

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

**State of Michigan**

**Selected Tables**

**Michigan Behavioral Risk Factor Survey**

**2013**

Chronic Disease Epidemiology Section  
Lifecourse Epidemiology and Genomics Division  
Bureau of Disease Control, Prevention, and Epidemiology  
Michigan Department of Community Health

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## Introduction

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

In 2013, the total sample size of completed interviews for the core survey was 12,759 (land line = 8,762; cell phone = 3,997) which consisted of 10,643 White, non-Hispanics, 1,051 Black, non-Hispanics, 584 Other/Multiracial, non-Hispanics, and 256 Hispanics. Race/ethnicity was not available for 225 respondents, thus these individuals were excluded from this analysis. Due to relatively small racial-ethnic subgroup sample sizes we were required to combine demographic groups in this analysis. Some of the estimates for these racial-ethnic subgroups are relatively imprecise (i.e., have large confidence intervals) and should be used with caution. Furthermore, only comparisons between estimates with non-overlapping 95% confidence intervals should be considered significantly different.

For the 2013 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. In addition, census tracts with a high population density of African Americans were oversampled within the land line portion of the survey. The sample of cell phone numbers used within the 2013 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 2013 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 2011-2012 and not to Michigan BRFSS estimates from years prior to 2011.

If you have any questions regarding any of the estimates within the following tables, please contact Chris Fussman at MDCH, by phone, (517) 335-8144, or by email, [MIBRFSS@michigan.gov](mailto:MIBRFSS@michigan.gov).

**Table 1: Fair or Poor General Health<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>17.7</b>           | <b>(16.8-18.7)</b>      | <b>16.0</b>         | <b>(15.0-16.9)</b>      | <b>25.5</b>         | <b>(22.0-29.3)</b>      | <b>16.8</b>                     | <b>(13.2-21.1)</b>      | <b>23.6</b>     | <b>(17.7-30.7)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 12.4                  | (11.1-13.8)             | 10.8                | (9.5-12.3)              | 17.8                | (13.7-22.9)             | 9.9                             | (6.7-14.4)              | 20.0            | (13.2-29.2)             |
| 50 +                         | 23.2                  | (21.9-24.6)             | 20.8                | (19.5-22.1)             | 36.7                | (31.4-42.4)             | 32.0                            | (24.2-40.9)             | 33.6            | (23.5-45.4)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 17.3                  | (15.9-18.7)             | 15.4                | (14.1-16.9)             | 27.4                | (21.9-33.7)             | 16.1                            | (11.4-22.1)             | 18.4            | (11.5-28.3)             |
| Female                       | 18.1                  | (16.9-19.4)             | 16.4                | (15.2-17.8)             | 23.8                | (19.6-28.5)             | 17.5                            | (12.5-24.0)             | 28.2            | (19.5-38.9)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 25.4                  | (23.7-27.3)             | 23.2                | (21.4-25.1)             | 34.1                | (28.4-40.3)             | 26.1                            | (18.7-35.2)             | 29.4            | (20.4-40.3)             |
| Some college or more         | 11.9                  | (11.0-12.8)             | 11.0                | (10.1-12.0)             | 16.2                | (12.9-20.0)             | 12.2                            | (8.6-16.9)              | 16.9            | (10.4-26.1)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 28.8                  | (26.9-30.7)             | 27.0                | (25.0-29.1)             | 33.0                | (28.0-38.5)             | 25.9                            | (19.4-33.7)             | 37.7            | (27.3-49.3)             |
| \$35,000 +                   | 9.7                   | (8.7-10.7)              | 9.0                 | (8.1-10.1)              | 14.2                | (9.8-20.1)              | 12.4                            | (7.9-19.1)              | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> The proportion who reported that their health, in general, was either fair or poor.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 2: Poor Physical Health on at Least 14 Days in the Past Month<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>12.7</b>           | <b>(12.0-13.6)</b>      | <b>11.8</b>         | <b>(11.0-12.6)</b>      | <b>16.7</b>         | <b>(13.8-20.1)</b>      | <b>12.9</b>                     | <b>(9.7-16.8)</b>       | <b>15.3</b>     | <b>(10.3-22.1)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 8.7                   | (7.6-9.9)               | 7.8                 | (6.7-9.1)               | 12.6                | (9.2-17.0)              | 7.0                             | (4.3-11.2)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 17.1                  | (15.9-18.3)             | 15.7                | (14.5-16.8)             | 23.2                | (18.5-28.6)             | 25.8                            | (18.7-34.3)             | 27.8            | (17.9-40.5)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 13.0                  | (11.7-14.3)             | 11.1                | (9.9-12.4)              | 21.2                | (16.2-27.2)             | 14.5                            | (9.9-20.7)              | 16.4            | (9.5-27.0)              |
| Female                       | 12.5                  | (11.6-13.6)             | 12.4                | (11.3-13.5)             | 12.9                | (10.0-16.4)             | 11.2                            | (7.5-16.5)              | 14.2            | (8.0-24.0)              |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 17.2                  | (15.7-18.8)             | 16.0                | (14.4-17.6)             | 21.5                | (16.8-27.0)             | 17.5                            | (11.6-25.6)             | 21.8            | (14.1-32.2)             |
| Some college or more         | 9.3                   | (8.5-10.2)              | 9.0                 | (8.2-9.8)               | 11.6                | (8.6-15.3)              | 10.6                            | (7.2-15.2)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 21.3                  | (19.6-23.1)             | 20.3                | (18.5-22.2)             | 22.8                | (18.4-27.9)             | 24.4                            | (17.8-32.5)             | 26.2            | (17.0-38.1)             |
| \$35,000 +                   | 6.9                   | (6.1-7.8)               | 6.7                 | (6.0-7.6)               | 8.9                 | (5.5-14.1)              | 7.5                             | (4.1-13.2)              | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

