.8-10.0)	-- ^c	-- ^c	9.0	(5.1-15.3)	-- ^c	-- ^c
Female	4.0	(3.1-5.1)	3.7	(2.8-4.9)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	8.7	(7.0-10.7)	9.2	(7.3-11.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	4.3	(3.5-5.2)	4.0	(3.3-5.0)	-- ^c	-- ^c	7.1	(4.2-11.7)	-- ^c	-- ^c
Household Income										
< \$35,000	6.1	(4.8-7.8)	6.7	(5.0-8.8)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	5.7	(4.6-7.0)	5.8	(4.6-7.2)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^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%.

**Table 13: Current Hookah Use^a by Race-Ethnicity
2018 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	3.1	(2.5-3.8)	2.3	(1.8-3.0)	5.6	(3.7-8.3)	7.7	(4.4-13.1)	-- ^c	-- ^c
Age										
18 - 49	4.8	(3.7-6.1)	3.6	(2.6-5.1)	8.0	(5.1-12.3)	-- ^c	-- ^c	-- ^c	-- ^c
50 +	1.4	(1.0-2.0)	1.2	(0.8-1.8)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	4.0	(3.1-5.2)	3.0	(2.1-4.3)	7.2	(4.2-12.0)	-- ^c	-- ^c	-- ^c	-- ^c
Female	2.2	(1.6-2.9)	1.6	(1.1-2.4)	4.0	(2.2-7.2)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	4.1	(3.0-5.5)	3.2	(2.1-4.8)	5.5	(3.0-9.7)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	2.4	(1.8-3.2)	1.7	(1.2-2.5)	5.6	(3.2-9.5)	-- ^c	-- ^c	-- ^c	-- ^c
Household Income										
< \$35,000	3.8	(2.8-5.2)	2.8	(1.8-4.3)	4.7	(2.6-8.4)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	3.0	(2.3-4.1)	2.2	(1.5-3.3)	8.7	(4.9-15.0)	-- ^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 14: Any Alcohol Consumption^a by Race-Ethnicity
2018 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	55.9	(54.6-57.1)	57.4	(56.0-58.8)	51.1	(47.1-55.1)	48.5	(42.8-54.3)	49.7	(42.2-57.2)
Age										
18 - 49	60.3	(58.3-62.3)	62.5	(60.1-64.7)	55.9	(50.4-61.3)	51.0	(43.9-58.0)	56.4	(47.3-65.0)
50 +	51.2	(49.6-52.9)	52.9	(51.2-54.7)	44.0	(38.4-49.7)	41.9	(33.3-51.1)	31.0	(21.1-43.1)
Gender										
Male	60.5	(58.6-62.3)	62.9	(60.9-64.9)	52.0	(45.8-58.1)	49.6	(42.3-57.0)	54.0	(43.9-63.9)
Female	51.4	(49.6-53.1)	52.1	(50.1-54.0)	50.6	(45.5-55.7)	46.4	(38.0-55.0)	44.8	(34.2-55.9)
Education										
High school graduate or less	45.6	(43.3-47.9)	44.9	(42.4-47.5)	48.1	(41.9-54.5)	50.7	(39.4-61.8)	43.8	(32.2-56.1)
Some college or more	62.4	(61.0-63.9)	64.9	(63.4-66.5)	54.2	(49.1-59.1)	46.7	(40.5-53.0)	55.9	(46.7-64.7)
Household Income										
< \$35,000	42.6	(40.2-45.0)	41.3	(38.6-44.2)	48.3	(42.7-54.0)	40.0	(31.0-49.7)	36.2	(25.8-48.0)
\$35,000 +	65.7	(64.1-67.3)	67.1	(65.4-68.7)	58.9	(52.2-65.2)	56.0	(47.8-63.9)	62.3	(51.5-71.9)

^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 15: Heavy Drinking^a by Race-Ethnicity
2018 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	6.1	(5.5-6.7)	6.5	(5.8-7.2)	4.3	(3.0-6.1)	5.4	(3.6-8.1)	5.0	(3.1-8.1)
Age										
18 - 49	6.9	(6.0-7.9)	7.5	(6.4-8.8)	5.8	(3.8-8.6)	5.3	(3.2-8.6)	4.7	(2.6-8.3)
50 +	5.2	(4.6-6.0)	5.6	(4.9-6.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	6.7	(5.8-7.6)	7.3	(6.3-8.4)	4.0	(2.2-7.2)	4.2	(2.4-7.3)	-- ^c	-- ^c
Female	5.5	(4.8-6.3)	5.7	(4.9-6.6)	4.4	(2.8-6.8)	6.5	(3.7-11.1)	-- ^c	-- ^c
Education										
High school graduate or less	5.4	(4.6-6.5)	6.1	(5.0-7.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	6.5	(5.8-7.3)	6.7	(6.0-7.6)	5.2	(3.3-8.0)	5.3	(3.2-8.8)	7.0	(4.0-12.1)
Household Income										
< \$35,000	6.0	(4.9-7.2)	6.3	(5.0-7.8)	5.4	(3.4-8.5)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	6.6	(5.9-7.5)	7.1	(6.2-8.0)	-- ^c	-- ^c	6.9	(4.1-11.5)	-- ^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%.

