# Prevalence Estimates for Risk Factors and Health Indicators

## State of Michigan

## Selected Tables

## Michigan Behavioral Risk Factor Survey

## 2022

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

*Prepared by: Yan Tian*
*December 2023*

**Introduction** ..... 3

**Health Status Tables**

Table 1: General Health Status ..... 4
Table 2: Health Status on at Least 14 Days in the Past Month ..... 5
Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations ..... 6
Table 4: Disability ..... 7
Table 5: Weight Status ..... 8
Table 6: Health Care Coverage ..... 9
Table 7: Health Care Access ..... 10

**Risk Behaviors Tables**

Table 8: No Leisure Time Physical Activity ..... 11
Table 9: Cigarette Smoking ..... 12
Table 10: Current Smokers who Attempted to Quit ..... 13
Table 11: E-Cigarettes ..... 14
Table 12: Smokeless Tobacco ..... 15
Table 13: Hookah Use ..... 16
Table 14: Alcohol Consumption ..... 17
Table 15: Mean Number of Binge Drinking Occasions During the Past Month Among Binge Drinkers ..... 18

**Clinical Preventative Practices**

Table 16: No Routine Checkup in Past Year ..... 19
Table 17: Mammography Indicators Among Women Aged 40 Years and Older ..... 20
Table 18: Cervical Cancer Screening Among Women Aged 18 Years and Older ..... 21
Table 19: Colorectal Cancer Screening (Blood Stool Test) Among Adults 50 Years and Older ..... 22
Table 20: Colorectal Cancer Screening (Sigmoidoscopy/Colonoscopy) Among Adults 50 Years and Older ..... 23
Table 21: Appropriate Colorectal Cancer Screening Among Adults 50 Years and Older ..... 24
Table 22: Oral Health ..... 25
Table 23: Immunizations Among Adults Aged 65 Years and Older ..... 26
Table 24: HIV Testing Among Adults Aged 18-64 Years ..... 27

**Chronic Conditions**

Table 25: Asthma Among Adults ..... 28
Table 26: Asthma Among Children ..... 29
Table 27: Chronic Obstructive Pulmonary Disease (COPD) ..... 30
Table 28: Arthritis ..... 31
Table 29: Cardiovascular Disease ..... 32
Table 30: Cancer ..... 33
Table 31: Diabetes ..... 34
Table 32: Kidney Disease ..... 35
Table 33: Depression ..... 36

## Introduction

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

In 2022, the total sample size of interviews for the core survey was 10,058 (land line = 2,708; cell phone = 7,350). Due to variability in response rates to individual questions and differences in specific sub-populations of interest for particular questions, not all estimates are based on a total sample size of 10,058. As a result, item-by-item sample sizes and population descriptions are included within each table. Furthermore, only comparisons between estimates with non-overlapping 95% confidence intervals should be considered significantly different.

For the 2022 Michigan BRFS, the sample of land line telephone numbers that were utilized for data collection was selected using a list-assisted, random-digit-dialed methodology with a disproportionate stratification based on phone bank density, and whether or not the phone numbers were directory listed. The sample of cell phone numbers used within the 2022 Michigan BRFS data collection process was randomly selected from dedicated cellular telephone banks sorted on the basis of area code and exchange within the State of Michigan.

Iterative proportional fitting or raking was the weighting methodology used to make the 2022 Michigan BRFS data representative of the current Michigan adult population. Estimates based on this methodology were weighted to adjust for the probabilities of selection and a raking adjustment factor that adjusted for the distribution of Michigan adults by telephone source (land line vs. cell phone), detailed race/ethnicity, education level, marital status, age by gender, gender by race/ethnicity, age by race/ethnicity, and renter/owner status.

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

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

Due to the BRFSS methodology changes that took place in 2011, the estimates provided within the following tables should only be compared to Michigan BRFSS estimates from 2011-2021 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 Yan Tian at tiany@michigan.gov.

| **Table 1: Health Status**<br>**2022 Michigan BRFS** | | |
|---|---|---|
| | **General Health, Fair or Poor[a]** | |
| | **%** | **95% Confidence Interval** |
| **Total** | **17.1** | **(16.1-18.1)** |
| **Age** | | |
| 18 – 24 | 12.0 | (9.2-15.5) |
| 25 – 34 | 12.9 | (10.5-15.7) |
| 35 – 44 | 13.8 | (11.4-16.6) |
| 45 – 54 | 17.6 | (15.3-20.1) |
| 55 – 64 | 20.5 | (18.3-23.0) |
| 65 – 74 | 20.5 | (18.4-22.7) |
| 75 + | 23.5 | (20.9-26.3) |
| **Gender** | | |
| Male | 15.1 | (13.9-16.4) |
| Female | 18.9 | (17.6-20.4) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 15.7 | (14.7-16.8) |
| Black non-Hispanic | 23.7 | (20.6-27.1) |
| Other non-Hispanic | 14.5 | (10.9-19.0) |
| Hispanic | 21.6 | (16.1-28.2) |
| **Education** | | |
| Less than high school | 32.7 | (27.4-38.4) |
| High school graduate | 20.1 | (18.4-22.1) |
| Some college | 17.3 | (15.7-18.9) |
| College graduate | 8.6 | (7.7-9.6) |
| **Household Income** | | |
| < $20,000 | 40.6 | (36.1-45.4) |
| $20,000 - $34,999 | 25.8 | (22.9-28.9) |
| $35,000 - $49,999 | 18.5 | (15.8-21.6) |
| $50,000 - $74,999 | 14.8 | (12.4-17.6) |
| $75,000 + | 7.0 | (6.0-8.1) |

[a] Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 10,028)

## Table 2: Health Status on at Least 14 Days in the Past Month
**2022 Michigan BRFS**

| | Poor Physical Health[a] | | Poor Mental Health[b] | | Activity Limitation[c] | |
|---|---|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **12.5** | **(11.7-13.3)** | **16.7** | **(15.6-17.7)** | **10.3** | **(9.5-11.1)** |
| **Age** | | | | | | |
| 18 – 24 | 7.3 | (4.9-10.7) | 28.7 | (24.2-33.6) | 11.0 | (8.1-14.8) |
| 25 – 34 | 8.1 | (6.2-10.5) | 21.6 | (18.5-25.0) | 9.7 | (7.7-12.2) |
| 35 – 44 | 9.9 | (8.0-12.1) | 18.8 | (16.2-21.6) | 9.1 | (7.3-11.4) |
| 45 – 54 | 15.8 | (13.6-18.3) | 16.1 | (13.9-18.5) | 11.4 | (9.5-13.7) |
| 55 – 64 | 15.9 | (13.9-18.0) | 14.2 | (12.3-16.3) | 11.0 | (9.4-12.9) |
| 65 – 74 | 14.8 | (13.0-16.8) | 9.6 | (8.1-11.3) | 10.6 | (8.9-12.5) |
| 75 + | 16.7 | (14.4-19.3) | 6.6 | (5.1-8.4) | 9.3 | (7.6-11.4) |
| **Gender** | | | | | | |
| Male | 10.6 | (9.5-11.8) | 13.5 | (12.1-15.0) | 8.5 | (7.4-9.6) |
| Female | 14.3 | (13.1-15.5) | 19.7 | (18.2-21.3) | 12.0 | (10.9-13.2) |
| **Race/Ethnicity** | | | | | | |
| White non-Hispanic | 12.1 | (11.2-13.1) | 16.1 | (14.9-17.3) | 9.9 | (9.0-10.8) |
| Black non-Hispanic | 15.3 | (12.7-18.4) | 18.5 | (15.6-21.8) | 11.3 | (9.1-14.0) |
| Other non-Hispanic | 8.9 | (6.6-12.1) | 15.1 | (11.6-19.4) | 9.3 | (6.6-12.9) |
| Hispanic | 12.8 | (9.0-18.0) | 24.1 | (18.2-31.2) | 13.1 | (8.8-19.1) |
| **Education** | | | | | | |
| Less than high school | 20.2 | (15.8-25.4) | 24.3 | (19.4-30.0) | 16.7 | (12.7-21.6) |
| High school graduate | 13.5 | (12.0-15.2) | 18.3 | (16.4-20.3) | 11.5 | (10.0-13.2) |
| Some college | 13.0 | (11.6-14.5) | 18.4 | (16.6-20.4) | 11.4 | (10.0-12.9) |
| College graduate | 8.3 | (7.4-9.3) | 10.5 | (9.4-11.7) | 5.6 | (4.9-6.5) |
| **Household Income** | | | | | | |
| < $20,000 | 31.9 | (27.5-36.6) | 30.2 | (26.0-34.8) | 27.7 | (23.5-32.4) |
| $20,000 - $34,999 | 19.0 | (16.5-21.9) | 22.2 | (19.5-25.3) | 16.9 | (14.4-19.8) |
| $35,000 - $49,999 | 10.9 | (8.8-13.3) | 18.1 | (14.9-21.9) | 9.3 | (7.4-11.6) |
| $50,000 - $74,999 | 10.9 | (8.9-13.2) | 17.1 | (14.2-20.4) | 6.7 | (5.2-8.6) |
| $75,000 + | 6.4 | (5.5-7.5) | 10.4 | (9.0-11.9) | 4.6 | (3.8-5.6) |

[a] Among all adults, the proportion who reported 14 or more days of poor physical health, which includes physical illness and injury, during the past 30 days. (N =9,838)
[b] Among all adults, the proportion who reported 14 or more days of poor mental health, which includes stress, depression, and problems with emotions, during the past 30 days. (N =9,901)
[c] Among all adults, the proportion who reported 14 or more days in the past 30 days in which either poor physical health or poor mental health kept respondents from doing their usual activities, such as self-care, work, and recreation. (N =9,943)