<sup>c</sup> 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<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>12.0</b>           | <b>(11.2-12.8)</b>      | <b>11.5</b>         | <b>(10.6-12.4)</b>      | <b>15.8</b>         | <b>(13.0-19.1)</b>      | <b>8.6</b>                      | <b>(6.4-11.5)</b>       | <b>13.0</b>     | <b>(8.5-19.4)</b>       |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 13.0                  | (11.8-14.4)             | 13.0                | (11.6-14.5)             | 15.2                | (11.7-19.5)             | 6.6                             | (4.5-9.6)               | 14.3            | (8.7-22.6)              |
| 50 +                         | 10.9                  | (9.9-12.0)              | 10.0                | (9.1-11.0)              | 17.0                | (12.6-22.5)             | 13.2                            | (8.5-20.1)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 10.7                  | (9.5-12.0)              | 9.7                 | (8.5-11.1)              | 17.6                | (13.1-23.1)             | 8.1                             | (5.0-12.9)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 13.2                  | (12.1-14.3)             | 13.1                | (11.9-14.3)             | 14.3                | (11.0-18.3)             | 9.1                             | (6.3-12.9)              | 17.0            | (10.2-26.9)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 15.8                  | (14.2-17.4)             | 15.0                | (13.4-16.7)             | 19.1                | (14.6-24.5)             | 11.6                            | (7.3-17.9)              | 18.7            | (11.3-29.4)             |
| Some college or more         | 9.2                   | (8.3-10.1)              | 9.0                 | (8.1-10.0)              | 12.2                | (9.3-15.9)              | 7.1                             | (4.8-10.4)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 18.9                  | (17.3-20.7)             | 18.5                | (16.7-20.5)             | 21.1                | (16.9-26.0)             | 17.2                            | (12.0-23.8)             | 16.9            | (9.9-27.4)              |
| \$35,000 +                   | 7.1                   | (6.2-8.0)               | 7.0                 | (6.2-8.0)               | 8.2                 | (5.1-12.9)              | 4.6                             | (2.6-8.0)               | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 4: Activity Limitation on at Least 14 Days in the Past Month<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>8.8</b>            | <b>(8.1-9.5)</b>        | <b>7.9</b>          | <b>(7.2-8.6)</b>        | <b>12.9</b>         | <b>(10.4-15.8)</b>      | <b>9.5</b>                      | <b>(7.0-12.7)</b>       | <b>10.5</b>     | <b>(6.2-17.2)</b>       |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 6.9                   | (5.9-8.0)               | 6.1                 | (5.1-7.3)               | 9.9                 | (7.0-13.9)              | 7.4                             | (4.6-11.7)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 10.8                  | (9.9-11.8)              | 9.7                 | (8.8-10.6)              | 17.2                | (13.3-22.1)             | 14.4                            | (9.9-20.5)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 9.2                   | (8.1-10.3)              | 7.9                 | (6.9-9.1)               | 16.3                | (12.2-21.5)             | 11.4                            | (7.5-16.8)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 8.5                   | (7.6-9.4)               | 7.9                 | (7.0-8.9)               | 9.8                 | (7.2-13.4)              | 7.6                             | (4.9-11.6)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 12.1                  | (10.8-13.6)             | 11.1                | (9.7-12.6)              | 16.4                | (12.4-21.5)             | 9.5                             | (5.9-15.0)              | 15.3            | (8.8-25.5)              |
| Some college or more         | 6.2                   | (5.6-7.0)               | 5.7                 | (5.1-6.5)               | 8.7                 | (6.3-11.9)              | 9.5                             | (6.5-13.8)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 16.3                  | (14.8-18.0)             | 15.1                | (13.4-16.9)             | 19.1                | (15.1-23.9)             | 19.4                            | (13.8-26.7)             | 19.2            | (10.9-31.6)             |
| \$35,000 +                   | 3.9                   | (3.4-4.6)               | 3.8                 | (3.2-4.5)               | 4.9                 | (2.8-8.5)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups

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

**Table 5: Disability<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>25.5</b>           | <b>(24.5-26.6)</b>      | <b>25.0</b>         | <b>(23.9-26.1)</b>      | <b>30.0</b>         | <b>(26.3-34.0)</b>      | <b>21.9</b>                     | <b>(17.8-26.6)</b>      | <b>18.9</b> | <b>(13.5-26.0)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 16.9                  | (15.4-18.4)             | 16.6                | (15.0-18.2)             | 20.7                | (16.2-26.1)             | 13.2                            | (9.3-18.3)              | 14.1        | (8.2-23.3)              |
| 50 +                         | 34.6                  | (33.2-36.1)             | 33.2                | (31.8-34.6)             | 43.8                | (38.3-49.6)             | 40.4                            | (32.0-49.5)             | 33.0        | (22.6-45.3)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 25.8                  | (24.2-27.4)             | 25.1                | (23.5-26.9)             | 31.7                | (25.9-38.2)             | 22.4                            | (16.7-29.2)             | 16.9        | (9.9-27.4)              |
| Female                       | 25.2                  | (23.9-26.6)             | 24.9                | (23.5-26.4)             | 28.5                | (23.9-33.5)             | 21.3                            | (15.9-28.0)             | 20.9        | (13.2-31.3)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 30.5                  | (28.7-32.5)             | 29.4                | (27.5-31.4)             | 37.4                | (31.3-43.9)             | 33.1                            | (24.6-42.7)             | 23.5        | (15.2-34.5)             |
| Some college or more         | 21.5                  | (20.3-22.7)             | 22.1                | (20.8-23.3)             | 21.8                | (18.1-26.1)             | 16.1                            | (12.1-21.2)             | 13.9        | (7.9-23.3)              |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 36.7                  | (34.8-38.8)             | 37.0                | (34.8-39.2)             | 38.1                | (32.8-43.7)             | 40.4                            | (31.9-49.5)             | 24.3        | (15.5-36.0)             |
| \$35,000 +                   | 17.1                  | (16.0-18.3)             | 17.4                | (16.2-18.7)             | 17.2                | (12.5-23.0)             | 12.0                            | (7.9-17.8)              | 15.5        | (8.6-26.4)              |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 6: Obesity<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>31.5</b>           | <b>(30.4-32.6)</b>      | <b>30.6</b>         | <b>(29.4-31.8)</b>      | <b>39.2</b>         | <b>(35.2-43.4)</b>      | <b>20.0</b>                     | <b>(16.0-24.7)</b>      | <b>32.7</b> | <b>(26.1-40.0)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 28.8                  | (27.1-30.6)             | 27.6                | (25.8-29.6)             | 40.1                | (34.4-46.0)             | 17.9                            | (13.0-24.1)             | 24.1        | (17.2-32.8)             |
| 50 +                         | 34.1                  | (32.7-35.6)             | 33.4                | (31.9-34.9)             | 38.0                | (32.8-43.5)             | 24.3                            | (18.0-31.9)             | 57.3        | (44.8-69.0)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 31.1                  | (29.4-32.8)             | 30.8                | (29.1-32.6)             | 34.8                | (28.8-41.3)             | 20.3                            | (15.0-27.0)             | 31.1        | (22.5-41.3)             |
| Female                       | 31.9                  | (30.4-33.5)             | 30.3                | (28.8-32.0)             | 43.3                | (38.1-48.7)             | 19.6                            | (14.2-26.5)             | 34.3        | (24.8-45.1)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 32.1                  | (30.2-34.1)             | 31.9                | (29.9-33.9)             | 33.1                | (27.3-39.5)             | 25.8                            | (18.4-35.0)             | 36.6        | (26.7-47.8)             |
| Some college or more         | 30.8                  | (29.5-32.2)             | 29.7                | (28.3-31.2)             | 45.7                | (40.6-50.9)             | 17.1                            | (12.7-22.6)             | 28.8        | (20.9-38.3)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 35.6                  | (33.6-37.7)             | 34.1                | (32.0-36.4)             | 41.6                | (36.2-47.3)             | 25.7                            | (18.9-33.9)             | 40.6        | (30.2-52.0)             |
| \$35,000 +                   | 30.2                  | (28.7-31.7)             | 29.7                | (28.2-31.3)             | 43.1                | (36.4-50.1)             | 17.2                            | (12.1-23.9)             | 26.3        | (18.0-36.7)             |

Note: BMI, body mass index, is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)<sup>2</sup>]. Weight and height were self-reported. Pregnant women were excluded.