**Table 16: Binge Drinking^a by Race-Ethnicity
2018 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	17.3	(16.4-18.3)	17.8	(16.7-18.9)	13.6	(11.1-16.6)	15.8	(12.0-20.4)	22.0	(16.3-29.1)
Age										
18 - 49	23.7	(22.1-25.4)	25.6	(23.7-27.6)	16.4	(12.7-20.9)	17.0	(12.4-23.0)	26.6	(19.5-35.3)
50 +	10.7	(9.7-11.7)	10.8	(9.8-12.0)	9.5	(6.8-13.3)	12.2	(7.7-18.9)	-- ^c	-- ^c
Gender										
Male	22.2	(20.7-23.8)	23.1	(21.4-24.9)	16.6	(12.5-21.7)	15.4	(11.3-20.7)	30.2	(21.3-41.0)
Female	12.4	(11.3-13.6)	12.5	(11.3-13.8)	10.5	(7.8-14.1)	15.2	(9.8-22.9)	13.1	(7.8-21.2)
Education										
High school graduate or less	16.5	(14.9-18.3)	16.3	(14.5-18.3)	14.1	(10.4-18.9)	18.0	(10.8-28.5)	25.3	(16.3-37.2)
Some college or more	17.6	(16.5-18.8)	18.6	(17.3-19.9)	12.8	(9.7-16.8)	14.0	(10.4-18.7)	18.3	(12.7-25.7)
Household Income										
< \$35,000	13.8	(12.2-15.6)	14.0	(12.1-16.1)	13.7	(10.2-18.2)	10.0	(5.8-16.6)	14.8	(8.9-23.7)
\$35,000 +	20.9	(19.5-22.4)	20.9	(19.5-22.5)	16.4	(12.0-22.1)	21.1	(15.0-28.8)	29.6	(20.0-41.4)

^a The proportion who reported consuming five or more drinks per occasion at least once 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%.

**Table 17: Drove Motor Vehicle After Drinking^a by Race-Ethnicity
2018 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	2.1	(1.8-2.5)	2.2	(1.8-2.6)	1.6	(0.9-2.9)	--b	--b	--b	--b
Age										
18 - 49	2.4	(1.9-3.1)	2.5	(1.9-3.3)	--b	--b	--b	--b	--b	--b
50 +	1.8	(1.4-2.3)	1.9	(1.5-2.4)	--b	--b	--b	--b	--b	--b
Gender										
Male	3.0	(2.4-3.7)	3.2	(2.6-4.0)	--b	--b	--b	--b	--b	--b
Female	1.2	(0.9-1.7)	1.1	(0.8-1.7)	--b	--b	--b	--b	--b	--b
Education										
High school graduate or less	2.0	(1.4-2.7)	2.1	(1.5-3.0)	--b	--b	--b	--b	--b	--b
Some college or more	2.2	(1.8-2.7)	2.2	(1.7-2.8)	--b	--b	--b	--b	--b	--b
Household Income										
< \$35,000	1.7	(1.2-2.4)	2.0	(1.4-2.9)	--b	--b	--b	--b	--b	--b
\$35,000 +	2.5	(2.0-3.1)	2.6	(2.0-3.3)	--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 18: Seatbelt Use^a by Race-Ethnicity
2018 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	84.8	(83.9-85.7)	86.1	(85.0-87.0)	79.9	(76.6-82.8)	84.1	(79.9-87.5)	78.1	(70.9-84.0)
Age										
18 - 49	80.4	(78.8-81.9)	81.6	(79.7-83.3)	76.4	(71.6-80.5)	82.5	(77.3-86.7)	74.7	(66.2-81.7)
50 +	89.4	(88.4-90.4)	90.0	(89.0-91.0)	85.1	(80.6-88.7)	88.3	(80.9-93.0)	-- ^c	-- ^c
Gender										
Male	80.8	(79.3-82.3)	81.8	(80.2-83.4)	76.3	(70.8-81.0)	79.4	(73.1-84.5)	77.2	(67.1-84.9)
Female	88.7	(87.5-89.7)	90.1	(88.9-91.3)	83.6	(79.7-86.9)	87.0	(81.0-91.4)	79.2	(68.3-87.1)
Education										
High school graduate or less	82.0	(80.2-83.7)	83.6	(81.6-85.3)	78.5	(73.2-83.1)	81.9	(72.9-88.3)	70.2	(58.3-79.9)
Some college or more	86.8	(85.7-87.8)	87.7	(86.6-88.8)	81.4	(77.3-84.9)	84.0	(79.1-87.9)	86.5	(79.8-91.2)
Household Income										
< \$35,000	84.7	(82.9-86.4)	85.9	(83.8-87.8)	83.6	(79.0-87.3)	82.7	(73.9-89.0)	76.6	(64.2-85.7)
\$35,000 +	87.1	(85.9-88.3)	87.6	(86.3-88.8)	83.6	(78.0-87.9)	86.6	(80.6-91.0)	84.5	(73.5-91.5)

^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%.

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.

2018 Michigan BRFSS Estimates by Race-Ethnicity
May 2020

**Table 19: No Routine Checkup in Past Year^a by Race-Ethnicity
2018 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	20.7	(19.6-21.8)	21.2	(20.0-22.4)	16.1	(13.3-19.4)	20.1	(16.0-25.0)	25.7	(20.0-32.4)
Age										
18 - 49	28.4	(26.7-30.2)	30.3	(28.3-32.5)	20.8	(16.6-25.7)	24.3	(19.0-30.5)	29.3	(22.2-37.5)
50 +	12.6	(11.6-13.8)	13.2	(12.0-14.4)	9.4	(6.5-13.3)	-- ^c	-- ^c	14.2	(8.1-23.8)
Gender										
Male	24.7	(23.1-26.4)	25.2	(23.4-27.0)	20.5	(15.8-26.2)	18.9	(14.4-24.5)	35.5	(26.7-45.4)
Female	16.6	(15.3-18.0)	17.2	(15.8-18.8)	12.5	(9.4-16.3)	20.2	(14.1-28.1)	15.3	(9.3-24.3)
Education										
High school graduate or less	21.3	(19.5-23.4)	21.7	(19.6-24.0)	17.3	(12.9-22.9)	22.9	(14.7-33.9)	26.6	(18.1-37.2)
Some college or more	20.2	(19.0-21.4)	20.8	(19.5-22.2)	15.4	(12.0-19.5)	18.0	(13.9-22.8)	24.5	(17.7-32.9)
Household Income										
< \$35,000	20.8	(18.9-22.9)	21.4	(19.1-24.0)	17.9	(13.9-22.9)	25.3	(18.0-34.3)	21.8	(14.5-31.5)
\$35,000 +	20.5	(19.2-21.9)	21.3	(19.8-22.8)	11.4	(7.8-16.4)	20.2	(14.2-28.0)	23.2	(15.4-33.5)

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

^b Michigan estimates include all racial groups.