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

**2022 Michigan BRFS**

| | Poor Physical Health[a] | | Poor Mental Health[b] | | Activity Limitation[c] | |
|---|---|---|---|---|---|---|
| | Mean # of Days | 95% Confidence Interval | Mean # of Days | 95% Confidence Interval | Mean # of Days | 95% Confidence Interval |
| **Total** | **4.1** | **(3.9-4.3)** | **5.2** | **(5.0-5.5)** | **3.2** | **(3.0-3.4)** |
| **Age** | | | | | | |
| 18 - 24 | 3.0 | (2.3-3.7) | 8.8 | (7.7-9.9) | 3.5 | (2.9-4.2) |
| 25 - 34 | 3.0 | (2.5-3.4) | 6.7 | (6.0-7.5) | 3.1 | (2.6-3.6) |
| 35 - 44 | 3.4 | (2.9-3.9) | 6.1 | (5.4-6.7) | 2.9 | (2.5-3.4) |
| 45 - 54 | 4.9 | (4.3-5.5) | 4.9 | (4.3-5.5) | 3.5 | (2.9-4.0) |
| 55 - 64 | 5.1 | (4.6-5.7) | 4.5 | (4.0-4.9) | 3.6 | (3.1-4.1) |
| 65 - 74 | 4.7 | (4.2-5.2) | 3.1 | (2.7-3.5) | 3.1 | (2.7-3.6) |
| 75 + | 5.2 | (4.6-5.8) | 2.2 | (1.9-2.6) | 2.6 | (2.2-3.0) |
| **Gender** | | | | | | |
| Male | 3.6 | (3.3-3.9) | 4.3 | (4.0-4.7) | 2.6 | (2.4-2.9) |
| Female | 4.7 | (4.4-4.9) | 6.1 | (5.7-6.4) | 3.7 | (3.5-4.0) |
| **Race/Ethnicity** | | | | | | |
| White non-Hispanic | 4.1 | (3.9-4.3) | 5.1 | (4.8-5.4) | 3.1 | (2.9-3.3) |
| Black non-Hispanic | 4.6 | (4.0-5.3) | 5.5 | (4.8-6.2) | 3.6 | (3.0-4.2) |
| Other non-Hispanic | 2.9 | (2.2-3.7) | 5.0 | (4.1-5.9) | 3.0 | (2.3-3.8) |
| Hispanic | 4.2 | (3.1-5.3) | 7.2 | (5.6-8.7) | 4.1 | (2.9-5.2) |
| **Education** | | | | | | |
| Less than high school | 6.0 | (4.9-7.1) | 6.9 | (5.6-8.1) | 4.9 | (3.8-6.0) |
| High school graduate | 4.5 | (4.0-4.9) | 5.5 | (5.1-6.0) | 3.4 | (3.1-3.8) |
| Some college | 4.4 | (4.0-4.7) | 5.7 | (5.3-6.2) | 3.5 | (3.2-3.9) |
| College graduate | 2.9 | (2.7-3.1) | 3.8 | (3.5-4.1) | 2.0 | (1.8-2.2) |
| **Household Income** | | | | | | |
| < $20,000 | 9.2 | (8.2-10.3) | 8.6 | (7.5-9.6) | 7.8 | (6.7-8.8) |
| $20,000 - $34,999 | 5.8 | (5.2-6.5) | 6.5 | (5.8-7.2) | 4.9 | (4.2-5.5) |
| $35,000 - $49,999 | 3.8 | (3.3-4.4) | 5.5 | (4.7-6.3) | 3.0 | (2.5-3.5) |
| $50,000 - $74,999 | 3.7 | (3.2-4.3) | 5.4 | (4.6-6.1) | 2.3 | (1.9-2.7) |
| $75,000 + | 2.4 | (2.2-2.7) | 3.7 | (3.3-4.1) | 1.7 | (1.5-2.0) |

[a] Among all adults, the mean number of days during the past 30 days in which physical health, including illness and injury, was not good. (N = 9,838)

[b] Among all adults, the mean number of days during the past 30 days in which mental health, including stress, depression, and problems with emotions, was not good. (N = 9,901)

[c] Among all adults, the mean number of days during the past 30 days in which poor physical health or poor mental health kept the respondent from doing usual activities, such as self-care, work, or recreation. (N = 9,943)

## Table 4: Disability
**2022 Michigan BRFS**

| | Total Disability[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **30.1** | **(28.9-31.4)** |
| **Age** | | |
| 18 - 24 | 28.6 | (24.0-33.8) |
| 25 - 34 | 22.3 | (19.1-25.8) |
| 35 - 44 | 22.4 | (19.4-25.8) |
| 45 - 54 | 26.3 | (23.4-29.4) |
| 55 - 64 | 33.3 | (30.6-36.0) |
| 65 - 74 | 34.0 | (31.6-36.6) |
| 75 + | 51.7 | (48.5-54.8) |
| **Gender** | | |
| Male | 27.8 | (26.1-29.6) |
| Female | 32.3 | (30.6-34.1) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 29.1 | (27.8-30.5) |
| Black non-Hispanic | 35.5 | (31.6-39.6) |
| Other non-Hispanic | 29.1 | (23.8-35.1) |
| Hispanic | 31.3 | (24.4-39.2) |
| **Education** | | |
| Less than high school | 49.4 | (43.1-55.8) |
| High school graduate | 35.4 | (33.0-37.8) |
| Some college | 32.0 | (29.9-34.2) |
| College graduate | 16.4 | (15.1-17.7) |
| **Household Income** | | |
| < $20,000 | 58.5 | (53.8-63.0) |
| $20,000 - $34,999 | 44.1 | (40.6-47.6) |
| $35,000 - $49,999 | 35.9 | (32.2-39.8) |
| $50,000 - $74,999 | 26.3 | (23.2-29.7) |
| $75,000 + | 14.2 | (12.7-15.8) |

[a] Among all adults, the proportion who reported having serious difficulty hearing, visual impairment, difficulty concentrating, remembering, or making decisions, difficulty walking or climbing stairs, difficulty dressing or bating, or difficulty doing errands alone. (N = 9,328)

## Table 5: Weight Status
**2022 Michigan BRFS**

| | Obese[a] | | Overweight[b] | | Healthy Weight[c] | | Underweight[d] | |
|---|---|---|---|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **34.5** | **(33.2-35.8)** | **32.8** | **(31.6-34.1)** | **30.4** | **(29.1-31.7)** | **2.3** | **(1.8-2.9)** |
| **Age** | | | | | | | | |
| 18 - 24 | 19.7 | (15.9-24.1) | 23.1 | (19.0-27.8) | 49.8 | (44.5-55.1) | 7.4 | (4.9-11.1) |
| 25 - 34 | 33.2 | (29.4-37.3) | 29.8 | (26.2-33.6) | 34.3 | (30.6-38.1) | 2.7 | (1.6-4.6) |
| 35 - 44 | 38.7 | (35.2-42.4) | 32.5 | (29.3-36.0) | 28.1 | (24.9-31.5) | --[e] | --[e] |
| 45 - 54 | 40.9 | (37.6-44.4) | 36.4 | (33.1-39.8) | 21.0 | (18.4-23.8) | --[e] | --[e] |
| 55 - 64 | 39.2 | (36.4-42.0) | 34.9 | (32.3-37.7) | 24.1 | (21.8-26.7) | 1.7 | (1.0-2.9) |
| 65 - 74 | 37.1 | (34.5-39.7) | 35.6 | (33.1-38.2) | 26.3 | (24.1-28.7) | 1.0 | (0.6-1.6) |
| 75 + | 27.9 | (25.1-30.9) | 36.7 | (33.6-39.9) | 33.4 | (30.4-36.6) | 2.0 | (1.3-3.1) |
| **Gender** | | | | | | | | |
| Male | 33.4 | (31.6-35.2) | 37.4 | (35.5-39.3) | 27.1 | (25.4-29.0) | 2.1 | (1.5-2.9) |
| Female | 35.6 | (33.8-37.5) | 28.1 | (26.4-29.8) | 33.8 | (32.0-35.7) | 2.5 | (1.8-3.4) |
| **Race/Ethnicity** | | | | | | | | |
| White non-Hispanic | 34.4 | (33.0-35.9) | 33.6 | (32.2-35.0) | 30.2 | (28.8-31.6) | 1.8 | (1.4-2.3) |
| Black non-Hispanic | 42.7 | (38.5-47.1) | 29.6 | (25.8-33.6) | 25.4 | (21.8-29.3) | 2.4 | (1.3-4.2) |
| Other non-Hispanic | 21.6 | (17.1-26.8) | 31.4 | (25.9-37.4) | 41.1 | (35.2-47.3) | --[e] | --[e] |
| Hispanic | 37.5 | (30.2-45.4) | 32.3 | (25.4-40.0) | 26.0 | (19.6-33.5) | --[e] | --[e] |
| **Education** | | | | | | | | |
| < High school | 36.5 | (30.4-43.0) | 25.4 | (20.2-31.3) | 34.2 | (28.3-40.6) | --[e] | --[e] |
| High school graduate | 35.6 | (33.2-38.1) | 32.0 | (29.6-34.5) | 29.2 | (26.9-31.7) | 3.1 | (2.1-4.6) |
| Some college | 37.0 | (34.7-39.3) | 33.2 | (31.0-35.5) | 28.0 | (25.8-30.4) | 1.8 | (1.2-2.7) |
| College graduate | 29.7 | (28.0-31.5) | 35.5 | (33.6-37.3) | 33.3 | (31.5-35.1) | 1.5 | (1.1-2.1) |
| **Household Income** | | | | | | | | |
| < $20,000 | 40.8 | (36.1-45.6) | 24.0 | (20.3-28.2) | 30.4 | (26.3-35.0) | 4.8 | (2.7-8.4) |
| $20,000 - $34,999 | 37.7 | (34.3-41.3) | 30.4 | (27.3-33.7) | 28.2 | (25.2-31.5) | 3.7 | (2.1-6.4) |
| $35,000 - $49,999 | 35.1 | (31.3-39.1) | 32.7 | (29.1-36.6) | 30.4 | (26.6-34.4) | 1.8 | (1.0-3.1) |
| $50,000 - $74,999 | 36.8 | (33.4-40.3) | 34.0 | (30.7-37.5) | 28.4 | (25.0-32.2) | --[e] | --[e] |
| $75,000 + | 31.5 | (29.4-33.7) | 37.1 | (34.9-39.3) | 29.7 | (27.6-32.0) | 1.7 | (1.0-2.7) |

Note: BMI, body mass index, is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)$^2$]. Weight and height were self-reported. Pregnant women were excluded. (N =8,750)

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

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

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

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

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

## Table 6: Health Care Coverage
**2022 Michigan BRFS**

| | No Health Care Coverage[a] (Among 18 - 64 year olds) | |
|---|---|---|
| | % | 95% Confidence Interval |
| **Total** | **5.6** | **(4.8-6.5)** |
| **Age** | | |
| 18 - 24 | 7.9 | (5.0-12.2) |
| 25 - 34 | 6.7 | (5.1-8.9) |
| 35 - 44 | 5.7 | (4.2-7.7) |
| 45 - 54 | 4.5 | (3.3-6.1) |
| 55 - 64 | 3.8 | (2.7-5.4) |
| **Gender** | | |
| Male | 7.7 | (6.4-9.2) |
| Female | 3.4 | (2.7-4.5) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 4.8 | (3.9-5.8) |
| Black non-Hispanic | 5.0 | (3.3-7.4) |
| Other non-Hispanic | 5.1 | (2.8-8.9) |
| Hispanic | 16.9 | (11.5-24.2) |
| **Education** | | |
| Less than high school | 16.5 | (11.5-23.1) |
| High school graduate | 7.7 | (6.2-9.6) |
| Some college | 3.9 | (3.0-5.2) |
| College graduate | 1.8 | (1.3-2.5) |
| **Household Income** | | |
| < $20,000 | 9.2 | (6.5-12.9) |
| $20,000 - $34,999 | 8.5 | (6.3-11.3) |
| $35,000 - $49,999 | 9.1 | (5.7-14.2) |
| $50,000 - $74,999 | 5.3 | (3.5-8.0) |
| $75,000 + | 2.4 | (1.6-3.7) |

[a] Among adults aged 18-64 years, the proportion who reported having no health care coverage, including health insurance, prepaid plans such as HMOs, or government plans, such as Medicare or Indian Health Services. (N = 5,585)