<sup>a</sup> The proportion of respondents whose BMI was greater than or equal to 30.0.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 7: No Health Care Coverage among Adults Aged 18 - 64 Years<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>17.4</b>           | <b>(16.3-18.6)</b>      | <b>15.4</b>         | <b>(14.2-16.6)</b>      | <b>26.4</b>         | <b>(22.4-30.9)</b>      | <b>16.9</b>                     | <b>(12.7-22.3)</b>      | <b>23.8</b>     | <b>(17.5-31.5)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 20.6                  | (19.0-22.3)             | 18.3                | (16.6-20.1)             | 31.0                | (25.8-36.8)             | 16.5                            | (11.8-22.7)             | 26.3            | (19.0-35.3)             |
| 50 - 64                      | 11.5                  | (10.2-13.1)             | 10.5                | (9.1-12.0)              | 16.0                | (11.2-22.3)             | 18.1                            | (10.0-30.5)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 21.0                  | (19.2-23.0)             | 17.8                | (15.9-19.9)             | 34.4                | (27.8-41.8)             | 23.3                            | (16.3-32.1)             | 31.3            | (21.5-43.1)             |
| Female                       | 13.8                  | (12.5-15.3)             | 12.8                | (11.4-14.3)             | 19.1                | (15.0-24.1)             | 9.7                             | (6.1-15.0)              | 17.3            | (10.2-27.7)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 23.6                  | (21.3-26.0)             | 21.7                | (19.3-24.3)             | 30.8                | (24.5-37.9)             | 23.6                            | (15.0-35.1)             | 24.1            | (15.4-35.6)             |
| Some college or more         | 13.2                  | (12.0-14.5)             | 11.5                | (10.3-12.8)             | 21.9                | (17.4-27.2)             | 13.3                            | (9.1-19.0)              | 22.4            | (14.3-33.3)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 31.5                  | (29.1-34.0)             | 29.3                | (26.7-32.1)             | 36.5                | (30.6-42.9)             | 32.2                            | (23.0-43.1)             | 36.4            | (25.6-48.8)             |
| \$35,000 +                   | 8.0                   | (6.9-9.2)               | 7.4                 | (6.3-8.8)               | 11.0                | (6.6-17.7)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | 14.9            | (8.0-26.0)              |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups

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

**Table 8: No Personal Health Care Provider<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>17.0</b>           | <b>(16.0-18.0)</b>      | <b>14.8</b>         | <b>(13.9-15.9)</b>      | <b>23.2</b>         | <b>(19.7-27.0)</b>      | <b>25.9</b>                     | <b>(20.7-32.0)</b>      | <b>22.4</b>     | <b>(16.8-29.2)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 25.7                  | (24.0-27.4)             | 23.5                | (21.7-25.4)             | 32.5                | (27.2-38.2)             | 33.7                            | (26.6-41.6)             | 27.9            | (20.6-36.5)             |
| 50 +                         | 7.1                   | (6.3-8.0)               | 6.5                 | (5.8-7.4)               | 9.7                 | (6.6-14.1)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 22.9                  | (21.3-24.6)             | 19.9                | (18.2-21.6)             | 34.4                | (28.3-41.0)             | 31.2                            | (23.8-39.8)             | 29.9            | (21.2-40.2)             |
| Female                       | 11.4                  | (10.3-12.6)             | 10.1                | (9.0-11.3)              | 13.6                | (10.4-17.6)             | 20.5                            | (13.7-29.4)             | 15.5            | (9.2-24.8)              |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 19.0                  | (17.3-20.9)             | 17.0                | (15.3-18.9)             | 26.0                | (20.7-32.2)             | 26.7                            | (18.0-37.6)             | 20.3            | (13.1-30.1)             |
| Some college or more         | 15.1                  | (14.0-16.3)             | 13.4                | (12.2-14.6)             | 20.3                | (16.2-24.9)             | 25.7                            | (19.4-33.1)             | 23.8            | (16.2-33.7)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 23.5                  | (21.7-25.5)             | 21.3                | (19.3-23.3)             | 28.1                | (23.1-33.7)             | 31.9                            | (23.3-41.9)             | 28.6            | (20.1-39.0)             |
| \$35,000 +                   | 11.9                  | (10.7-13.1)             | 11.1                | (10.0-12.4)             | 12.6                | (8.6-18.3)              | 16.9                            | (11.5-24.2)             | 21.0            | (12.9-32.3)             |

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

<sup>b</sup> Michigan estimates include all racial groups.

<sup>c</sup> 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<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>15.5</b>           | <b>(14.5-16.4)</b>      | <b>13.7</b>         | <b>(12.7-14.7)</b>      | <b>22.5</b>         | <b>(19.2-26.3)</b>      | <b>15.7</b>                     | <b>(11.9-20.5)</b>      | <b>22.8</b>     | <b>(17.0-29.9)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 19.0                  | (17.5-20.6)             | 17.7                | (16.1-19.4)             | 23.5                | (18.9-28.8)             | 16.7                            | (12.0-22.7)             | 25.2            | (18.0-34.1)             |
| 50 +                         | 11.4                  | (10.3-12.4)             | 9.7                 | (8.8-10.8)              | 21.3                | (16.8-26.5)             | 14.8                            | (8.8-23.8)              | 16.0            | (9.0-26.9)              |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 15.1                  | (13.7-16.6)             | 12.8                | (11.4-14.4)             | 25.8                | (20.4-32.1)             | 16.9                            | (11.0-25.0)             | 17.0            | (10.3-26.6)             |
| Female                       | 15.9                  | (14.6-17.1)             | 14.4                | (13.2-15.8)             | 19.7                | (15.8-24.2)             | 14.6                            | (10.5-19.9)             | 28.3            | (19.6-38.9)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 18.3                  | (16.7-20.1)             | 16.5                | (14.8-18.3)             | 24.4                | (19.2-30.4)             | 21.4                            | (14.0-31.2)             | 23.0            | (15.2-33.2)             |
| Some college or more         | 13.1                  | (12.0-14.2)             | 11.7                | (10.6-12.8)             | 20.7                | (16.8-25.1)             | 13.0                            | (9.0-18.3)              | 21.5            | (13.8-31.9)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 26.9                  | (25.0-28.9)             | 25.1                | (23.0-27.3)             | 30.1                | (25.2-35.4)             | 30.3                            | (22.2-39.8)             | 37.3            | (27.3-48.7)             |
| \$35,000 +                   | 8.1                   | (7.1-9.1)               | 7.7                 | (6.8-8.7)               | 11.6                | (7.8-16.9)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