**Table 20: Mammography in the Past Two Years among Women Aged 40 and Older^a by Race-Ethnicity
2018 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	70.0	(68.1-71.9)	70.0	(67.9-72.0)	69.5	(63.5-74.9)	68.6	(56.9-78.4)	76.5	(63.0-86.1)
Education										
High school graduate or less	64.3	(60.7-67.7)	63.6	(59.7-67.3)	65.1	(54.8-74.2)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	73.6	(71.5-75.6)	73.8	(71.5-76.0)	73.0	(65.9-79.1)	69.3	(55.9-80.0)	-- ^c	-- ^c
Household Income										
< \$35,000	65.3	(61.6-68.8)	63.6	(59.5-67.6)	66.9	(57.7-75.0)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	75.4	(73.0-77.7)	76.0	(73.5-78.4)	75.0	(65.1-82.8)	59.2	(42.4-74.2)	-- ^c	-- ^c

^a Among women aged 40 years and older, the proportion who reported having a mammogram within the past two years.

^b Michigan estimates include all racial groups.

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

**Table 21: Appropriate Timed Pap Test among Women Aged 18 and Older^a by Race-Ethnicity
2018 Michigan BRFS**

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	73.2	(71.3-75.0)	71.5	(69.3-73.5)	82.1	(77.4-86.1)	70.7	(60.9-78.8)	77.8	(65.6-86.5)
Age										
18 - 49	76.0	(73.2-78.5)	75.0	(71.7-78.0)	85.3	(79.6-89.6)	66.8	(55.3-76.5)	72.9	(58.1-84.0)
50 +	69.4	(66.7-71.9)	67.4	(64.5-70.2)	75.6	(66.6-82.8)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	65.5	(61.6-69.2)	62.2	(57.6-66.6)	78.4	(69.7-85.1)	68.2	(47.6-83.5)	-- ^c	-- ^c
Some college or more	77.4	(75.4-79.3)	76.1	(73.8-78.3)	84.9	(79.3-89.2)	73.1	(62.9-81.3)	-- ^c	-- ^c
Household Income										
< \$35,000	70.7	(67.2-74.0)	65.0	(60.6-69.2)	83.9	(77.5-88.8)	69.6	(50.7-83.6)	-- ^c	-- ^c
\$35,000 +	78.0	(75.5-80.2)	77.1	(74.4-79.5)	87.2	(79.9-92.1)	76.6	(62.4-86.6)	-- ^c	-- ^c

^a Among women aged 18 years and older, the proportion who reported having a Pat test within the previous three years.

^b Michigan estimates include all racial groups.

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

**Table 22: Prostate-Specific Antigen (PSA) Test Within the Past Year among Men Aged 50 and Older^a by Race-Ethnicity
2018 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	33.5	(31.2-35.9)	34.6	(32.1-37.2)	32.2	(24.6-41.0)	23.6	(15.0-35.1)	-- ^c	-- ^c
Education										
High school graduate or less	27.4	(23.5-31.7)	27.6	(23.3-32.3)	35.7	(24.4-48.8)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	37.4	(34.6-40.3)	38.7	(35.7-41.7)	28.4	(19.2-39.9)	29.7	(18.4-44.3)	-- ^c	-- ^c
Household Income										
< \$35,000	22.1	(18.4-26.3)	35.1	(32.5-37.9)	30.7	(20.7-42.8)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	39.2	(36.1-42.3)	20.7	(16.7-25.4)	32.6	(20.7-47.3)	34.3	(19.4-53.2)	-- ^c	-- ^c

^a Among men aged 50 years and older, the proportion who reported having a PSA test within 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 23: Appropriate Colorectal Cancer Screening among Adults Aged 50 and Older^a by Race-Ethnicity
2018 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	73.5	(72.0-75.0)	74.3	(72.7-75.8)	69.2	(63.5-74.4)	67.7	(58.4-75.8)	69.5	(54.5-81.3)
Gender										
Male	73.5	(71.2-75.7)	75.0	(72.6-77.2)	65.3	(56.3-73.3)	60.4	(47.7-71.8)	-- ^c	-- ^c
Female	73.5	(71.4-75.5)	73.7	(71.5-75.8)	72.8	(65.6-79.0)	76.8	(63.7-86.3)	65.8	(43.9-82.5)
Education										
High school graduate or less	67.3	(64.4-70.0)	68.4	(65.3-71.3)	61.7	(52.6-70.0)	60.6	(40.8-77.5)	-- ^c	-- ^c
Some college or more	77.6	(75.9-79.2)	78.0	(76.2-79.7)	75.6	(68.5-81.5)	70.6	(60.5-79.1)	77.8	(62.7-87.9)
Household Income										
< \$35,000	67.1	(64.0-70.1)	67.3	(63.8-70.7)	68.8	(61.4-75.4)	54.5	(38.3-69.8)	-- ^c	-- ^c
\$35,000 +	77.2	(75.3-79.0)	77.7	(75.7-79.6)	71.2	(60.5-80.0)	72.1	(58.8-82.4)	-- ^c	-- ^c

^a Among those aged 50 years and older, the proportion who had either a fecal occult blood test within the past year, a sigmoidoscopy within the past five years, or a colonoscopy within the past ten years.