## Table 7: Health Care Access
**2022 Michigan BRFS**

| | No Personal Health Care Provider[a] | | No Health Care Access During Past 12 Months Due to Cost[b] | |
|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **11.8** | **(10.9-12.8)** | **7.9** | **(7.2-8.7)** |
| **Age** | | | | |
| 18 - 24 | 22.5 | (18.6-27.0) | 9.3 | (6.9-12.6) |
| 25 - 34 | 23.3 | (20.1-26.8) | 13.5 | (11.1-16.2) |
| 35 - 44 | 13.1 | (10.8-15.6) | 9.1 | (7.1-11.5) |
| 45 - 54 | 9.9 | (8.2-11.9) | 6.8 | (5.5-8.5) |
| 55 - 64 | 5.7 | (4.5-7.1) | 8.4 | (6.7-10.3) |
| 65 - 74 | 2.8 | (2.1-3.6) | 3.7 | (2.7-4.9) |
| 75 + | 4.6 | (3.4-6.2) | 2.2 | (1.4-3.4) |
| **Gender** | | | | |
| Male | 16.8 | (15.3-18.4) | 7.0 | (6.0-8.1) |
| Female | 7.0 | (6.1-8.1) | 8.8 | (7.8-10.0) |
| **Race/Ethnicity** | | | | |
| White non-Hispanic | 10.7 | (9.7-11.7) | 7.1 | (6.3-7.9) |
| Black non-Hispanic | 10.0 | (7.7-12.9) | 8.1 | (6.0-10.8) |
| Other non-Hispanic | 19.7 | (14.9-25.5) | 10.5 | (7.1-15.1) |
| Hispanic | 20.4 | (15.2-26.8) | 14.6 | (10.4-20.1) |
| **Education** | | | | |
| Less than high school | 27.4 | (22.0-33.6) | 14.3 | (10.3-19.5) |
| High school graduate | 12.9 | (11.3-14.6) | 8.9 | (7.6-10.4) |
| Some college | 10.0 | (8.6-11.6) | 7.6 | (6.4-8.9) |
| College graduate | 7.8 | (6.8-8.9) | 5.2 | (4.4-6.1) |
| **Household Income** | | | | |
| < $20,000 | 15.3 | (12.3-18.9) | 18.0 | (14.4-22.3) |
| $20,000 - $34,999 | 11.8 | (9.6-14.5) | 12.3 | (10.2-14.7) |
| $35,000 - $49,999 | 14.3 | (11.0-18.4) | 11.5 | (8.9-14.8) |
| $50,000 - $74,999 | 12.2 | (9.9-14.9) | 7.2 | (5.4-9.4) |
| $75,000 + | 8.7 | (7.3-10.4) | 3.0 | (2.3-4.0) |

[a] Among all adults, the proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider. (N = 9,957)
[b] Among all adults, the proportion who reported that in the past 12 months, they could not see a doctor when they needed to due to the cost. (N = 10,027)

## Table 8: No Leisure Time Physical Activity
**2022 Michigan BRFS**

| | No Leisure Time Physical Activity[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **23.9** | **(22.8-25.0)** |
| **Age** | | |
| 18 – 24 | 17.3 | (13.8-21.4) |
| 25 – 34 | 18.6 | (15.8-21.7) |
| 35 – 44 | 18.9 | (16.4-21.8) |
| 45 – 54 | 24.6 | (21.8-27.5) |
| 55 – 64 | 27.5 | (25.0-30.2) |
| 65 – 74 | 27.6 | (25.3-30.0) |
| 75 + | 35.8 | (32.8-38.8) |
| **Gender** | | |
| Male | 21.3 | (19.8-22.8) |
| Female | 26.4 | (24.9-27.9) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 22.2 | (21.1-23.4) |
| Black non-Hispanic | 31.8 | (28.3-35.6) |
| Other non-Hispanic | 23.4 | (19.0-28.5) |
| Hispanic | 28.2 | (22.2-35.0) |
| **Education** | | |
| Less than high school | 37.9 | (32.3-43.8) |
| High school graduate | 28.4 | (26.3-30.5) |
| Some college | 24.6 | (22.8-26.6) |
| College graduate | 13.8 | (12.6-15.0) |
| **Household Income** | | |
| < $20,000 | 39.2 | (34.8-43.8) |
| $20,000 - $34,999 | 32.0 | (28.9-35.3) |
| $35,000 - $49,999 | 26.3 | (23.1-29.9) |
| $50,000 - $74,999 | 21.2 | (18.6-24.1) |
| $75,000 + | 14.2 | (12.7-15.8) |

[a] Among all adults, the proportion who reported not participating in any leisure time physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise during the past month. (N = 10,024)

## Table 9: Cigarette Smoking
**2022 Michigan BRFS**

| | Current Smoking[a] | | Former Smoking[b] | | Never Smoked | |
|---|---|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **15.2** | **(14.3-16.2)** | **26.7** | **(25.6-27.9)** | **58.1** | **(56.7-59.4)** |
| **Age** | | | | | | |
| 18 – 24 | 6.5 | (4.2-9.9) | 8.6 | (6.0-12.2) | 84.9 | (80.6-88.5) |
| 25 – 34 | 16.0 | (13.1-19.4) | 18.2 | (15.3-21.6) | 65.7 | (61.7-69.5) |
| 35 – 44 | 22.5 | (19.5-25.7) | 27.8 | (24.7-31.2) | 49.7 | (46.1-53.3) |
| 45 – 54 | 18.3 | (15.9-21.0) | 26.1 | (23.1-29.3) | 55.6 | (52.1-59.0) |
| 55 – 64 | 20.0 | (17.8-22.5) | 28.5 | (26.0-31.1) | 51.5 | (48.7-54.4) |
| 65 – 74 | 11.8 | (10.3-13.6) | 37.7 | (35.2-40.2) | 50.5 | (47.9-53.1) |
| 75 + | 6.8 | (5.3-8.7) | 42.9 | (39.8-46.1) | 50.3 | (47.1-53.4) |
| **Gender** | | | | | | |
| Male | 16.0 | (14.6-17.5) | 28.5 | (26.8-30.2) | 55.5 | (53.6-57.4) |
| Female | 14.5 | (13.2-15.9) | 25.0 | (23.5-26.6) | 60.5 | (58.7-62.3) |
| **Race/Ethnicity** | | | | | | |
| White non-Hispanic | 14.7 | (13.6-15.8) | 29.1 | (27.8-30.4) | 56.2 | (54.7-57.7) |
| Black non-Hispanic | 18.3 | (15.3-21.9) | 16.9 | (13.9-20.4) | 64.7 | (60.6-68.7) |
| Other non-Hispanic | 14.8 | (11.0-19.6) | 21.8 | (17.3-27.1) | 63.4 | (57.5-69.0) |
| Hispanic | 15.0 | (10.5-21.0) | 24.6 | (18.5-32.0) | 60.4 | (52.6-67.7) |
| **Education** | | | | | | |
| Less than high school | 29.4 | (24.3-35.1) | 29.8 | (24.3-36.0) | 40.8 | (34.5-47.5) |
| High school graduate | 21.0 | (19.0-23.2) | 27.9 | (25.8-30.1) | 51.1 | (48.5-53.6) |
| Some college | 14.4 | (12.8-16.1) | 29.4 | (27.3-31.5) | 56.3 | (53.9-58.6) |
| College graduate | 5.7 | (4.9-6.7) | 21.4 | (19.9-22.9) | 72.9 | (71.3-74.5) |
| **Household Income** | | | | | | |
| < $20,000 | 33.8 | (29.5-38.4) | 22.9 | (19.2-27.1) | 43.2 | (38.6-48.0) |
| $20,000 - $34,999 | 20.6 | (17.9-23.6) | 28.8 | (25.9-31.9) | 50.6 | (47.1-54.1) |
| $35,000 - $49,999 | 16.2 | (13.4-19.4) | 31.4 | (27.8-35.2) | 52.4 | (48.4-56.4) |
| $50,000 - $74,999 | 14.3 | (12.0-17.0) | 28.3 | (25.3-31.6) | 57.4 | (53.8-60.9) |
| $75,000 + | 10.1 | (8.7-11.8) | 25.5 | (23.7-27.5) | 64.3 | (62.1-66.5) |

[a] Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life and that they smoke cigarettes now, either every day or on some days. (N = 9,135)
[b] Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life, but they do not smoke cigarettes now. (N = 9,135)

## Table 10: Current Smokers Who Attempted to Quit
**2022 Michigan BRFS**

| | Tried to Quit Smoking One Day or Longer in Past Year[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **52.5** | **(48.7-56.1)** |
| **Age** | | |
| 18 – 24 | 65.3 | (42.4-82.8) |
| 25 – 34 | 52.4 | (40.8-63.8) |
| 35 – 44 | 54.1 | (45.8-62.2) |
| 45 – 54 | 53.0 | (45.2-60.6) |
| 55 – 64 | 51.7 | (44.8-58.5) |
| 65 – 74 | 47.9 | (40.0-55.9) |
| 75 + | 38.9 | (27.4-51.7) |
| **Gender** | | |
| Male | 52.9 | (47.6-58.1) |
| Female | 52.0 | (46.8-57.1) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 50.7 | (46.5-54.9) |
| Black non-Hispanic | 66.0 | (55.7-74.9) |
| Other non-Hispanic | 48.1 | (32.6-63.9) |
| Hispanic | 50.3 | (30.4-70.1) |
| **Education** | | |
| Less than high school | 44.9 | (34.3-55.9) |
| High school graduate | 57.0 | (51.3-62.5) |
| Some college | 49.4 | (43.1-55.8) |
| College graduate | 55.4 | (47.5-63.1) |
| **Household Income** | | |
| < $20,000 | 52.9 | (44.3-61.3) |
| $20,000 - $34,999 | 51.7 | (43.8-59.6) |
| $35,000 - $49,999 | 55.2 | (44.5-65.5) |
| $50,000 - $74,999 | 43.4 | (34.0-53.2) |
| $75,000 + | 55.9 | (47.4-64.1) |

[a] Among current smokers, the proportion who reported that during the past 12 months, they had tried to quit smoking for one day or longer. (N = 1,100)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 11: E-Cigarette Use
**2022 Michigan BRFS**

| | Current E-Cigarette Use[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **8.4** | **(7.6-9.4)** |
| **Age** | | |
| 18 – 24 | 23.7 | (19.5-28.4) |
| 25 – 34 | 14.3 | (11.8-17.2) |
| 35 – 44 | 11.8 | (9.5-14.5) |
| 45 – 54 | 5.0 | (3.8-6.7) |
| 55 – 64 | 2.9 | (2.1-4.1) |
| 65 – 74 | 1.7 | (1.2-2.5) |
| 75 + | --[b] | --[b] |
| **Gender** | | |
| Male | 9.1 | (7.9-10.5) |
| Female | 7.8 | (6.7-9.0) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 7.8 | (7.0-8.8) |
| Black non-Hispanic | 8.0 | (5.8-10.9) |
| Other non-Hispanic | 13.3 | (9.4-18.5) |
| Hispanic | 11.4 | (7.2-17.6) |
| **Education** | | |
| Less than high school | 12.0 | (8.5-16.8) |
| High school graduate | 10.8 | (9.1-12.8) |
| Some college | 8.8 | (7.4-10.5) |
| College graduate | 4.4 | (3.6-5.3) |
| **Household Income** | | |
| < $20,000 | 9.1 | (6.6-12.6) |
| $20,000 - $34,999 | 10.2 | (8.0-12.8) |
| $35,000 - $49,999 | 9.4 | (7.2-12.2) |
| $50,000 - $74,999 | 9.2 | (7.0-12.0) |
| $75,000 + | 6.6 | (5.4-8.0) |