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

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 10: No Leisure Time Physical Activity<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>24.4</b>           | <b>(23.4-25.5)</b>      | <b>23.2</b>         | <b>(22.1-24.3)</b>      | <b>30.7</b>         | <b>(27.0-34.7)</b>      | <b>24.2</b>                     | <b>(19.1-30.3)</b>      | <b>26.1</b> | <b>(19.7-33.8)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 21.4                  | (19.8-23.1)             | 19.4                | (17.8-21.2)             | 31.1                | (25.8-36.9)             | 21.7                            | (15.3-29.9)             | 23.0        | (15.6-32.5)             |
| 50 +                         | 27.5                  | (26.1-28.8)             | 26.8                | (25.5-28.2)             | 30.1                | (25.2-35.5)             | 29.8                            | (22.1-38.9)             | 35.0        | (23.5-48.4)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 23.8                  | (22.2-25.4)             | 23.3                | (21.7-25.1)             | 26.3                | (20.8-32.6)             | 22.1                            | (16.0-29.7)             | 23.7        | (15.3-34.9)             |
| Female                       | 25.0                  | (23.7-26.4)             | 23.1                | (21.7-24.5)             | 34.5                | (29.7-39.6)             | 26.3                            | (18.6-35.9)             | 28.3        | (19.3-39.5)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 30.8                  | (28.9-32.8)             | 30.2                | (28.2-32.2)             | 33.2                | (27.4-39.7)             | 27.6                            | (19.2-37.9)             | 35.1        | (24.8-46.9)             |
| Some college or more         | 19.7                  | (18.5-20.9)             | 18.5                | (17.3-19.7)             | 28.4                | (23.9-33.3)             | 22.6                            | (16.4-30.3)             | 14.4        | (9.0-22.3)              |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 31.2                  | (29.3-33.2)             | 30.7                | (28.6-32.9)             | 33.6                | (28.3-39.2)             | 23.9                            | (17.3-32.2)             | 36.0        | (25.1-48.4)             |
| \$35,000 +                   | 19.5                  | (18.2-20.9)             | 18.5                | (17.2-19.8)             | 29.4                | (23.6-35.9)             | 24.0                            | (16.8-32.9)             | 16.3        | (9.6-26.3)              |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 11: Adequate Physical Activity<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>19.5</b>           | <b>(18.6-20.5)</b>      | <b>19.2</b>         | <b>(18.2-20.3)</b>      | <b>21.2</b>         | <b>(17.7-25.2)</b>      | <b>19.0</b>                     | <b>(14.8-24.0)</b>      | <b>20.5</b> | <b>(15.1-27.2)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 22.2                  | (20.6-23.9)             | 22.1                | (20.3-23.9)             | 22.9                | (17.7-29.0)             | 22.7                            | (17.0-29.8)             | 22.1        | (15.4-30.5)             |
| 50 +                         | 16.7                  | (15.6-17.8)             | 16.6                | (15.5-17.7)             | 19.0                | (15.0-23.8)             | 11.2                            | (7.4-16.5)              | 15.8        | (8.8-26.7)              |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 22.1                  | (20.6-23.8)             | 21.0                | (19.4-22.6)             | 27.3                | (21.2-34.2)             | 25.1                            | (18.4-33.2)             | 27.3        | (18.5-38.3)             |
| Female                       | 17.1                  | (15.9-18.4)             | 17.6                | (16.3-19.0)             | 16.1                | (12.4-20.6)             | 12.9                            | (8.7-18.7)              | 14.3        | (8.7-22.4)              |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 16.0                  | (14.3-17.7)             | 14.9                | (13.3-16.6)             | 21.1                | (15.4-28.0)             | 15.2                            | (9.6-23.2)              | 17.2        | (10.2-27.6)             |
| Some college or more         | 22.0                  | (20.8-23.3)             | 22.1                | (20.8-23.5)             | 21.3                | (17.4-25.8)             | 20.8                            | (15.5-27.3)             | 24.5        | (17.0-34.0)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 16.5                  | (14.9-18.2)             | 15.3                | (13.6-17.1)             | 18.7                | (14.5-23.8)             | 23.9                            | (16.3-33.6)             | 19.3        | (12.2-29.3)             |
| \$35,000 +                   | 21.6                  | (20.3-23.0)             | 21.8                | (20.4-23.2)             | 22.1                | (16.9-28.4)             | 18.4                            | (12.9-25.5)             | 20.3        | (12.7-30.9)             |

<sup>a</sup> The proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities **and** also participate in muscle strengthening activities on two or more days per week.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 12: Fruit Consumption (< 1 Time / Day)<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>37.7</b>           | <b>(36.5-38.9)</b>      | <b>37.4</b>         | <b>(36.1-38.7)</b>      | <b>37.7</b>         | <b>(33.7-41.9)</b>      | <b>41.5</b>                     | <b>(35.3-48.0)</b>      | <b>39.9</b> | <b>(32.7-47.6)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 41.1                  | (39.2-43.1)             | 41.1                | (39.0-43.3)             | 40.2                | (34.4-46.2)             | 44.6                            | (36.6-52.9)             | 39.5        | (30.8-48.9)             |
| 50 +                         | 34.3                  | (32.8-35.7)             | 34.0                | (32.5-35.5)             | 34.5                | (29.3-40.1)             | 35.9                            | (27.6-45.0)             | 41.1        | (29.2-54.1)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 42.4                  | (40.6-44.3)             | 42.4                | (40.5-44.4)             | 38.5                | (32.2-45.2)             | 46.5                            | (38.0-55.2)             | 47.8        | (37.1-58.7)             |
| Female                       | 33.4                  | (31.8-34.9)             | 32.7                | (31.1-34.4)             | 37.1                | (32.1-42.4)             | 36.2                            | (27.6-45.8)             | 32.8        | (23.6-43.5)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 42.2                  | (40.1-44.3)             | 42.2                | (40.0-44.5)             | 40.2                | (33.7-47.0)             | 47.2                            | (36.5-58.2)             | 45.0        | (34.0-56.4)             |
| Some college or more         | 34.5                  | (33.1-36.0)             | 34.2                | (32.7-35.7)             | 35.3                | (30.5-40.4)             | 38.7                            | (31.3-46.7)             | 34.6        | (25.8-44.6)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 41.6                  | (39.5-43.7)             | 42.5                | (40.1-44.8)             | 38.2                | (32.9-43.8)             | 45.3                            | (36.1-54.9)             | 39.7        | (29.3-51.1)             |
| \$35,000 +                   | 34.5                  | (32.9-36.2)             | 34.3                | (32.6-36.0)             | 33.6                | (27.3-40.5)             | 34.3                            | (26.0-43.6)             | 42.4        | (31.6-53.9)             |

<sup>a</sup> The proportion whose total reported consumption of fruits (including juice) was less than one time per day

<sup>b</sup> Michigan estimates include all racial groups.