^b Michigan estimates include all racial groups.

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

**Table 24: No Dental Visit in the Past Year^a by Race-Ethnicity
2018 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	29.0	(27.9-30.2)	27.2	(25.9-28.5)	35.0	(31.4-38.8)	34.1	(29.0-39.6)	39.5	(32.7-46.7)
Age										
18 - 49	31.1	(29.3-32.9)	29.0	(27.0-31.1)	34.8	(29.9-40.1)	34.1	(28.0-40.9)	42.7	(34.5-51.2)
50 +	26.9	(25.5-28.4)	25.6	(24.0-27.2)	35.3	(30.2-40.6)	34.1	(26.0-43.2)	29.4	(19.2-42.3)
Gender										
Male	31.4	(29.6-33.1)	29.6	(27.7-31.5)	35.0	(29.5-40.9)	40.0	(33.1-47.4)	43.9	(34.5-53.8)
Female	26.6	(25.0-28.2)	24.7	(23.1-26.5)	33.7	(29.2-38.6)	29.1	(22.2-37.1)	34.7	(25.4-45.3)
Education										
High school graduate or less	38.4	(36.2-40.6)	38.3	(35.8-40.8)	38.2	(32.5-44.2)	40.7	(30.3-52.0)	38.8	(28.5-50.1)
Some college or more	22.7	(21.5-24.0)	20.2	(19.0-21.6)	30.6	(26.3-35.3)	31.3	(26.1-37.2)	39.8	(31.6-48.8)
Household Income										
< \$35,000	44.7	(42.3-47.2)	45.1	(42.3-48.0)	41.8	(36.4-47.4)	46.9	(37.5-56.5)	-- ^c	-- ^c
\$35,000 +	20.1	(18.8-21.5)	18.9	(17.5-20.3)	22.3	(17.4-28.1)	29.0	(21.9-37.2)	-- ^c	-- ^c

^a The proportion who reported that they had not visited a dentist or dental clinic for any reason in the previous year.

^b Michigan estimates include all racial groups.

**Table 25: Had Flu Vaccine in Past Year among Adults 65 Years and Older^a by Race-Ethnicity
2018 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	52.0	(49.7-54.3)	53.4	(51.0-55.9)	38.4	(30.3-47.2)	43.5	(30.5-57.6)	52.7	(28.4-75.8)
Gender										
Male	51.6	(48.0-55.1)	53.7	(49.9-57.4)	35.3	(23.2-49.5)	40.3	(22.9-60.4)	-- ^c	-- ^c
Female	52.3	(49.3-55.3)	53.3	(50.1-56.4)	41.1	(30.8-52.3)	47.4	(29.1-66.4)	-- ^c	-- ^c
Education										
High school graduate or less	45.4	(41.4-49.5)	46.7	(42.5-51.1)	36.7	(24.0-51.5)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	56.7	(54.0-59.3)	58.1	(55.3-60.8)	40.1	(30.4-50.7)	52.8	(36.1-68.9)	-- ^c	-- ^c
Household Income										
< \$35,000	47.3	(43.1-51.6)	48.5	(43.9-53.2)	42.2	(30.4-54.9)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	56.5	(53.4-59.7)	58.4	(55.2-61.6)	31.3	(20.0-45.4)	-- ^c	-- ^c	-- ^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 26: Ever Had Pneumonia Vaccine among Adults 65 Years and Older^a by Race-Ethnicity
2018 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	70.6	(68.5-72.7)	72.5	(70.2-74.6)	52.4	(43.7-60.9)	69.6	(55.0-81.1)	-- ^c	-- ^c
Gender										
Male	68.5	(65.0-71.8)	70.4	(66.9-73.7)	49.3	(35.7-63.0)	-- ^c	-- ^c	-- ^c	-- ^c
Female	72.4	(69.6-75.1)	74.2	(71.2-76.9)	55.2	(44.7-65.3)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	67.9	(63.9-71.7)	69.9	(65.7-73.8)	51.2	(37.3-64.9)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	72.7	(70.3-75.0)	74.4	(71.9-76.7)	53.9	(43.6-63.8)	65.9	(47.5-80.5)	-- ^c	-- ^c
Household Income										
< \$35,000	67.8	(63.5-71.9)	70.2	(65.4-74.5)	v	(40.1-65.0)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	74.4	(71.5-77.0)	75.5	(72.6-78.1)	58.8	(43.7-72.3)	-- ^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 27: Ever Had an HIV Test among Adults 18 – 64 Years of Age^a by Race-Ethnicity
2018 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	44.5	(43.0-46.0)	39.4	(37.7-41.1)	73.2	(69.0-77.1)	36.5	(31.0-42.2)	50.9	(43.0-58.7)
Age										
18 - 49	47.4	(45.4-49.4)	42.4	(40.1-44.6)	76.2	(71.0-80.7)	33.4	(27.4-39.9)	52.1	(43.1-61.0)
50 - 64	39.0	(36.7-41.2)	34.5	(32.1-36.9)	66.1	(58.5-72.9)	48.5	(37.1-60.0)	46.0	(31.1-61.6)
Gender										
Male	38.8	(36.7-40.9)	33.8	(31.5-36.1)	66.7	(59.9-72.9)	35.5	(28.6-43.1)	44.9	(34.9-55.3)
Female	49.9	(47.7-52.0)	44.7	(42.3-47.1)	78.5	(73.4-82.9)	38.0	(30.1-46.7)	57.8	(46.0-68.8)
Education										
High school graduate or less	44.2	(41.5-47.0)	38.0	(35.0-41.2)	70.5	(63.7-76.5)	43.3	(32.0-55.3)	48.4	(36.5-60.5)
Some college or more	44.4	(42.6-46.1)	39.9	(38.0-41.9)	74.6	(69.2-79.4)	33.6	(27.9-39.8)	53.7	(44.1-63.1)
Household Income										
< \$35,000	54.6	(51.7-57.5)	45.2	(41.6-48.8)	77.3	(71.5-82.1)	48.2	(37.7-59.0)	60.2	(47.4-71.7)
\$35,000 +	41.8	(39.9-43.7)	39.0	(37.0-41.1)	70.1	(62.5-76.7)	50.3	(39.6-60.9)	46.5	(35.8-57.6)