[a] Among all adults, the proportion who reported that they currently use e-cigarettes or other electronic vaping products, either every day or on some days. (N = 9,098)

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

## Table 12: Smokeless Tobacco Use
**2022 Michigan BRFS**

| | Current Smokeless Tobacco Use[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **2.6** | **(2.2-3.2)** |
| **Age** | | |
| 18 – 24 | --[b] | --[b] |
| 25 – 34 | 4.9 | (3.2-7.4) |
| 35 – 44 | 2.7 | (1.9-4.0) |
| 45 – 54 | 2.6 | (1.7-3.8) |
| 55 – 64 | 2.3 | (1.6-3.5) |
| 65 – 74 | 1.1 | (0.7-1.8) |
| 75 + | --[b] | --[b] |
| **Gender** | | |
| Male | 4.6 | (3.7-5.7) |
| Female | 0.8 | (0.5-1.2) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 2.6 | (2.1-3.3) |
| Black non-Hispanic | --[b] | --[b] |
| Other non-Hispanic | --[b] | --[b] |
| Hispanic | --[b] | --[b] |
| **Education** | | |
| Less than high school | 5.6 | (3.0-10.0) |
| High school graduate | 3.4 | (2.4-4.7) |
| Some college | 2.3 | (1.7-3.1) |
| College graduate | 1.4 | (1.0-1.9) |
| **Household Income** | | |
| < $20,000 | 2.9 | (1.6-5.1) |
| $20,000 - $34,999 | 2.7 | (1.7-4.5) |
| $35,000 - $49,999 | 2.8 | (1.6-4.8) |
| $50,000 - $74,999 | 2.0 | (1.2-3.2) |
| $75,000 + | 3.1 | (2.2-4.2) |

[a] Among all adults, the proportion who reported that they currently use chewing tobacco, snuff or snus, either every day or on some days. (N = 9,142)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 13: Hookah Use
**2022 Michigan BRFS**

| | Current Hookah Use[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **1.8** | **(1.4-2.4)** |
| **Age** | | |
| 18 – 24 | --[b] | --[b] |
| 25 – 34 | 3.2 | (1.8-5.4) |
| 35 – 44 | --[b] | --[b] |
| 45 – 54 | --[b] | --[b] |
| 55 – 64 | --[b] | --[b] |
| 65 – 74 | --[b] | --[b] |
| 75 + | --[b] | --[b] |
| **Gender** | | |
| Male | 1.9 | (1.3-2.9) |
| Female | 1.7 | (1.1-2.6) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 1.6 | (1.1-2.3) |
| Black non-Hispanic | --[b] | --[b] |
| Other non-Hispanic | --[b] | --[b] |
| Hispanic | --[b] | --[b] |
| **Education** | | |
| Less than high school | --[b] | --[b] |
| High school graduate | 2.1 | (1.3-3.2) |
| Some college | 2.5 | (1.6-4.1) |
| College graduate | 0.9 | (0.5-1.6) |
| **Household Income** | | |
| < $20,000 | --[b] | --[b] |
| $20,000 - $34,999 | 2.4 | (1.4-4.3) |
| $35,000 - $49,999 | --[b] | --[b] |
| $50,000 - $74,999 | --[b] | --[b] |
| $75,000 + | --[b] | --[b] |

[a] Among all adults, the proportion who reported smoking tobacco using a hookah, narghile, or water pipe on one or more days during the previous thirty day. (N = 5,766)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 14: Alcohol Consumption
**2022 Michigan BRFS**

| | Any Alcohol in Past Month[a] | | Heavy Drinking[b] | | Binge Drinking[c] | |
|---|---|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **55.2** | **(53.8-56.6)** | **7.2** | **(6.5-7.9)** | **17.0** | **(16.0-18.1)** |
| **Age** | | | | | | |
| 18 – 24 | 52.9 | (47.6-58.2) | 7.8 | (5.2-11.4) | 23.7 | (19.6-28.3) |
| 25 – 34 | 63.3 | (59.3-67.1) | 8.2 | (6.3-10.8) | 26.0 | (22.5-29.7) |
| 35 – 44 | 62.2 | (58.5-65.7) | 9.9 | (8.0-12.3) | 24.1 | (21.2-27.4) |
| 45 – 54 | 59.9 | (56.3-63.3) | 6.7 | (5.2-8.5) | 17.4 | (15.0-20.0) |
| 55 – 64 | 55.0 | (52.1-57.9) | 8.5 | (7.1-10.2) | 15.2 | (13.2-17.3) |
| 65 – 74 | 48.5 | (45.9-51.2) | 5.0 | (4.0-6.4) | 6.6 | (5.4-8.1) |
| 75 + | 40.3 | (37.3-43.4) | 2.6 | (1.8-3.7) | 2.7 | (1.8-4.1) |
| **Gender** | | | | | | |
| Male | 59.5 | (57.5-61.5) | 7.0 | (6.0-8.0) | 20.0 | (18.5-21.7) |
| Female | 51.1 | (49.2-52.9) | 7.4 | (6.4-8.5) | 14.1 | (12.7-15.7) |
| **Race/Ethnicity** | | | | | | |
| White non-Hispanic | 57.1 | (55.6-58.6) | 7.5 | (6.7-8.4) | 17.9 | (16.7-19.1) |
| Black non-Hispanic | 49.6 | (45.2-53.9) | 5.4 | (3.6-7.9) | 12.2 | (9.6-15.3) |
| Other non-Hispanic | 47.7 | (41.5-54.0) | 4.5 | (2.8-7.3) | 15.3 | (11.0-20.9) |
| Hispanic | 51.0 | (43.1-58.9) | 9.5 | (5.3-16.5) | 19.0 | (13.4-26.3) |
| **Education** | | | | | | |
| Less than high school | 37.7 | (31.4-44.5) | 8.3 | (5.3-12.9) | 15.3 | (10.8-21.2) |
| High school graduate | 48.5 | (45.9-51.2) | 7.5 | (6.2-9.0) | 17.0 | (15.0-19.2) |
| Some college | 54.7 | (52.3-57.1) | 7.1 | (5.9-8.5) | 16.6 | (14.8-18.6) |
| College graduate | 67.7 | (65.9-69.5) | 6.7 | (5.8-7.7) | 18.0 | (16.5-19.6) |
| **Household Income** | | | | | | |
| < $20,000 | 40.0 | (35.2-44.9) | 6.5 | (4.5-9.3) | 15.0 | (11.6-19.1) |
| $20,000 - $34,999 | 44.7 | (41.2-48.3) | 5.8 | (4.3-7.8) | 13.6 | (11.1-16.4) |
| $35,000 - $49,999 | 50.2 | (46.1-54.3) | 7.9 | (5.5-11.0) | 14.0 | (11.2-17.4) |
| $50,000 - $74,999 | 56.7 | (53.0-60.4) | 6.4 | (4.9-8.5) | 15.2 | (12.8-18.1) |
| $75,000 + | 70.9 | (68.7-72.9) | 9.0 | (7.7-10.4) | 23.3 | (21.3-25.4) |

[a] Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month. (N = 8,807)
[b] Among all adults, the proportion who reported consuming an average of more than two alcoholic drinks per day for men or more than one per day for women in the previous month. (N = 8,749)
[c] Among all adults, the proportion who reported consuming five or more drinks per occasion (for men) or 4 or more drinks per occasion (for women) at least once in the previous month. (N = 8,739)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

**Table 15: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers**
**2022 Michigan BRFS**

| | Number of Binge Drinking Occasions[a] | |
|---|---|---|
| | **Mean** | **95% Confidence Interval** |
| **Total** | **5.3** | **(4.8-5.9)** |
| **Age** | | |
| 18 – 24 | 4.0 | (2.8-5.2) |
| 25 – 34 | 4.2 | (3.3-5.0) |
| 35 – 44 | 6.9 | (5.2-8.6) |
| 45 – 54 | 4.8 | (3.7-5.9) |
| 55 – 64 | 6.3 | (5.0-7.6) |
| 65 – 74 | 6.7 | (4.7-8.7) |
| 75+ | 5.7 | (3.4-8.0) |
| **Gender** | | |
| Male | 5.8 | (5.0-6.6) |
| Female | 4.7 | (3.9-5.4) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 5.2 | (4.6-5.8) |
| Black non-Hispanic | 5.8 | (3.9-7.8) |
| Other non-Hispanic | 3.7 | (2.3-5.2) |
| Hispanic | 7.8 | (4.5-11.1) |
| **Education** | | |
| Less than high school | 8.5 | (4.4-12.6) |
| High school graduate | 5.3 | (4.4-6.1) |
| Some college | 5.9 | (4.9-6.8) |
| College graduate | 3.9 | (3.3-4.5) |
| **Household Income** | | |
| < $20,000 | 5.2 | (3.7-6.7) |
| $20,000 - $34,999 | 6.5 | (4.7-8.4) |
| $35,000 - $49,999 | 6.5 | (4.5-8.6) |
| $50,000 - $74,999 | 4.6 | (3.5-5.8) |
| $75,000 + | 4.9 | (4.0-5.8) |

[a] Among adults who binge drank in the past month, the mean number of times during which five or more alcoholic beverages (for men) or four or more (for women) were consumed during the past month. (N = 1,220)

| Table 16: No Routine Checkup in Past Year<br>2022 Michigan BRFS | | |
|---|---|---|
| | Had No Routine Checkup in Past Year[a] | |
| | % | 95% Confidence Interval |
| **Total** | **20.8** | **(19.7-21.9)** |
| **Age** | | |
| 18 - 24 | 31.1 | (26.5-35.9) |
| 25 - 34 | 30.5 | (27.2-34.1) |
| 35 - 44 | 26.3 | (23.4-29.3) |
| 45 - 54 | 22.3 | (19.7-25.0) |
| 55 - 64 | 17.7 | (15.6-20.1) |
| 65 - 74 | 8.2 | (7.0-9.5) |
| 75 + | 6.2 | (4.7-8.0) |
| **Gender** | | |
| Male | 25.7 | (24.1-27.5) |
| Female | 16.2 | (14.8-17.6) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 20.7 | (19.5-21.9) |
| Black non-Hispanic | 16.4 | (13.5-19.8) |
| Other non-Hispanic | 24.3 | (19.7-29.5) |
| Hispanic | 27.0 | (21.2-33.7) |
| **Education** | | |
| Less than high school | 25.7 | (20.4-31.8) |
| High school graduate | 22.7 | (20.7-24.9) |
| Some college | 19.5 | (17.7-21.4) |
| College graduate | 18.8 | (17.4-20.3) |
| **Household Income** | | |
| < $20,000 | 19.2 | (15.7-23.1) |
| $20,000 - $34,999 | 18.9 | (16.3-21.8) |
| $35,000 - $49,999 | 26.0 | (22.1-30.4) |
| $50,000 - $74,999 | 19.7 | (17.0-22.8) |
| $75,000 + | 21.5 | (19.6-23.5) |