**Table 13: Vegetable Consumption (< 1 Time / Day)<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>24.8</b>           | <b>(23.6-25.9)</b>      | <b>22.6</b>         | <b>(21.4-23.7)</b>      | <b>36.5</b>         | <b>(32.4-40.8)</b>      | <b>26.2</b>                     | <b>(20.9-32.4)</b>      | <b>29.5</b> | <b>(22.7-37.5)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 28.1                  | (26.3-30.0)             | 25.6                | (23.7-27.6)             | 40.0                | (34.1-46.2)             | 28.9                            | (21.8-37.1)             | 31.5        | (23.2-41.2)             |
| 50 +                         | 21.3                  | (20.0-22.6)             | 19.9                | (18.6-21.2)             | 31.4                | (26.4-37.0)             | 21.4                            | (14.7-30.0)             | 23.6        | (13.9-37.1)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 28.6                  | (26.9-30.4)             | 26.0                | (24.2-27.8)             | 42.9                | (36.3-49.9)             | 31.3                            | (23.9-39.7)             | 35.1        | (25.2-46.4)             |
| Female                       | 21.1                  | (19.8-22.6)             | 19.4                | (18.0-20.9)             | 31.0                | (26.2-36.2)             | 21.1                            | (13.9-30.7)             | 24.5        | (15.7-36.3)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 31.1                  | (29.1-33.2)             | 28.8                | (26.7-31.0)             | 40.9                | (34.3-47.8)             | 25.6                            | (17.8-35.4)             | 40.9        | (30.0-52.8)             |
| Some college or more         | 20.4                  | (19.1-21.7)             | 18.5                | (17.2-19.8)             | 32.2                | (27.3-37.5)             | 26.5                            | (19.8-34.5)             | 16.8        | (10.5-25.9)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 30.2                  | (28.2-32.3)             | 27.1                | (25.0-29.4)             | 41.1                | (35.5-47.0)             | 30.9                            | (22.7-40.6)             | 32.2        | (22.4-43.8)             |
| \$35,000 +                   | 19.4                  | (18.0-20.8)             | 18.6                | (17.2-20.1)             | 25.0                | (19.4-31.6)             | 19.6                            | (13.4-27.8)             | 24.3        | (15.5-36.0)             |

<sup>a</sup> The proportion whose total reported consumption of vegetables was less than one time per day.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 14: Fruit and Vegetable Consumption (≥ 5 Times / Day)<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>15.3</b>           | <b>(14.5-16.2)</b>      | <b>14.9</b>         | <b>(14.0-15.8)</b>      | <b>15.8</b>         | <b>(13.1-19.0)</b>      | <b>15.0</b>                     | <b>(11.2-19.9)</b>      | <b>19.3</b> | <b>(13.7-26.4)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 15.3                  | (14.0-16.7)             | 15.1                | (13.7-16.7)             | 15.7                | (12.1-20.1)             | 14.2                            | (9.5-20.6)              | 18.1        | (11.6-27.1)             |
| 50 +                         | 15.1                  | (14.1-16.1)             | 14.7                | (13.8-15.8)             | 16.0                | (12.1-20.9)             | 15.0                            | (10.0-22.0)             | 22.7        | (13.8-35.1)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 10.6                  | (9.5-11.8)              | 9.7                 | (8.6-10.9)              | 12.7                | (8.9-17.6)              | 12.2                            | (7.5-19.3)              | 18.5        | (11.2-29.1)             |
| Female                       | 19.7                  | (18.5-21.0)             | 19.8                | (18.5-21.2)             | 18.6                | (15.0-22.9)             | 17.8                            | (12.3-25.2)             | 20.0        | (12.5-30.4)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 11.5                  | (10.2-12.9)             | 10.2                | (8.9-11.6)              | 15.4                | (11.3-20.8)             | 12.1                            | (6.6-21.0)              | 18.5        | (10.7-30.1)             |
| Some college or more         | 17.9                  | (16.8-19.0)             | 18.1                | (17.0-19.4)             | 16.2                | (13.0-20.1)             | 16.5                            | (11.8-22.7)             | 19.0        | (12.5-27.7)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 13.3                  | (12.0-14.7)             | 12.5                | (11.1-14.0)             | 14.6                | (11.2-18.7)             | 19.2                            | (12.7-27.9)             | 14.9        | (8.8-24.2)              |
| \$35,000 +                   | 16.8                  | (15.6-18.0)             | 16.3                | (15.1-17.6)             | 20.2                | (15.1-26.6)             | 14.8                            | (9.6-22.3)              | 20.8        | (12.9-31.7)             |