^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 28: Lifetime Asthma Prevalence - Adult^a by Race-Ethnicity
2018 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	15.9	(15.0-16.9)	15.1	(14.1-16.1)	21.0	(18.0-24.4)	15.0	(11.8-19.0)	16.4	(11.7-22.5)
Age										
18 - 49	18.2	(16.7-19.7)	17.8	(16.1-19.5)	22.7	(18.6-27.5)	14.7	(10.8-19.6)	15.6	(10.3-23.1)
50 +	13.5	(12.4-14.7)	12.7	(11.5-13.9)	18.5	(14.5-23.3)	16.0	(10.8-23.0)	0.0	
Gender										
Male	13.8	(12.6-15.2)	12.7	(11.4-14.1)	18.7	(14.4-23.8)	14.7	(10.4-20.4)	19.2	(12.1-29.1)
Female	18.0	(16.7-19.4)	17.3	(15.9-18.8)	23.8	(19.7-28.4)	16.1	(11.5-22.0)	13.2	(8.1-20.8)
Education										
High school graduate or less	16.0	(14.4-17.7)	14.6	(12.9-16.6)	23.4	(18.7-28.8)	14.4	(9.1-21.9)	15.0	(8.4-25.5)
Some college or more	15.8	(14.7-16.9)	15.2	(14.1-16.4)	18.9	(15.3-23.1)	15.9	(12.0-20.8)	17.8	(12.1-25.3)
Household Income										
< \$35,000	20.2	(18.3-22.2)	18.5	(16.3-20.8)	25.3	(20.7-30.5)	22.2	(15.5-30.8)	17.9	(11.2-27.3)
\$35,000 +	13.4	(12.3-14.6)	13.5	(12.3-14.7)	12.1	(8.3-17.1)	13.3	(9.0-19.3)	15.6	(8.6-26.6)

^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.

**Table 29: Current Asthma Prevalence - Adult^a by Race-Ethnicity
2018 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)	10.2	(9.4-11.1)	15.5	(12.9-18.5)	10.4	(7.7-13.9)	11.9	(7.8-17.7)
Age										
18 - 49	11.7	(10.5-13.0)	11.2	(9.8-12.7)	15.9	(12.5-20.1)	8.9	(6.0-13.1)	10.6	(6.1-17.9)
50 +	10.2	(9.3-11.3)	9.4	(8.4-10.5)	14.9	(11.3-19.5)	14.5	(9.5-21.6)	15.9	(8.6-27.6)
Gender										
Male	8.3	(7.3-9.4)	7.4	(6.4-8.6)	11.4	(8.3-15.6)	9.1	(5.8-14.2)	14.0	(7.8-24.0)
Female	13.8	(12.6-15.1)	13.0	(11.7-14.4)	19.8	(16.0-24.2)	12.8	(8.7-18.3)	9.4	(5.3-16.2)
Education										
High school graduate or less	12.0	(10.6-13.6)	11.0	(9.5-12.7)	17.6	(13.6-22.5)	10.8	(6.3-17.8)	-- ^c	-- ^c
Some college or more	10.3	(9.4-11.2)	9.7	(8.8-10.7)	13.6	(10.6-17.2)	11.1	(7.8-15.4)	12.5	(7.9-19.2)
Household Income										
< \$35,000	15.5	(13.8-17.4)	14.4	(12.4-16.6)	19.1	(15.1-24.0)	17.5	(11.5-25.8)	11.9	(6.9-19.7)
\$35,000 +	8.1	(7.3-9.1)	7.9	(7.0-8.9)	8.1	(5.2-12.6)	9.4	(5.9-14.8)	-- ^c	-- ^c