[a] Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 9,953)

## Table 17: Mammography Indicators Among Women Aged 40 Years and Older
**2022 Michigan BRFS**

| | Ever Had Mammogram[a] | | Had Mammogram in Past Year[b] | | Had Mammogram in Past TwoYears[c] | |
|---|---|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **93.9** | **(92.7-94.8)** | **55.0** | **(53.0-57.0)** | **72.7** | **(70.8-74.5)** |
| **Age** | | | | | | |
| 40 - 49 | 80.8 | (76.3-84.6) | 50.0 | (44.9-55.1) | 66.2 | (61.1-70.9) |
| 50 - 59 | 96.2 | (94.5-97.5) | 55.5 | (51.1-59.8) | 75.4 | (71.4-79.0) |
| 60 - 69 | 97.2 | (95.7-98.1) | 59.6 | (55.9-63.2) | 76.7 | (73.5-79.7) |
| 70 + | 98.3 | (97.3-99.0) | 53.7 | (50.5-56.8) | 71.4 | (68.3-74.2) |
| **Race/Ethnicity** | | | | | | |
| White non-Hispanic | 94.3 | (93.1-95.3) | 56.1 | (53.9-58.2) | 73.6 | (71.6-75.5) |
| Black non-Hispanic | 92.7 | (87.9-95.7) | 52.6 | (46.5-58.7) | 70.7 | (64.5-76.3) |
| Other non-Hispanic | --[d] | --[d] | 45.1 | (33.7-57.0) | 65.4 | (53.1-76.0) |
| Hispanic | --[d] | --[d] | 47.0 | (33.4-61.1) | 65.7 | (50.9-78.0) |
| **Education** | | | | | | |
| < High school | --[d] | --[d] | 32.6 | (23.6-43.1) | 58.9 | (47.9-69.1) |
| High school graduate | 94.0 | (91.7-95.8) | 52.4 | (48.6-56.2) | 67.5 | (63.9-71.0) |
| Some college | 94.2 | (92.1-95.8) | 54.3 | (50.8-57.7) | 73.5 | (70.2-76.5) |
| College graduate | 93.9 | (92.2-95.3) | 63.6 | (60.8-66.4) | 79.9 | (77.5-82.1) |
| **Household Income** | | | | | | |
| < $20,000 | 87.9 | (82.3-91.9) | 44.3 | (37.5-51.4) | 60.3 | (53.2-67.0) |
| $20,000 - $34,999 | 93.1 | (89.7-95.5) | 46.5 | (41.5-51.5) | 65.7 | (60.8-70.3) |
| $35,000 - $49,999 | 96.2 | (93.4-97.8) | 51.8 | (46.0-57.5) | 73.1 | (67.8-77.7) |
| $50,000 - $74,999 | 93.3 | (89.4-95.9) | 58.5 | (52.9-63.8) | 72.8 | (67.4-77.6) |
| $75,000 + | 93.4 | (91.0-95.2) | 63.5 | (59.9-67.0) | 80.7 | (77.6-83.6) |

Note: Data included diagnostic tests.
[a] Among women aged 40 years and older, the proportion who reported ever having a mammogram. (N = 4,073)
[b] Among women aged 40 years and older, the proportion who reported having a mammogram in the past year. (N = 3,994)
[c] Among women aged 40 years and older, the proportion who reported having a mammogram in the past two years. (N = 3,994)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 18: Cervical Cancer Screening Among Women Aged 18 Years and Older
**2022 Michigan BRFS**

| | Ever Had Cervical Cancer Screening Test[a] | | Had Cervical Cancer Screening Test in Past Three Years[b] | |
|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **63.7** | **(61.4-66.0)** | **54.6** | **(51.9-57.4)** |
| **Age** | | | | |
| 18 - 29 | 29.4 | (24.5-34.8) | 35.2 | (29.1-41.7) |
| 30 - 39 | 69.8 | (64.1-74.9) | 54.1 | (48.1-60.1) |
| 40 - 49 | 82.1 | (76.8-86.4) | 63.8 | (57.9-69.3) |
| 50 - 59 | 77.2 | (72.0-81.8) | 61.6 | (56.2-66.7) |
| 60 - 69 | 79.2 | (75.3-82.6) | 62.9 | (56.8-68.6) |
| 70 + | 59.1 | (54.7-63.3) | .- | - |
| **Race/Ethnicity** | | | | |
| White non-Hispanic | 67.6 | (65.1-70.1) | 59.2 | (56.2-62.2) |
| Black non-Hispanic | 54.5 | (47.7-61.1) | 43.2 | (35.7-51.1) |
| Other non-Hispanic | 52.5 | (42.0-62.7) | 37.9 | (27.5-49.5) |
| Hispanic | 51.3 | (38.7-63.7) | 50.0 | (36.5-63.4) |
| **Education** | | | | |
| Less than high school | 48.4 | (36.3-60.8) | 38.4 | (24.6-54.4) |
| High school graduate | 49.9 | (45.4-54.5) | 45.9 | (40.3-51.6) |
| Some college | 66.8 | (62.7-70.6) | 54.3 | (49.3-59.3) |
| College graduate | 76.5 | (73.7-79.1) | 64.6 | (61.1-68.0) |
| **Household Income** | | | | |
| < $20,000 | 49.5 | (41.9-57.1) | 38.1 | (29.6-47.4) |
| $20,000 - $34,999 | 56.2 | (50.1-62.1) | 40.0 | (33.0-47.4) |
| $35,000 - $49,999 | 65.7 | (59.1-71.7) | 56.7 | (48.3-64.7) |
| $50,000 - $74,999 | 69.2 | (63.0-74.9) | 59.7 | (52.7-66.4) |
| $75,000 + | 75.8 | (71.7-79.5) | 66.4 | (61.9-70.5) |

Note: Data includes diagnostic tests and excludes women who have had a hysterectomy.
[a] Among women aged 18 years and older, the proportion who reported ever having a cervical cancer screening test. (N = 3,325)
[b] Among women aged 21-65 years and older, the proportion who reported having a cervical cancer screening test in the past three years (N = 2,044)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 19: Colorectal Cancer Screening (Blood Stool Test) Among Adults Aged 50 Years and Older
**2022 Michigan BRFS**

| | Ever Had Blood Stool Test[a] | | Had Blood Stool Test in Past Two Years[b] | |
|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **80.1** | **(77.3-82.6)** | **42.5** | **(39.4-45.7)** |
| **Age** | | | | |
| 50 - 59 | 80.5 | (75.1-85.0) | 46.8 | (40.3-53.4) |
| 60 - 69 | 77.8 | (72.5-82.4) | 44.9 | (39.4-50.5) |
| 70 + | 82.0 | (78.1-85.3) | 37.1 | (32.8-41.5) |
| **Gender** | | | | |
| Male | 77.4 | (73.1-81.1) | 37.1 | (32.6-41.8) |
| Female | 82.2 | (78.5-85.4) | 46.7 | (42.5-50.9) |
| **Race/Ethnicity** | | | | |
| White non-Hispanic | 79.8 | (76.8-82.5) | 42.1 | (38.8-45.4) |
| Black non-Hispanic | 83.2 | (71.9-90.6) | 44.4 | (33.1-56.3) |
| Other non-Hispanic | --[c] | --[c] | 46.2 | (27.9-65.5) |
| Hispanic | --[c] | --[c] | 50.1 | (23.5-76.7) |
| **Education** | | | | |
| Less than high school | --[c] | --[c] | 48.2 | (29.0-68.0) |
| High school graduate | 77.6 | (72.2-82.2) | 42.6 | (36.7-48.8) |
| Some college | 82.4 | (78.1-86.0) | 44.9 | (39.7-50.2) |
| College graduate | 81.3 | (77.7-84.5) | 37.8 | (33.6-42.2) |
| **Household Income** | | | | |
| < $20,000 | 87.1 | (78.5-92.5) | 54.7 | (42.8-66.0) |
| $20,000 - $34,999 | 83.0 | (76.7-87.9) | 52.1 | (44.4-59.7) |
| $35,000 - $49,999 | 76.6 | (66.6-84.4) | 36.4 | (28.6-45.1) |
| $50,000 - $74,999 | 80.0 | (72.4-86.0) | 42.7 | (34.6-51.2) |
| $75,000 + | 76.1 | (70.9-80.7) | 36.4 | (31.2-41.9) |

[a] Among adults aged 50 years and older, the proportion who reported ever having a blood stool test using a home kit. (N = 1,551)
[b] Among adults aged 50 years and older, the proportion who reported having a blood stool test within the past two years using a home kit (N = 1,504)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 20: Colorectal Cancer Screening (Sigmoidoscopy/Colonoscopy) Among Adults Aged 50 Years and Older
**2022 Michigan BRFS**

| | Ever Had a Sigmoidoscopy or Colonoscopy[a] | | Had a Sigmoidoscopy or Colonoscopy in Past 5 Years[b] | | Had a Sigmoidoscopy in Past 5 Years or Colonoscopy in Past 10 Years[c] | |
|---|---|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **79.7** | **(78.4-81.0)** | **56.5** | **(54.9-58.1)** | **72.6** | **(71.1-74.0)** |
| **Age** | | | | | | |
| 50 - 59 | 68.1 | (65.0-71.0) | 52.4 | (49.2-55.6) | 64.5 | (61.3-67.5) |
| 60 - 69 | 82.3 | (80.0-84.3) | 59.8 | (57.2-62.5) | 76.4 | (74.0-78.7) |
| 70 + | 87.1 | (85.4-88.7) | 56.6 | (54.1-59.0) | 75.6 | (73.3-77.7) |
| **Gender** | | | | | | |
| Male | 79.2 | (77.1-81.1) | 57.1 | (54.7-59.4) | 73.3 | (71.1-75.4) |
| Female | 80.2 | (78.4-81.9) | 56.0 | (53.9-58.1) | 71.9 | (69.9-73.9) |
| **Race/Ethnicity** | | | | | | |
| White non-Hispanic | 81.0 | (79.6-82.4) | 57.2 | (55.6-58.9) | 73.7 | (72.2-75.2) |
| Black non-Hispanic | 79.1 | (74.4-83.1) | 59.5 | (54.1-64.6) | 75.0 | (70.0-79.4) |
| Other non-Hispanic | 69.3 | (59.7-77.4) | 43.7 | (34.5-53.3) | 57.8 | (48.0-67.0) |
| Hispanic | 66.9 | (52.7-78.6) | 47.4 | (33.9-61.3) | 61.4 | (47.0-74.0) |
| **Education** | | | | | | |
| Less than high school | 62.7 | (54.7-70.0) | 44.5 | (36.4-52.9) | 52.9 | (44.6-61.0) |
| High school graduate | 76.3 | (73.7-78.8) | 54.1 | (51.1-57.1) | 69.4 | (66.5-72.1) |
| Some college | 81.2 | (78.8-83.3) | 58.3 | (55.5-61.0) | 74.1 | (71.5-76.5) |
| College graduate | 86.3 | (84.6-87.8) | 59.9 | (57.7-62.2) | 79.4 | (77.5-81.2) |
| **Household Income** | | | | | | |
| < $20,000 | 69.9 | (64.4-75.0) | 51.2 | (45.4-56.9) | 61.7 | (55.8-67.3) |
| $20,000 - $34,999 | 75.1 | (71.4-78.6) | 52.5 | (48.5-56.6) | 67.4 | (63.4-71.1) |
| $35,000 - $49,999 | 80.4 | (76.5-83.8) | 53.9 | (49.4-58.5) | 69.4 | (64.9-73.4) |
| $50,000 - $74,999 | 84.9 | (81.5-87.8) | 62.1 | (58.0-66.0) | 78.0 | (74.3-81.3) |
| $75,000 + | 83.5 | (81.2-85.6) | 60.9 | (58.1-63.6) | 79.1 | (76.7-81.3) |