<sup>a</sup> The proportion whose total reported consumption of fruits (including juice) and vegetables was five or more times per day.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 15: Current Smoking<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>21.4</b>           | <b>(20.3-22.5)</b>      | <b>20.6</b>         | <b>(19.5-21.7)</b>      | <b>25.9</b>         | <b>(22.2-30.1)</b>      | <b>22.7</b>                     | <b>(18.2-28.0)</b>      | <b>20.0</b>     | <b>(14.4-27.0)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 25.6                  | (23.9-27.4)             | 26.3                | (24.3-28.2)             | 26.3                | (21.2-32.2)             | 19.8                            | (14.6-26.4)             | 21.7            | (14.9-30.6)             |
| 50 +                         | 16.9                  | (15.7-18.2)             | 15.3                | (14.1-16.6)             | 26.0                | (21.0-31.7)             | 29.4                            | (21.5-38.8)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 24.7                  | (23.0-26.5)             | 23.4                | (21.6-25.3)             | 30.1                | (24.4-36.6)             | 28.3                            | (21.4-36.3)             | 24.4            | (16.0-35.3)             |
| Female                       | 18.3                  | (17.0-19.7)             | 17.9                | (16.6-19.3)             | 22.3                | (17.7-27.8)             | 16.8                            | (11.6-23.8)             | 16.0            | (9.4-25.8)              |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 29.3                  | (27.4-31.4)             | 28.0                | (25.9-30.1)             | 35.1                | (29.0-41.8)             | 37.7                            | (28.4-48.1)             | 24.7            | (16.4-35.6)             |
| Some college or more         | 15.6                  | (14.5-16.8)             | 15.6                | (14.4-16.8)             | 16.5                | (13.1-20.6)             | 15.0                            | (10.6-20.8)             | 14.8            | (8.4-24.8)              |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 31.2                  | (29.2-33.3)             | 31.2                | (29.0-33.6)             | 31.9                | (26.7-37.7)             | 35.5                            | (27.2-44.8)             | 23.7            | (15.1-35.2)             |
| \$35,000 +                   | 15.3                  | (14.0-16.6)             | 14.9                | (13.6-16.3)             | 17.7                | (12.6-24.4)             | 15.6                            | (10.3-23.0)             | 18.0            | (10.6-28.9)             |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 16: Any Alcohol Consumption<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>56.6</b>           | <b>(55.3-57.8)</b>      | <b>59.1</b>         | <b>(57.8-60.4)</b>      | <b>47.7</b>         | <b>(43.6-51.9)</b>      | <b>44.8</b>                     | <b>(38.8-50.9)</b>      | <b>52.9</b> | <b>(45.2-60.4)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 60.8                  | (58.9-62.8)             | 63.7                | (61.6-65.8)             | 53.2                | (47.2-59.0)             | 51.0                            | (43.0-58.9)             | 53.9        | (44.5-63.1)             |
| 50 +                         | 52.4                  | (50.9-53.9)             | 54.9                | (53.4-56.4)             | 39.6                | (34.2-45.3)             | 32.8                            | (25.3-41.2)             | 49.9        | (37.7-62.1)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 62.0                  | (60.1-63.8)             | 64.6                | (62.7-66.5)             | 50.9                | (44.3-57.4)             | 51.1                            | (42.6-59.4)             | 62.8        | (51.7-72.7)             |
| Female                       | 51.4                  | (49.8-53.1)             | 53.9                | (52.2-55.6)             | 45.0                | (39.9-50.2)             | 38.2                            | (30.1-47.0)             | 43.9        | (33.8-54.5)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 46.7                  | (44.6-48.8)             | 48.1                | (45.9-50.3)             | 43.2                | (37.0-49.7)             | 41.1                            | (31.3-51.6)             | 40.8        | (30.7-51.7)             |
| Some college or more         | 64.0                  | (62.5-65.4)             | 66.6                | (65.1-68.1)             | 52.2                | (47.1-57.3)             | 46.6                            | (39.3-54.2)             | 66.4        | (56.3-75.1)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 46.9                  | (44.8-49.0)             | 46.8                | (44.5-49.2)             | 47.4                | (41.9-53.1)             | 44.2                            | (35.4-53.4)             | 48.3        | (37.4-59.4)             |
| \$35,000 +                   | 66.2                  | (64.6-67.8)             | 68.9                | (67.2-70.4)             | 50.7                | (44.0-57.4)             | 50.7                            | (41.9-59.5)             | 59.0        | (47.3-69.9)             |

<sup>a</sup> The proportion who reported consuming at least one drink of any alcoholic beverage in the previous month.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 17: Heavy Drinking<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | 6.2                   | (5.7-6.9)               | 7.2                 | (6.5-7.9)               | 2.6                 | (1.6-4.2)               | 3.7                             | (2.3-6.0)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 6.9                   | (6.0-7.9)               | 8.4                 | (7.3-9.7)               | 2.2                 | (1.3-3.8)               | 3.8                             | (2.1-6.8)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 5.6                   | (5.0-6.4)               | 6.0                 | (5.4-6.8)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 6.9                   | (6.0-7.9)               | 7.9                 | (6.8-9.0)               | -- <sup>c</sup>     | -- <sup>c</sup>         | 5.5                             | (3.1-9.7)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 5.6                   | (5.0-6.4)               | 6.6                 | (5.7-7.5)               | 3.1                 | (1.8-5.5)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 6.2                   | (5.3-7.3)               | 7.1                 | (6.1-8.4)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 6.3                   | (5.7-7.1)               | 7.2                 | (6.4-8.1)               | 2.0                 | (1.1-3.6)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 6.2                   | (5.3-7.2)               | 7.2                 | (6.1-8.5)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 6.7                   | (5.9-7.5)               | 7.5                 | (6.6-8.5)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 18: Binge Drinking<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>18.9</b>           | <b>(17.9-19.9)</b>      | <b>19.5</b>         | <b>(18.5-20.6)</b>      | <b>14.9</b>         | <b>(12.0-18.2)</b>      | <b>17.0</b>                     | <b>(13.0-22.0)</b>      | <b>23.3</b>     | <b>(17.6-30.0)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 25.5                  | (23.9-27.2)             | 27.1                | (25.3-29.0)             | 18.6                | (14.4-23.7)             | 19.9                            | (14.5-26.7)             | 28.5            | (21.2-37.2)             |
| 50 +                         | 11.9                  | (11.0-13.0)             | 12.3                | (11.3-13.5)             | 9.9                 | (6.7-14.2)              | 11.4                            | (6.8-18.4)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 24.1                  | (22.6-25.7)             | 25.2                | (23.6-27.0)             | 16.5                | (12.1-22.0)             | 23.9                            | (17.8-31.3)             | 28.3            | (19.8-38.6)             |
| Female                       | 13.9                  | (12.8-15.2)             | 14.2                | (12.9-15.5)             | 13.5                | (10.0-17.9)             | 9.8                             | (5.3-17.4)              | 18.7            | (11.9-28.1)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 17.5                  | (16.0-19.2)             | 17.2                | (15.6-19.0)             | 17.9                | (13.4-23.5)             | 18.1                            | (11.6-27.1)             | 20.6            | (13.3-30.4)             |
| Some college or more         | 20.0                  | (18.8-21.3)             | 21.1                | (19.8-22.5)             | 11.9                | (8.8-15.9)              | 16.5                            | (11.7-22.7)             | 26.8            | (18.7-36.7)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 17.6                  | (16.1-19.3)             | 17.6                | (15.9-19.5)             | 16.9                | (13.1-21.6)             | 17.3                            | (11.4-25.3)             | 21.2            | (13.8-31.1)             |
| \$35,000 +                   | 21.1                  | (19.7-22.5)             | 21.8                | (20.3-23.3)             | 11.5                | (7.6-17.1)              | 20.0                            | (13.7-28.1)             | 27.1            | (18.4-38.1)             |