^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 30: Ever Told Chronic Obstructive Pulmonary Disease (COPD)^a by Race-Ethnicity
2018 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	(7.9-9.3)	8.5	(7.8-9.3)	9.5	(7.6-11.8)	8.0	(5.6-11.5)	6.9	(4.1-11.3)
Age										
18 - 49	3.7	(3.1-4.5)	3.6	(2.9-4.5)	3.0	(1.9-4.7)	-- ^c	-- ^c	-- ^c	-- ^c
50 +	13.7	(12.5-14.9)	12.9	(11.7-14.2)	19.0	(15.0-23.9)	15.6	(10.7-22.1)	-- ^c	-- ^c
Gender										
Male	7.7	(6.8-8.7)	7.9	(6.9-9.1)	8.5	(6.0-11.9)	5.6	(3.3-9.4)	-- ^c	-- ^c
Female	9.4	(8.5-10.5)	9.1	(8.0-10.2)	10.5	(7.9-13.8)	11.5	(7.3-17.8)	10.7	(5.9-18.6)
Education										
High school graduate or less	12.1	(10.8-13.6)	12.2	(10.7-13.9)	12.0	(8.9-16.0)	14.3	(8.4-23.2)	-- ^c	-- ^c
Some college or more	6.2	(5.6-6.9)	6.2	(5.6-7.0)	6.8	(5.0-9.1)	5.8	(3.7-9.1)	-- ^c	-- ^c
Household Income										
< \$35,000	15.6	(14.0-17.3)	16.6	(14.6-18.8)	13.4	(10.3-17.4)	16.7	(10.9-24.9)	-- ^c	-- ^c
\$35,000 +	4.7	(4.0-5.4)	4.9	(4.2-5.7)	2.7	(1.5-4.9)	-- ^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 31: Ever Told Arthritis^a by Race-Ethnicity
2018 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	31.9	(30.8-33.1)	33.1	(31.9-34.4)	30.4	(27.0-34.0)	23.6	(19.4-28.3)	23.7	(18.3-30.0)
Age										
18 - 49	14.8	(13.5-16.2)	14.9	(13.4-16.6)	14.4	(11.0-18.6)	14.9	(10.6-20.4)	14.4	(9.5-21.3)
50 +	49.8	(48.2-51.4)	49.3	(47.6-51.0)	53.7	(48.2-59.1)	47.9	(39.1-56.9)	53.6	(40.3-66.4)
Gender										
Male	27.6	(26.0-29.2)	28.6	(26.9-30.4)	27.9	(23.0-33.4)	19.1	(14.4-24.9)	18.2	(12.2-26.1)
Female	36.2	(34.6-37.9)	37.6	(35.8-39.4)	33.4	(28.9-38.2)	28.5	(22.0-35.9)	29.3	(20.9-39.3)
Education										
High school graduate or less	36.3	(34.2-38.4)	37.5	(35.1-39.9)	36.1	(30.5-42.1)	29.6	(21.1-39.8)	24.7	(16.7-35.0)
Some college or more	29.2	(27.9-30.5)	30.6	(29.2-32.0)	25.3	(21.6-29.5)	21.1	(16.7-26.2)	22.4	(16.2-30.0)
Household Income										
< \$35,000	41.4	(39.1-43.8)	43.7	(41.0-46.5)	37.9	(32.6-43.4)	35.7	(27.3-45.1)	32.9	(23.3-44.2)
\$35,000 +	26.9	(25.5-28.3)	28.6	(27.1-30.1)	18.2	(13.9-23.5)	18.5	(13.4-24.9)	17.7	(11.4-26.4)

^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 32: Ever Told Heart Attack^a by Race-Ethnicity
2018 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	(4.7-5.8)	5.2	(4.7-5.9)	5.4	(3.9-7.4)	5.3	(3.3-8.6)	3.5	(2.0-6.3)
Age										
18 - 49	1.3	(0.9-1.8)	1.3	(0.8-1.9)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	9.3	(8.4-10.3)	8.8	(7.8-9.8)	12.0	(8.6-16.5)	13.6	(8.3-21.6)	-- ^c	-- ^c
Gender										
Male	6.4	(5.6-7.3)	6.6	(5.7-7.6)	6.2	(3.8-9.8)	4.8	(2.7-8.5)	-- ^c	-- ^c
Female	4.1	(3.5-4.8)	4.0	(3.3-4.8)	4.6	(3.0-6.9)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	6.8	(5.8-8.0)	6.9	(5.7-8.2)	6.7	(4.3-10.3)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	4.2	(3.7-4.7)	4.3	(3.7-4.9)	4.1	(2.6-6.4)	4.0	(2.3-6.9)	-- ^c	-- ^c
Household Income										
< \$35,000	8.5	(7.2-9.9)	8.7	(7.2-10.5)	8.1	(5.6-11.8)	10.9	(5.9-19.2)	-- ^c	-- ^c
\$35,000 +	3.8	(3.3-4.5)	4.0	(3.4-4.8)	-- ^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 33: Ever Told Angina or Coronary Heart Disease^a by Race-Ethnicity
2018 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	5.0	(4.5-5.5)	5.2	(4.7-5.8)	4.6	(3.2-6.6)	3.9	(2.4-6.5)	-- ^c	-- ^c
Age										
18 - 49	1.0	(0.7-1.5)	0.9	(0.6-1.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	9.3	(8.4-10.3)	9.1	(8.1-10.1)	10.4	(7.1-14.9)	11.6	(6.9-18.9)	-- ^c	-- ^c
Gender										
Male	5.8	(5.0-6.7)	6.1	(5.3-7.1)	5.2	(3.0-8.6)	-- ^c	-- ^c	-- ^c	-- ^c
Female	4.2	(3.6-4.9)	4.3	(3.7-5.1)	3.9	(2.4-6.3)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	5.5	(4.6-6.6)	5.7	(4.7-6.9)	5.5	(3.3-9.0)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	4.6	(4.1-5.2)	4.9	(4.3-5.6)	3.7	(2.2-6.1)	4.6	(2.6-8.1)	-- ^c	-- ^c
Household Income										
< \$35,000	6.9	(5.8-8.1)	7.5	(6.2-9.1)	5.6	(3.5-9.0)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	4.1	(3.6-4.8)	4.3	(3.7-5.0)	-- ^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 34: Ever Told Stroke^a by Race-Ethnicity
2018 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	3.3	(2.9-3.7)	3.0	(2.6-3.5)	5.1	(3.7-6.9)	-- ^c	-- ^c	-- ^c	-- ^c
Age										
18 - 49	1.4	(1.0-2.0)	0.9	(0.6-1.4)	3.0	(1.7-5.2)	-- ^c	-- ^c	-- ^c	-- ^c
50 +	5.2	(4.5-6.0)	4.9	(4.2-5.6)	8.1	(5.6-11.6)	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	3.1	(2.6-3.7)	3.0	(2.6-3.5)	5.5	(3.5-8.6)	-- ^c	-- ^c	-- ^c	-- ^c
Female	3.6	(3.0-4.2)	2.9	(2.3-3.5)	4.8	(3.2-7.2)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	4.6	(3.8-5.6)	4.0	(3.2-5.0)	6.7	(4.4-10.1)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	2.5	(2.1-3.0)	2.4	(2.0-2.9)	3.7	(2.4-5.7)	-- ^c	-- ^c	-- ^c	-- ^c
Household Income										
< \$35,000	5.8	(4.8-6.9)	5.6	(4.5-6.9)	7.3	(5.1-10.3)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	1.8	(1.4-2.2)	1.8	(1.4-2.3)	-- ^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 35: Ever Told Any Cardiovascular Disease^a by Race-Ethnicity
2018 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	(9.0-10.4)	9.8	(9.0-10.6)	10.4	(8.4-12.9)	8.3	(5.8-11.8)	7.9	(4.8-12.7)
Age										
18 - 49	3.0	(2.4-3.8)	2.6	(1.9-3.4)	3.7	(2.3-5.9)	-- ^c	-- ^c	-- ^c	-- ^c
50 +	16.8	(15.6-18.1)	16.3	(15.0-17.6)	20.5	(16.3-25.5)	20.2	(13.9-28.4)	15.1	(8.7-24.9)
Gender										
Male	10.9	(9.9-12.0)	11.1	(10.0-12.4)	11.4	(8.3-15.5)	7.3	(4.6-11.3)	-- ^c	-- ^c
Female	8.7	(7.8-9.6)	8.5	(7.6-9.6)	9.6	(7.2-12.7)	9.6	(5.7-15.8)	-- ^c	-- ^c
Education										
High school graduate or less	12.3	(10.9-13.8)	12.1	(10.6-13.8)	13.3	(9.9-17.7)	-- ^c	-- ^c	12.1	(6.7-21.1)
Some college or more	8.1	(7.4-8.9)	8.4	(7.7-9.3)	7.9	(5.8-10.7)	7.2	(4.7-10.7)	-- ^c	-- ^c
Household Income										
< \$35,000	15.1	(13.5-16.9)	15.9	(13.9-18.0)	14.6	(11.2-18.8)	15.9	(9.8-24.9)	-- ^c	-- ^c
\$35,000 +	7.1	(6.3-7.9)	7.4	(6.6-8.3)	5.3	(3.2-8.8)	4.0	(2.4-6.8)	-- ^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%.