[a] Among adults aged 50 years and older, the proportion who reported ever having a sigmoidoscopy or colonoscopy. (N = 6,152)
[b] Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy or colonoscopy in the past five years. (N = 5,945)
[c] Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy in the past five years or a colonoscopy in the past ten years. (N = 5,960)

**Table 21: Appropriate Colorectal Cancer Screening Among Adults 50 Years and Older**
**2022 Michigan BRFS**

| | Appropriate Colorectal Cancer Screening[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **75.1** | **(73.7-76.5)** |
| **Age** | | |
| 50 - 59 | 67.1 | (64.0-70.1) |
| 60 - 69 | 79.2 | (76.9-81.3) |
| 70 + | 77.8 | (75.7-79.9) |
| **Gender** | | |
| Male | 75.6 | (73.5-77.7) |
| Female | 74.7 | (72.7-76.6) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 76.2 | (74.7-77.6) |
| Black non-Hispanic | 76.5 | (71.6-80.8) |
| Other non-Hispanic | 65.1 | (55.6-73.6) |
| Hispanic | 63.1 | (48.7-75.5) |
| **Education** | | |
| Less than high school | 54.9 | (46.6-62.9) |
| High school graduate | 71.9 | (69.1-74.5) |
| Some college | 77.0 | (74.6-79.3) |
| College graduate | 81.6 | (79.8-83.3) |
| **Household Income** | | |
| < $20,000 | 63.5 | (57.6-69.0) |
| $20,000 - $34,999 | 71.8 | (68.0-75.3) |
| $35,000 - $49,999 | 72.2 | (67.8-76.2) |
| $50,000 - $74,999 | 80.5 | (77.1-83.6) |
| $75,000 + | 81.0 | (78.6-83.2) |

[a] Among adults aged 50 years and older, the proportion who reported having either a fecal occult blood test within the past year, a sigmoidoscopy within the past five years, or a colonoscopy within the past ten years. (N = 5,975)

## Table 22: Oral Health
**2022 Michigan BRFS**

| | No Dental Visit in Past Year[a] | | 6+ Teeth Missing[b] | |
|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **30.6** | **(29.4-31.9)** | **13.4** | **(12.6-14.3)** |
| **Age** | | | | |
| 18 - 24 | 29.5 | (25.1-34.3) | --[c] | --[c] |
| 25 - 34 | 36.9 | (33.2-40.7) | 4.0 | (2.7-5.9) |
| 35 - 44 | 32.6 | (29.3-36.0) | 7.7 | (5.9-10.0) |
| 45 - 54 | 30.7 | (27.8-33.8) | 11.1 | (9.2-13.2) |
| 55 - 64 | 30.1 | (27.6-32.7) | 20.0 | (17.8-22.3) |
| 65 - 74 | 26.0 | (23.8-28.4) | 22.8 | (20.6-25.1) |
| 75 + | 26.5 | (23.8-29.4) | 32.2 | (29.2-35.4) |
| **Gender** | | | | |
| Male | 32.9 | (31.1-34.7) | 13.1 | (12.0-14.4) |
| Female | 28.5 | (26.9-30.2) | 13.7 | (12.6-14.9) |
| **Race/Ethnicity** | | | | |
| White non-Hispanic | 27.1 | (25.8-28.4) | 13.0 | (12.1-14.0) |
| Black non-Hispanic | 38.5 | (34.7-42.4) | 19.1 | (16.3-22.2) |
| Other non-Hispanic | 43.4 | (37.7-49.4) | 9.5 | (7.0-12.9) |
| Hispanic | 39.7 | (32.9-46.9) | 11.1 | (7.4-16.2) |
| **Education** | | | | |
| Less than high school | 56.9 | (50.6-63.0) | 28.9 | (24.1-34.3) |
| High school graduate | 34.9 | (32.6-37.3) | 18.1 | (16.5-19.9) |
| Some college | 29.9 | (27.9-32.0) | 12.6 | (11.4-14.0) |
| College graduate | 18.7 | (17.3-20.2) | 4.5 | (3.9-5.2) |
| **Household Income** | | | | |
| < $20,000 | 55.5 | (50.8-60.1) | 28.6 | (24.6-32.9) |
| $20,000 - $34,999 | 45.4 | (42.0-48.9) | 25.8 | (23.0-28.9) |
| $35,000 - $49,999 | 35.2 | (31.4-39.3) | 14.8 | (12.5-17.5) |
| $50,000 - $74,999 | 27.3 | (24.2-30.6) | 10.3 | (8.6-12.3) |
| $75,000 + | 17.8 | (16.1-19.7) | 4.9 | (4.1-5.9) |

[a] Among all adults, the proportion who reported that they had not visited a dentist or dental clinic for any reason in the previous year. (N = 9,955)
[b] Among all adults, the proportion who reported that they were missing 6+ teeth due to tooth decay or gum disease. This excludes teeth lost for other reasons, such as injury or orthodontics. (N = 9,849)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 23: Immunizations among Adults Aged 65 Years and Older
**2022 Michigan BRFS**

| | Had Flu Vaccine in Past Year[a] | | Ever Had Pneumonia Vaccine[b] | |
|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **74.6** | **(72.7-76.3)** | **74.5** | **(72.6-76.3)** |
| **Age** | | | | |
| 65 - 74 | 71.6 | (69.2-73.9) | 71.4 | (68.9-73.7) |
| 75 + | 79.0 | (76.0-81.7) | 79.3 | (76.3-82.0) |
| **Gender** | 74.6 | (72.7-76.3) | 74.5 | (72.6-76.3) |
| Male | 74.3 | (71.5-77.0) | 69.3 | (66.2-72.2) |
| Female | 74.7 | (72.3-77.0) | 78.6 | (76.2-80.7) |
| **Race/Ethnicity** | | | | (72.8-76.5) |
| White non-Hispanic | 75.9 | (73.9-77.7) | 76.5 | (74.6-78.3) |
| Black non-Hispanic | 69.9 | (63.0-76.0) | 65.9 | (58.5-72.6) |
| Other non-Hispanic | 78.7 | (65.7-87.7) | 63.7 | (49.3-76.0) |
| Hispanic | 47.4 | (24.6-71.3) | 52.0 | (27.2-75.8) |
| **Education** | | | | |
| Less than high school | 59.3 | (47.1-70.5) | 66.5 | (54.3-76.7) |
| High school graduate | 71.7 | (68.2-74.9) | 72.2 | (68.6-75.6) |
| Some college | 74.7 | (71.6-77.6) | 76.1 | (73.0-79.0) |
| College graduate | 81.3 | (78.9-83.4) | 76.6 | (73.9-79.1) |
| **Household Income** | | | | |
| < $20,000 | 67.3 | (59.3-74.5) | 64.4 | (55.6-72.3) |
| $20,000 - $34,999 | 68.1 | (63.3-72.4) | 70.5 | (65.7-74.8) |
| $35,000 - $49,999 | 74.9 | (70.2-79.1) | 75.5 | (70.6-79.8) |
| $50,000 - $74,999 | 80.1 | (75.6-83.9) | 79.7 | (75.3-83.5) |
| $75,000 + | 80.6 | (76.9-83.9) | 75.3 | (71.4-78.9) |

[a] Among adults aged 65 years and older, the proportion who reported that they had a flu vaccine, either by an injection in the arm or sprayed in the nose during the past 12 months. (N = 3,556)
[b] Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 3,443)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

**Table 24: HIV Testing among Adults Aged 18 - 64 Years**
**2022 Michigan BRFS**

| | Ever Had an HIV Test[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **43.2** | **(41.5-45.0)** |
| **Age** | | |
| 18 – 24 | 25.1 | (20.7-30.2) |
| 25 – 34 | 45.4 | (41.2-49.6) |
| 35 – 44 | 54.4 | (50.6-58.1) |
| 45 – 54 | 51.5 | (47.9-55.1) |
| 55 – 64 | 38.3 | (35.4-41.2) |
| **Gender** | | |
| Male | 39.5 | (37.1-42.0) |
| Female | 47.0 | (44.5-49.5) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 39.5 | (37.6-41.5) |
| Black non-Hispanic | 66.7 | (61.5-71.5) |
| Other non-Hispanic | 39.6 | (33.1-46.5) |
| Hispanic | 42.3 | (33.9-51.2) |
| **Education** | | |
| Less than high school | 40.2 | (32.8-48.2) |
| High school graduate | 43.8 | (40.5-47.3) |
| Some college | 44.6 | (41.5-47.9) |
| College graduate | 42.1 | (39.8-44.6) |
| **Household Income** | | |
| < $20,000 | 52.0 | (46.0-58.0) |
| $20,000 - $34,999 | 51.1 | (46.1-56.1) |
| $35,000 - $49,999 | 41.3 | (35.7-47.3) |
| $50,000 - $74,999 | 42.8 | (38.1-47.7) |
| $75,000 + | 41.4 | (38.8-44.1) |

[a] Among adults aged 18 - 64 years, the proportion who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation. Don't know was considered a valid response to this question. (N = 4,721)