<sup>a</sup> The proportion who reported consuming five or more drinks per occasion at least once in the previous month.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 19: Seatbelt Use<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>89.6</b>           | <b>(88.8-90.4)</b>      | <b>90.1</b>         | <b>(89.2-90.9)</b>      | <b>89.0</b>         | <b>(86.0-91.4)</b>      | <b>87.1</b>                     | <b>(82.2-90.9)</b>      | <b>87.3</b>     | <b>(80.7-91.9)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 87.3                  | (85.8-88.6)             | 87.5                | (85.9-88.9)             | 87.8                | (83.3-91.3)             | 84.0                            | (76.8-89.2)             | 86.7            | (78.2-92.2)             |
| 50 +                         | 92.3                  | (91.5-93.1)             | 92.6                | (91.8-93.4)             | 90.3                | (86.1-93.3)             | 93.3                            | (88.9-96.1)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 86.8                  | (85.4-88.1)             | 87.0                | (85.6-88.4)             | 87.3                | (82.0-91.2)             | 89.1                            | (83.0-93.2)             | 83.3            | (71.9-90.7)             |
| Female                       | 92.2                  | (91.2-93.0)             | 93.0                | (92.0-93.9)             | 90.4                | (86.8-93.1)             | 85.2                            | (76.9-90.9)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 88.3                  | (86.8-89.7)             | 88.4                | (86.7-89.8)             | 90.2                | (85.3-93.5)             | 86.4                            | (78.0-92.0)             | 83.4            | (72.6-90.5)             |
| Some college or more         | 90.7                  | (89.7-91.6)             | 91.3                | (90.3-92.2)             | 87.8                | (83.7-90.9)             | 87.5                            | (80.9-92.0)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 88.2                  | (86.7-89.6)             | 87.9                | (86.1-89.5)             | 89.0                | (85.3-91.9)             | 87.2                            | (79.7-92.2)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 90.7                  | (89.5-91.7)             | 91.2                | (90.1-92.2)             | 88.5                | (82.0-92.8)             | 89.8                            | (82.1-94.4)             | 84.1            | (72.9-91.2)             |

<sup>a</sup> The proportion who reported always using a seatbelt when driving or riding in a car.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 20: Ever Told High Blood Pressure<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>34.6</b>           | <b>(33.5-35.7)</b>      | <b>34.3</b>         | <b>(33.2-35.5)</b>      | <b>42.0</b>         | <b>(38.1-46.0)</b>      | <b>24.8</b>                     | <b>(20.3-29.9)</b>      | <b>23.5</b> | <b>(17.9-30.2)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 17.6                  | (16.2-19.2)             | 16.8                | (15.3-18.5)             | 25.4                | (20.8-30.8)             | 12.2                            | (8.4-17.5)              | 12.5        | (7.4-20.4)              |
| 50 +                         | 53.0                  | (51.6-54.5)             | 51.2                | (49.7-52.7)             | 67.0                | (61.6-71.9)             | 49.6                            | (40.5-58.8)             | 54.6        | (42.6-66.1)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 37.2                  | (35.5-38.9)             | 37.3                | (35.5-39.2)             | 42.2                | (36.0-48.6)             | 28.2                            | (21.6-35.9)             | 25.6        | (17.3-36.1)             |
| Female                       | 32.2                  | (30.9-33.6)             | 31.5                | (30.1-33.0)             | 41.9                | (37.0-47.0)             | 21.2                            | (15.6-28.2)             | 21.6        | (14.8-30.5)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 40.0                  | (38.1-42.0)             | 39.7                | (37.6-41.8)             | 45.9                | (39.8-52.2)             | 36.2                            | (26.9-46.7)             | 29.0        | (20.3-39.6)             |
| Some college or more         | 30.5                  | (29.2-31.7)             | 30.7                | (29.4-32.1)             | 37.8                | (33.1-42.6)             | 19.1                            | (14.8-24.3)             | 17.1        | (11.5-24.8)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 39.8                  | (37.8-41.8)             | 39.8                | (37.6-42.0)             | 44.1                | (38.8-49.5)             | 36.1                            | (27.8-45.5)             | 24.6        | (16.5-34.9)             |
| \$35,000 +                   | 31.2                  | (29.8-32.7)             | 31.5                | (30.0-33.1)             | 39.8                | (33.5-46.5)             | 18.8                            | (13.6-25.5)             | 20.3        | (12.6-31.0)             |

<sup>a</sup> The proportion who reported that they were ever told by a doctor that they had high blood pressure (HBP). Women who had HBP only during pregnancy and adults who were borderline hypertensive were considered to not have been diagnosed.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 21: Cholesterol Ever Checked<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>83.2</b>           | <b>(82.1-84.2)</b>      | <b>84.5</b>         | <b>(83.3-85.5)</b>      | <b>80.3</b>         | <b>(76.5-83.7)</b>      | <b>75.7</b>                     | <b>(69.5-81.0)</b>      | <b>74.3</b>     | <b>(67.1-80.5)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 70.7                  | (68.8-72.5)             | 71.1                | (69.0-73.1)             | 71.5                | (65.6-76.8)             | 65.2                            | (56.9-72.8)             | 68.2            | (59.1-76.1)             |
| 50 +                         | 96.2                  | (95.5-96.8)             | 96.9                | (96.3-97.4)             | 92.6                | (88.6-95.3)             | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 81.4                  | (79.7-82.9)             | 82.5                | (80.8-84.2)             | 80.2                | (74.1-85.1)             | 72.0                            | (63.3-79.3)             | 72.6            | (62.0-81.1)             |
| Female                       | 84.9                  | (83.5-86.2)             | 86.3                | (84.8-87.6)             | 80.5                | (75.2-84.8)             | 79.8                            | (70.3-86.8)             | 75.9            | (65.4-84.0)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 79.2                  | (77.3-81.1)             | 80.6                | (78.5-82.5)             | 77.2                | (71.0-82.5)             | 67.5                            | (56.5-76.8)             | 74.8            | (64.0-83.2)             |
| Some college or more         | 85.8                  | (84.6-87.0)             | 87.0                | (85.7-88.2)             | 83.5                | (78.8-87.4)             | 79.9                            | (72.2-86.0)             | 73.5            | (63.2-81.7)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 77.6                  | (75.6-79.5)             | 78.5                | (76.2-80.6)             | 78.7                | (73.4-83.2)             | 69.8                            | (60.1-78.0)             | 67.3            | (55.8-77.0)             |
| \$35,000 +                   | 88.6                  | (87.3-89.7)             | 89.1                | (87.7-90.3)             | 89.9                | (84.3-93.7)             | 85.2                            | (76.6-91.1)             | 77.8            | (66.9-85.9)             |