**Table 36: Ever Told Skin Cancer^a by Race-Ethnicity
2018 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	6.4	(5.9-7.0)	8.0	(7.4-8.7)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Age										
18 - 49	1.1	(0.9-1.5)	1.5	(1.1-2.0)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	12.0	(11.0-13.1)	13.9	(12.7-15.1)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	6.4	(5.9-7.0)	7.4	(6.5-8.5)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Female	6.0	(5.3-6.8)	8.6	(7.7-9.5)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	5.5	(4.6-6.5)	7.1	(6.0-8.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	7.1	(6.4-7.7)	8.6	(7.8-9.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
Household Income										
< \$35,000	5.4	(4.5-6.4)	7.4	(6.2-8.9)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	6.9	(6.2-7.7)	8.2	(7.4-9.1)	-- ^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 37: Ever Told Any Other Type of Cancer^a by Race-Ethnicity
2018 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	7.7	(7.1-8.3)	8.4	(7.7-9.1)	5.8	(4.3-7.8)	4.0	(2.6-6.1)	4.2	(2.4-7.0)
Age										
18 - 49	2.0	(1.5-2.6)	2.2	(1.6-2.9)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	13.6	(12.6-14.7)	13.9	(12.8-15.1)	11.7	(8.5-15.9)	12.5	(8.2-18.6)	12.0	(6.5-21.1)
Gender										
Male	6.7	(5.9-7.6)	6.9	(6.1-7.9)	8.0	(5.4-11.7)	-- ^c	-- ^c	-- ^c	-- ^c
Female	8.7	(7.9-9.6)	10.0	(9.0-11.1)	3.8	(2.5-5.9)	5.4	(3.1-9.1)	-- ^c	-- ^c
Education										
High school graduate or less	7.8	(6.8-9.0)	8.7	(7.5-10.0)	6.1	(3.8-9.7)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	7.7	(7.0-8.4)	8.4	(7.6-9.2)	5.5	(3.8-7.9)	4.6	(2.8-7.5)	-- ^c	-- ^c
Household Income										
< \$35,000	8.9	(7.8-10.3)	9.8	(8.4-11.4)	6.7	(4.5-9.9)	8.9	(4.9-15.6)	-- ^c	-- ^c
\$35,000 +	7.1	(6.3-7.9)	7.8	(7.0-8.7)	-- ^c	-- ^c	-- ^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 38: Ever Told Cancer^a by Race-Ethnicity
2018 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	12.8	(12.1-13.6)	14.8	(13.9-15.7)	6.1	(4.6-8.1)	5.5	(3.7-8.0)	5.0	(3.1-8.0)
Age										
18 - 49	3.1	(2.5-3.8)	3.6	(2.9-4.4)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	23.0	(21.7-24.3)	24.8	(23.4-26.3)	12.2	(8.9-16.3)	17.9	(12.3-25.4)	13.3	(7.5-22.5)
Gender										
Male	11.5	(10.5-12.5)	12.9	(11.7-14.1)	8.3	(5.7-12.1)	3.6	(2.1-6.0)	-- ^c	-- ^c
Female	14.2	(13.1-15.3)	16.9	(15.6-18.2)	4.1	(2.7-6.2)	6.9	(4.1-11.4)	-- ^c	-- ^c
Education										
High school graduate or less	12.4	(11.1-13.8)	14.6	(13.1-16.4)	6.4	(4.0-10.0)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	13.2	(12.3-14.1)	15.1	(14.1-16.1)	5.8	(4.1-8.3)	5.9	(3.7-9.4)	-- ^c	-- ^c
Household Income										
< \$35,000	13.2	(11.8-14.8)	15.8	(14.0-17.8)	7.3	(5.0-10.5)	4.5	(2.8-7.1)	9.3	(5.1-16.4)
\$35,000 +	12.5	(11.6-13.5)	14.3	(13.2-15.5)	4.7	(2.6-8.2)	10.0	(5.8-16.7)	-- ^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 39: Ever Told Diabetes^a by Race-Ethnicity
2018 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	11.7	(11.0-12.6)	11.3	(10.4-12.2)	15.2	(12.7-18.1)	10.2	(7.4-13.9)	11.0	(7.5-15.9)
Age										
18 - 49	4.0	(3.3-4.9)	3.5	(2.7-4.4)	5.5	(3.7-8.3)	-- ^c	-- ^c	6.5	(3.6-11.6)
50 +	19.8	(18.5-21.2)	18.2	(16.9-19.7)	29.3	(24.4-34.7)	26.8	(19.6-35.4)	25.5	(15.7-38.6)
Gender										
Male	12.4	(11.3-13.7)	11.9	(10.6-13.2)	16.2	(12.4-21.0)	10.5	(7.0-15.5)	13.7	(8.5-21.3)
Female	11.1	(10.1-12.2)	10.7	(9.6-12.0)	14.6	(11.6-18.3)	9.1	(5.4-15.0)	-- ^c	-- ^c
Education										
High school graduate or less	14.7	(13.2-16.3)	14.3	(12.6-16.2)	17.9	(13.9-22.8)	11.9	(6.6-20.4)	12.7	(7.5-20.9)
Some college or more	9.8	(9.0-10.6)	9.5	(8.6-10.4)	12.5	(9.8-15.7)	8.8	(6.0-12.7)	9.1	(5.2-15.5)
Household Income										
< \$35,000	15.7	(14.1-17.6)	15.9	(13.9-18.1)	16.9	(13.2-21.3)	16.6	(10.8-24.7)	-- ^c	-- ^c
\$35,000 +	9.3	(8.4-10.3)	8.9	(7.9-9.9)	14.6	(10.6-19.9)	-- ^c	-- ^c	10.7	(5.9-18.7)