## Table 25: Asthma among Adults
**2022 Michigan BRFS**

| | Lifetime Asthma Prevalence[a] | | Current Asthma Prevalence[b] | |
|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **16.8** | **(15.8-17.8)** | **11.9** | **(11.1-12.8)** |
| **Age** | | | | |
| 18 - 24 | 19.9 | (16.1-24.3) | 13.0 | (9.9-16.9) |
| 25 - 34 | 18.3 | (15.6-21.4) | 10.9 | (8.9-13.4) |
| 35 - 44 | 19.5 | (16.8-22.5) | 13.8 | (11.4-16.6) |
| 45 - 54 | 19.2 | (16.8-21.8) | 15.6 | (13.3-18.1) |
| 55 - 64 | 14.4 | (12.7-16.4) | 11.0 | (9.4-12.7) |
| 65 - 74 | 15.1 | (13.4-17.1) | 10.8 | (9.3-12.5) |
| 75 + | 11.1 | (9.3-13.3) | 8.0 | (6.5-9.8) |
| **Gender** | | | | |
| Male | 14.1 | (12.8-15.5) | 8.7 | (7.7-9.9) |
| Female | 19.4 | (18.0-20.9) | 14.9 | (13.7-16.3) |
| **Race/Ethnicity** | | | | |
| White non-Hispanic | 16.3 | (15.3-17.4) | 11.6 | (10.7-12.6) |
| Black non-Hispanic | 19.1 | (16.2-22.4) | 13.4 | (11.0-16.4) |
| Other non-Hispanic | 18.2 | (13.9-23.5) | 12.6 | (9.0-17.4) |
| Hispanic | 18.8 | (13.7-25.2) | 11.5 | (7.9-16.4) |
| **Education** | | | | |
| Less than high school | 19.1 | (14.7-24.4) | 13.9 | (10.2-18.7) |
| High school graduate | 16.2 | (14.4-18.1) | 12.3 | (10.7-14.1) |
| Some college | 18.5 | (16.8-20.4) | 12.8 | (11.4-14.4) |
| College graduate | 14.5 | (13.3-15.9) | 9.5 | (8.5-10.7) |
| **Household Income** | | | | |
| < $20,000 | 24.1 | (20.3-28.3) | 18.5 | (15.2-22.3) |
| $20,000 - $34,999 | 18.1 | (15.7-20.9) | 13.3 | (11.3-15.7) |
| $35,000 - $49,999 | 14.6 | (12.0-17.7) | 10.5 | (8.3-13.4) |
| $50,000 - $74,999 | 17.1 | (14.5-20.1) | 10.9 | (8.8-13.4) |
| $75,000 + | 14.5 | (13.0-16.1) | 9.7 | (8.5-11.1) |

[a] Among all adults, the proportion who reported that they were ever told by a doctor, nurse, or other health care professional that they had asthma. (N = 10,015)
[b] Among all adults, the proportion who reported that they still had asthma. (N = 9,976)

## Table 26: Asthma among Children
**2022 Michigan BRFS**

| | Lifetime Asthma Prevalence[a] | | Current Asthma Prevalence[b] | |
|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **9.9** | **(7.9-12.4)** | **6.7** | **(4.9-9.0)** |
| **Age** | | | | |
| 0 - 4 | --[c] | --[c] | --[c] | --[c] |
| 5 - 9 | 6.5 | (3.7-11.1) | --[c] | --[c] |
| 10 - 14 | 13.2 | (8.5-19.7) | 9.8 | (5.5-16.8) |
| 15 - 17 | 20.8 | (14.2-29.6) | 11.8 | (6.5-20.7) |
| **Gender** | | | | |
| Boy | 11.4 | (8.2-15.7) | 7.8 | (5.0-11.9) |
| Girl | 8.5 | (6.2-11.5) | 5.7 | (3.9-8.3) |
| **Race/Ethnicity** | | | | |
| White non-Hispanic | 9.4 | (6.8-12.9) | 7.7 | (5.2-11.4) |
| Black non-Hispanic | 13.8 | (8.8-21.1) | 6.8 | (4.0-11.2) |
| Other non-Hispanic | 8.4 | (4.7-14.6) | --[c] | --[c] |
| Hispanic | --[c] | --[c] | --[c] | --[c] |
| **Respondent Education** | | | | |
| Less than high school | --[c] | --[c] | --[c] | --[c] |
| High school graduate | 11.3 | (7.6-16.6) | 6.6 | (4.1-10.4) |
| Some college | 11.5 | (8.0-16.2) | 6.9 | (4.7-10.1) |
| College graduate | 8.7 | (5.7-13.0) | 6.8 | (3.9-11.4) |
| **Household Income** | | | | |
| < $20,000 | --[c] | --[c] | --[c] | --[c] |
| $20,000 - $34,999 | 16.2 | (10.0-25.4) | 8.3 | (4.9-13.7) |
| $35,000 - $49,999 | --[c] | --[c] | --[c] | --[c] |
| $50,000 - $74,999 | 6.1 | (3.5-10.3) | --[c] | --[c] |
| $75,000 + | 9.5 | (6.4-14.0) | 7.9 | (4.8-12.7) |

[a] Estimated proportion of Michigan children aged 0-17 years who were ever told by a doctor, nurse or other health professional that they had asthma, using proxy information from the adult respondent. (N = 1,514).
[b] Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 1,435)
[c] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

| **Table 27: Chronic Obstructive Pulmonary Disease (COPD)**<br>**2022 Michigan BRFS** | | |
|---|---|---|
| | **Ever Told COPD, Emphysema or Chronic Bronchitis[a]** | |
| | **%** | **95% Confidence Interval** |
| **Total** | **8.9** | **(8.2-9.6)** |
| **Age** | | |
| 18 - 24 | --[b] | --[b] |
| 25 - 34 | 3.8 | (2.5-5.6) |
| 35 - 44 | 4.7 | (3.3-6.6) |
| 45 - 54 | 8.9 | (7.2-11.0) |
| 55 - 64 | 14.2 | (12.3-16.3) |
| 65 - 75 | 15.3 | (13.5-17.3) |
| 75 + | 13.7 | (11.6-15.9) |
| **Gender** | | |
| Male | 7.3 | (6.4-8.3) |
| Female | 10.5 | (9.5-11.5) |
| **Race/Ethnicity** | | |
| White/Non-Hispanic | 8.7 | (7.9-9.5) |
| Black/Non-Hispanic | 12.4 | (10.2-15.0) |
| Other/Non-Hispanic | 8.5 | (5.9-12.0) |
| Hispanic | --[b] | --[b] |
| **Education** | | |
| Less than high school | 16.6 | (13.0-20.9) |
| High school graduate | 11.3 | (9.9-12.9) |
| Some college | 9.2 | (8.1-10.4) |
| College graduate | 3.6 | (3.1-4.3) |
| **Household Income** | | |
| < $20,000 | 22.9 | (19.3-27.0) |
| $20,000 - $34,999 | 14.8 | (12.6-17.2) |
| $35,000 - $49,999 | 9.5 | (7.5-12.1) |
| $50,000 - $74,999 | 6.4 | (5.1-8.1) |
| $75,000 + | 4.0 | (3.2-4.8) |

[a] Among all adults, the proportion who reported ever being told by a doctor that they had chronic obstructive pulmonary disease (COPD), emphysema or chronic bronchitis. (N = 10,001)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

| **Table 28: Arthritis**<br>**2022 Michigan BRFS** | | |
|---|---|---|
| **Demographic Characteristics** | **Ever Told Arthritis[a]** | |
| | **%** | **95% Confidence Interval** |
| **Total** | **30.1** | **(29.1-31.2)** |
| **Age** | | |
| 18 - 24 | 4.0 | (2.5-6.2) |
| 25 - 34 | 7.6 | (5.7-9.9) |
| 35 - 44 | 19.8 | (17.0-22.8) |
| 45 - 54 | 29.6 | (26.8-32.5) |
| 55 - 64 | 42.6 | (39.9-45.3) |
| 65 - 75 | 53.4 | (50.9-55.9) |
| 75 + | 61.2 | (58.2-64.1) |
| **Gender** | | |
| Male | 24.9 | (23.5-26.4) |
| Female | 35.1 | (33.5-36.7) |
| **Race/Ethnicity** | | |
| White/Non-Hispanic | 31.8 | (30.6-33.1) |
| Black/Non-Hispanic | 30.8 | (27.5-34.4) |
| Other/Non-Hispanic | 17.4 | (13.6-22.0) |
| Hispanic | 21.7 | (16.6-27.8) |
| **Education** | | |
| Less than high school | 32.7 | (27.6-38.3) |
| High school graduate | 29.5 | (27.6-31.6) |
| Some college | 34.9 | (32.8-37.0) |
| College graduate | 24.1 | (22.8-25.6) |
| **Household Income** | | |
| < $20,000 | 40.6 | (36.2-45.1) |
| $20,000 - $34,999 | 37.5 | (34.3-40.8) |
| $35,000 - $49,999 | 35.8 | (32.3-39.3) |
| $50,000 - $74,999 | 29.3 | (26.4-32.2) |
| $75,000 + | 22.9 | (21.2-24.6) |

[a] Among all adults, the proportion who reported ever being told by a doctor that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. (N = 10,004)

## Table 29: Cardiovascular Disease
**2022 Michigan BRFS**

| | Ever Told Heart Attack[a] | | Had Told Angina or Coronary Heart Disease[b] | | Ever Told Stroke[c] | | Ever Told Any Cardiovascular Disease[d] | |
|---|---|---|---|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **4.7** | **(4.2-5.3)** | **4.6** | **(4.1-5.1)** | **3.4** | **(3.0-3.8)** | **9.8** | **(9.1-10.5)** |
| **Age** | | | | | | | | |
| 18 - 34 | --[e] | --[e] | --[e] | --[e] | 0.7 | (0.4-1.3) | 2.1 | (1.3-3.6) |
| 35 - 44 | --[e] | --[e] | 1.7 | (1.0-3.0) | 1.9 | (1.1-3.3) | 3.9 | (2.7-5.7) |
| 45 - 54 | 2.4 | (1.6-3.5) | 2.8 | (1.9-4.1) | 2.5 | (1.6-3.8) | 6.3 | (4.9-8.1) |
| 55 - 64 | 6.8 | (5.4-8.4) | 5.4 | (4.3-6.7) | 4.6 | (3.5-6.0) | 13.1 | (11.3-15.1) |
| 65 - 74 | 8.3 | (7.1-9.8) | 9.5 | (8.1-11.1) | 5.9 | (4.7-7.2) | 17.7 | (15.9-19.8) |
| 75 + | 14.1 | (12.1-16.5) | 14.3 | (12.2-16.6) | 8.9 | (7.4-10.7) | 28.5 | (25.8-31.5) |
| **Gender** | | | | | | | | |
| Male | 5.6 | (4.8-6.4) | 5.2 | (4.5-6.0) | 3.0 | (2.5-3.7) | 10.4 | (9.4-11.5) |
| Female | 3.9 | (3.2-4.7) | 4.0 | (3.4-4.6) | 3.7 | (3.1-4.4) | 9.2 | (8.3-10.3) |
| **Race/Ethnicity** | | | | | | | | |
| White non-Hispanic | 4.8 | (4.3-5.4) | 5.0 | (4.5-5.6) | 3.3 | (2.9-3.8) | 10.0 | (9.2-10.8) |
| Black non-Hispanic | 5.0 | (3.7-6.8) | 4.6 | (3.3-6.3) | 4.9 | (3.5-6.7) | 12.0 | (9.8-14.6) |
| Other non-Hispanic | --[e] | --[e] | --[e] | --[e] | --[e] | --[e] | 7.0 | (4.4-11.0) |
| Hispanic | --[e] | --[e] | --[e] | --[e] | --[e] | --[e] | 5.7 | (3.1-10.2) |
| **Education** | | | | | | | | |
| < High school | 8.1 | (5.7-11.4) | 5.9 | (4.0-8.8) | 3.7 | (2.2-6.3) | 13.8 | (10.5-18.0) |
| High school graduate | 5.4 | (4.3-6.8) | 5.3 | (4.3-6.5) | 4.1 | (3.3-5.0) | 11.4 | (10.0-13.1) |
| Some college | 4.6 | (3.9-5.4) | 4.8 | (4.1-5.6) | 3.7 | (3.0-4.4) | 10.1 | (9.0-11.3) |
| College graduate | 3.0 | (2.6-3.6) | 3.2 | (2.7-3.7) | 2.2 | (1.8-2.7) | 6.5 | (5.8-7.2) |
| **Household Income** | | | | | | | | |
| < $20,000 | 6.8 | (4.9-9.4) | 8.2 | (5.9-11.2) | 5.8 | (4.2-8.0) | 15.7 | (12.7-19.3) |
| $20,000 - $34,999 | 6.8 | (5.1-8.9) | 5.6 | (4.4-7.0) | 5.6 | (4.3-7.4) | 14.1 | (11.8-16.7) |
| $35,000 - $49,999 | 5.8 | (4.4-7.5) | 6.1 | (4.8-7.7) | 3.7 | (2.6-5.2) | 11.5 | (9.6-13.8) |
| $50,000 - $74,999 | 3.5 | (2.6-4.5) | 4.4 | (3.4-5.7) | 2.6 | (1.8-3.7) | 8.1 | (6.6-9.7) |
| $75,000 + | 3.2 | (2.5-3.9) | 2.9 | (2.3-3.6) | 1.8 | (1.3-2.4) | 6.1 | (5.2-7.1) |