^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 40: Ever Told Kidney Disease^a by Race-Ethnicity
2018 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	3.4	(3.0-3.9)	3.4	(2.9-3.9)	5.1	(3.7-7.1)	-- ^c	-- ^c	-- ^c	-- ^c
Age										
18 - 49	1.1	(0.8-1.6)	1.0	(0.7-1.6)	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c	-- ^c
50 +	5.8	(5.1-6.7)	5.5	(4.7-6.4)	5.1	(3.7-7.1)	-- ^c	-- ^c	-- ^c	-- ^c
Gender										
Male	3.4	(2.8-4.1)	3.1	(2.6-3.8)	6.7	(4.2-10.5)	-- ^c	-- ^c	-- ^c	-- ^c
Female	3.5	(3.0-4.2)	3.8	(3.1-4.6)	3.5	(2.3-5.4)	-- ^c	-- ^c	-- ^c	-- ^c
Education										
High school graduate or less	3.7	(2.9-4.6)	3.6	(2.8-4.6)	5.5	(3.3-9.1)	-- ^c	-- ^c	-- ^c	-- ^c
Some college or more	3.4	(2.9-3.9)	3.4	(2.9-4.0)	4.6	(3.0-6.9)	-- ^c	-- ^c	-- ^c	-- ^c
Household Income										
< \$35,000	5.0	(4.1-6.0)	4.8	(3.8-6.0)	6.6	(4.5-9.7)	-- ^c	-- ^c	-- ^c	-- ^c
\$35,000 +	2.8	(2.3-3.4)	3.0	(2.5-3.6)	-- ^c	-- ^c	-- ^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%.

2018 Michigan BRFSS Estimates by Race-Ethnicity
May 2020

**Table 41: Ever Told Depression^a by Race-Ethnicity
2018 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	23.3	(22.3-24.4)	23.4	(22.3-24.7)	20.7	(17.8-23.9)	23.1	(18.9-27.9)	29.3	(23.3-36.2)
Age										
18 - 49	25.5	(23.9-27.2)	27.4	(25.4-29.5)	16.7	(13.1-21.0)	22.8	(17.7-28.9)	28.1	(21.2-36.3)
50 +	21.0	(19.7-22.4)	19.9	(18.6-21.3)	26.5	(22.0-31.6)	23.8	(17.4-31.6)	33.2	(22.0-46.7)
Gender										
Male	17.5	(16.1-18.9)	17.0	(15.5-18.6)	18.3	(14.2-23.2)	16.9	(12.3-22.7)	24.1	(16.9-33.2)
Female	28.6	(27.1-30.2)	29.3	(27.6-31.1)	23.0	(19.1-27.4)	28.8	(22.2-36.3)	34.5	(25.3-45.0)
Education										
High school graduate or less	26.3	(24.3-28.3)	26.5	(24.3-28.8)	23.1	(18.5-28.3)	22.8	(15.3-32.6)	35.1	(25.5-46.0)
Some college or more	21.2	(20.0-22.4)	21.4	(20.1-22.7)	18.7	(15.2-22.8)	22.9	(18.3-28.2)	22.9	(16.3-31.2)
Household Income										
< \$35,000	34.0	(31.8-36.3)	35.2	(32.6-38.0)	30.5	(25.7-35.7)	31.8	(23.8-41.1)	35.4	(25.2-47.1)
\$35,000 +	17.7	(16.5-19.1)	18.4	(17.0-19.9)	10.3	(7.0-15.0)	14.8	(10.3-20.8)	22.9	(15.4-32.6)

^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.

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