Among all adults, the proportion who had ever been told by a doctor that…
[a] they had a heart attack or myocardial infarction (N = 9,958);
[b] they had angina or coronary heart disease (N = 9,959);
[c] they had a stroke. (N = 10,021)
[d] they had a heart attack, coronary heart disease or a stroke. (N = 9,923)
[e] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 30: Cancer
**2022 Michigan BRFS**

| | Ever Told Skin Cancer[a] | | Ever Told Any Other Types of Cancer[b] | | Ever Told Cancer[c] | |
|---|---|---|---|---|---|---|
| | % | 95% Confidence Interval | % | 95% Confidence Interval | % | 95% Confidence Interval |
| **Total** | **5.2** | **(4.8-5.7)** | **8.6** | **(8.1-9.3)** | **11.8** | **(11.1-12.5)** |
| **Age** | | | | | | |
| 18 - 34 | --[d] | --[d] | --[d] | --[d] | --[d] | --[d] |
| 35 - 44 | --[d] | --[d] | 2.3 | (1.5-3.5) | 3.1 | (2.2-4.4) |
| 45 - 54 | 2.8 | (2.0-3.8) | 5.8 | (4.6-7.3) | 7.6 | (6.2-9.2) |
| 55 - 64 | 6.7 | (5.5-8.2) | 10.8 | (9.3-12.5) | 14.8 | (13.0-16.7) |
| 65 - 74 | 11.4 | (10.0-13.0) | 18.5 | (16.7-20.5) | 25.6 | (23.5-27.8) |
| 75 + | 17.7 | (15.6-20.1) | 25.6 | (23.1-28.3) | 35.8 | (33.0-38.7) |
| **Gender** | | | | | | |
| Male | 4.9 | (4.3-5.5) | 7.8 | (7.0-8.7) | 10.7 | (9.8-11.7) |
| Female | 5.5 | (4.9-6.2) | 9.4 | (8.6-10.3) | 12.8 | (11.8-13.8) |
| **Race/Ethnicity** | | | | | | |
| White non-Hispanic | 6.8 | (6.2-7.4) | 10.4 | (9.6-11.2) | 14.4 | (13.5-15.3) |
| Black non-Hispanic | --[d] | --[d] | 5.2 | (4.0-6.8) | 6.0 | (4.7-7.6) |
| Other non-Hispanic | --[d] | --[d] | 1.7 | (1.0-3.1) | 2.6 | (1.6-4.2) |
| Hispanic | --[d] | --[d] | --[d] | --[d] | --[d] | --[d] |
| **Education** | | | | | | |
| Less than high school | --[d] | --[d] | 6.1 | (4.1-9.1) | 7.1 | (4.9-10.1) |
| High school graduate | 4.4 | (3.8-5.2) | 8.4 | (7.3-9.7) | 11.1 | (9.9-12.5) |
| Some college | 6.0 | (5.2-6.9) | 9.4 | (8.4-10.5) | 13.0 | (11.8-14.3) |
| College graduate | 6.0 | (5.4-6.7) | 8.9 | (8.1-9.8) | 12.6 | (11.6-13.6) |
| **Household Income** | | | | | | |
| < $20,000 | 3.0 | (2.0-4.5) | 7.0 | (5.3-9.2) | 8.8 | (6.8-11.2) |
| $20,000 - $34,999 | 4.4 | (3.5-5.5) | 9.7 | (8.2-11.5) | 12.2 | (10.5-14.1) |
| $35,000 - $49,999 | 7.1 | (5.5-9.1) | 11.3 | (9.3-13.8) | 15.2 | (12.9-17.8) |
| $50,000 - $74,999 | 5.5 | (4.5-6.7) | 11.3 | (9.6-13.3) | 14.6 | (12.7-16.8) |
| $75,000 + | 5.4 | (4.7-6.3) | 6.7 | (5.8-7.6) | 10.1 | (9.0-11.2) |

[a] Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 9,995)
[b] Among all adults, the proportion who reported ever being told by a doctor that they had a form of cancer other than skin cancer. (N = 10,007)
[c] Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer or any other type of cancer. (N = 9,984)
[d] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 31: Diabetes
**2022 Michigan BRFS**

| | Ever Told Diabetes[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **11.6** | **(10.9-12.4)** |
| **Age** | | |
| 18 – 24 | --[b] | --[b] |
| 25 – 34 | 2.4 | (1.3-4.3) |
| 35 – 44 | 5.1 | (3.8-6.9) |
| 45 – 54 | 11.2 | (9.1-13.7) |
| 55 – 64 | 17.5 | (15.4-19.8) |
| 65 – 74 | 21.8 | (19.7-24.0) |
| 75 + | 24.6 | (22.0-27.5) |
| **Gender** | | |
| Male | 10.6 | (9.7-11.6) |
| Female | 12.6 | (11.5-13.8) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 11.4 | (10.6-12.3) |
| Black non-Hispanic | 16.3 | (13.8-19.2) |
| Other non-Hispanic | 6.8 | (4.4-10.4) |
| Hispanic | 9.9 | (6.7-14.3) |
| **Education** | | |
| Less than high school | 16.2 | (12.3-21.0) |
| High school graduate | 11.9 | (10.6-13.3) |
| Some college | 13.6 | (12.2-15.1) |
| College graduate | 7.5 | (6.7-8.4) |
| **Household Income** | | |
| < $20,000 | 18.2 | (14.8-22.1) |
| $20,000 - $34,999 | 16.8 | (14.5-19.4) |
| $35,000 - $49,999 | 14.2 | (11.8-17.0) |
| $50,000 - $74,999 | 11.1 | (9.2-13.3) |
| $75,000 + | 7.5 | (6.4-8.7) |

[a] Among all adults, the proportion who reported that they were ever told by a doctor that they had diabetes. Adults told they have prediabetes and women who had diabetes only during pregnancy were classified as not having been diagnosed. (N = 10,042)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

## Table 32: Kidney Disease
**2022 Michigan BRFS**

| | Ever Told Kidney Disease[a] | |
|---|---|---|
| | **%** | **95% Confidence Interval** |
| **Total** | **4.1** | **(3.6-4.6)** |
| **Age** | | |
| 18 – 24 | --[b] | --[b] |
| 25 – 34 | --[b] | ---[b] |
| 35 – 44 | --[b] | ---[b] |
| 45 – 54 | 2.9 | (2.0-4.4) |
| 55 – 64 | 4.6 | (3.6-6.0) |
| 65 – 74 | 7.0 | (5.9-8.4) |
| 75 + | 12.2 | (10.2-14.6) |
| **Gender** | | |
| Male | 3.3 | (2.7-3.9) |
| Female | 4.9 | (4.1-5.7) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 4.2 | (3.7-4.8) |
| Black non-Hispanic | 4.1 | (3.0-5.4) |
| Other non-Hispanic | --[b] | ---[b] |
| Hispanic | --[b] | ---[b] |
| **Education** | | |
| Less than high school | 7.7 | (5.1-11.4) |
| High school graduate | 3.9 | (3.1-4.7) |
| Some college | 4.2 | (3.4-5.2) |
| College graduate | 3.0 | (2.5-3.6) |
| **Household Income** | | |
| < $20,000 | 6.4 | (4.4-9.1) |
| $20,000 - $34,999 | 6.2 | (4.7-8.1) |
| $35,000 - $49,999 | 4.6 | (3.3-6.2) |
| $50,000 - $74,999 | 3.8 | (2.7-5.2) |
| $75,000 + | 2.5 | (1.9-3.4) |

[a] Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease. (N = 10,020)
[b] Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

| **Table 33: Depression**<br>**2022 Michigan BRFS** | | |
|---|---|---|
| | **Ever Told Depression[a]** | |
| | **%** | **95% Confidence Interval** |
| **Total** | **23.0** | **(21.9-24.1)** |
| **Age** | | |
| 18 – 24 | 29.5 | (25.1-34.3) |
| 25 – 34 | 27.4 | (24.2-30.9) |
| 35 – 44 | 27.6 | (24.6-30.9) |
| 45 – 54 | 24.1 | (21.5-26.8) |
| 55 – 64 | 22.3 | (20.1-24.6) |
| 65 – 74 | 16.5 | (14.8-18.3) |
| 75 + | 12.3 | (10.5-14.4) |
| **Gender** | | |
| Male | 15.3 | (14.0-16.7) |
| Female | 30.3 | (28.7-32.0) |
| **Race/Ethnicity** | | |
| White non-Hispanic | 23.8 | (22.6-25.1) |
| Black non-Hispanic | 17.5 | (14.8-20.6) |
| Other non-Hispanic | 22.1 | (17.6-27.4) |
| Hispanic | 27.7 | (21.6-34.7) |
| **Education** | | |
| Less than high school | 30.6 | (25.2-36.5) |
| High school graduate | 22.6 | (20.6-24.8) |
| Some college | 24.6 | (22.7-26.6) |
| College graduate | 19.1 | (17.7-20.6) |
| **Household Income** | | |
| < $20,000 | 37.6 | (33.2-42.3) |
| $20,000 - $34,999 | 28.4 | (25.4-31.6) |
| $35,000 - $49,999 | 25.4 | (22.1-29.0) |
| $50,000 - $74,999 | 22.2 | (19.3-25.3) |
| $75,000 + | 15.9 | (14.3-17.6) |

[a] Among all adults, the proportion who reported ever being told by a doctor that they had a depressive disorder including depression, major depression, dysthymia, or minor depression. (N = 10,003)