<sup>a</sup> The proportion who reported ever having had their blood cholesterol checked.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 22: Ever Told High Cholesterol<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>40.6</b>           | <b>(39.4-41.8)</b>      | <b>42.2</b>         | <b>(40.9-43.5)</b>      | <b>36.1</b>         | <b>(32.0-40.3)</b>      | <b>31.7</b>                     | <b>(26.0-38.0)</b>      | <b>33.3</b> | <b>(25.9-41.5)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 23.8                  | (21.9-25.7)             | 24.7                | (22.7-26.8)             | 20.5                | (15.7-26.4)             | 16.6                            | (11.4-23.6)             | 26.8        | (18.4-37.3)             |
| 50 +                         | 53.9                  | (52.4-55.4)             | 54.2                | (52.6-55.7)             | 52.9                | (47.2-58.6)             | 53.3                            | (43.7-62.7)             | 47.5        | (35.0-60.4)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 43.5                  | (41.6-45.4)             | 45.4                | (43.3-47.4)             | 34.1                | (27.8-41.0)             | 38.8                            | (29.9-48.5)             | 41.9        | (30.3-54.4)             |
| Female                       | 38.0                  | (36.4-39.6)             | 39.3                | (37.6-41.0)             | 37.8                | (32.8-43.1)             | 24.9                            | (18.4-32.8)             | 25.8        | (17.6-36.1)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 45.1                  | (43.0-47.3)             | 47.1                | (44.9-49.4)             | 37.5                | (31.1-44.4)             | 51.2                            | (39.0-63.4)             | 35.4        | (24.5-48.1)             |
| Some college or more         | 37.7                  | (36.3-39.2)             | 39.1                | (37.6-40.7)             | 34.8                | (30.0-39.9)             | 23.3                            | (18.0-29.6)             | 31.4        | (22.5-41.9)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 43.7                  | (41.5-46.0)             | 46.4                | (44.0-48.9)             | 36.6                | (31.1-42.5)             | 42.6                            | (31.9-54.1)             | 35.7        | (24.5-48.7)             |
| \$35,000 +                   | 38.6                  | (37.0-40.2)             | 39.6                | (37.9-41.3)             | 35.7                | (29.6-42.4)             | 28.2                            | (21.3-36.4)             | 33.6        | (23.0-46.1)             |

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

<sup>b</sup> Michigan estimates include all racial groups.

**Table 23: No Routine Checkup in Past Year<sup>a</sup> by Race-Ethnicity**  
**2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>30.1</b>           | <b>(29.0-31.3)</b>      | <b>30.5</b>         | <b>(29.3-31.7)</b>      | <b>22.6</b>         | <b>(19.5-26.2)</b>      | <b>40.6</b>                     | <b>(34.7-46.9)</b>      | <b>36.4</b> | <b>(29.8-43.7)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 38.8                  | (36.9-40.7)             | 40.5                | (38.5-42.6)             | 27.5                | (22.8-32.7)             | 47.8                            | (40.0-55.8)             | 37.7        | (29.6-46.6)             |
| 50 +                         | 21.0                  | (19.8-22.3)             | 21.2                | (19.9-22.5)             | 15.7                | (12.0-20.2)             | 28.2                            | (20.1-38.0)             | 32.8        | (22.2-45.4)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 35.0                  | (33.2-36.8)             | 35.3                | (33.4-37.3)             | 27.1                | (21.9-33.0)             | 41.3                            | (33.2-49.9)             | 45.4        | (35.3-55.9)             |
| Female                       | 25.6                  | (24.2-27.0)             | 26.0                | (24.5-27.5)             | 18.8                | (15.1-23.1)             | 39.9                            | (31.5-49.0)             | 28.3        | (20.2-38.2)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 30.1                  | (28.3-32.1)             | 31.3                | (29.2-33.4)             | 20.5                | (16.0-25.9)             | 42.8                            | (32.7-53.5)             | 35.5        | (26.2-46.1)             |
| Some college or more         | 30.1                  | (28.7-31.5)             | 29.9                | (28.5-31.5)             | 25.1                | (20.9-29.8)             | 39.6                            | (32.4-47.3)             | 36.7        | (27.7-46.6)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 34.1                  | (32.1-36.2)             | 35.8                | (33.5-38.1)             | 25.2                | (20.7-30.3)             | 41.4                            | (32.3-51.2)             | 42.4        | (32.2-53.4)             |
| \$35,000 +                   | 28.4                  | (26.9-29.9)             | 28.4                | (26.9-30.1)             | 20.3                | (15.5-26.0)             | 38.9                            | (30.7-47.7)             | 33.0        | (23.7-43.9)             |

<sup>a</sup> The proportion who reported that they did not have a routine checkup in the past year.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 24: Had Sigmoidoscopy in Past 5 Years or Colonoscopy in Past 10 Years among Adults Aged 50 and Older<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>68.7</b>           | <b>(67.3-70.1)</b>      | <b>69.6</b>         | <b>(68.1-71.0)</b>      | <b>66.1</b>         | <b>(60.1-71.6)</b>      | <b>56.0</b>                     | <b>(46.0-65.6)</b>      | <b>71.0</b>     | <b>(58.1-81.2)</b>      |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 67.9                  | (65.6-70.2)             | 69.3                | (67.0-71.5)             | 64.0                | (54.1-72.9)             | 52.4                            | (37.4-66.9)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 69.4                  | (67.6-71.2)             | 69.8                | (67.8-71.7)             | 67.9                | (60.9-74.2)             | 60.0                            | (47.9-71.0)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 65.1                  | (62.7-67.4)             | 65.7                | (63.2-68.0)             | 62.0                | (52.7-70.5)             | 52.9                            | (35.5-69.7)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 72.1                  | (70.3-73.8)             | 72.8                | (70.9-74.5)             | 70.7                | (63.2-77.2)             | 58.2                            | (46.8-68.7)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 62.4                  | (59.8-64.9)             | 62.9                | (60.2-65.6)             | 59.1                | (50.9-66.8)             | 50.5                            | (36.1-64.8)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 73.0                  | (71.0-74.8)             | 73.3                | (71.3-75.2)             | 74.5                | (64.8-82.2)             | 62.8                            | (48.5-75.1)             | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> Among those aged 50 years and older, the proportion who had a sigmoidoscopy within the past five years or a colonoscopy within the past ten years.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 25: Had Flu Vaccine in Past Year among Adults 65 Years and Older<sup>a</sup> by Race-Ethnicity**  
**2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>56.8</b>           | <b>(54.8-58.9)</b>      | <b>59.0</b>         | <b>(56.9-61.1)</b>      | <b>40.0</b>         | <b>(32.0-48.5)</b>      | <b>46.2</b>                     | <b>(32.9-60.0)</b>      | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 57.6                  | (54.2-60.8)             | 59.9                | (56.7-63.1)             | 39.8                | (26.8-54.4)             | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 56.2                  | (53.6-58.8)             | 58.3                | (55.6-61.0)             | 40.1                | (30.8-50.2)             | 35.5                            | (21.4-52.7)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 53.6                  | (50.4-56.8)             | 56.2                | (52.9-59.4)             | 34.7                | (24.4-46.6)             | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 60.2                  | (57.6-62.7)             | 61.9                | (59.3-64.5)             | 47.6                | (36.8-58.6)             | 40.6                            | (25.1-58.3)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 55.4                  | (52.0-58.8)             | 58.0                | (54.5-61.3)             | 45.4                | (34.7-56.6)             | 45.9                            | (27.7-65.3)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 57.9                  | (54.7-61.0)             | 59.6                | (56.4-62.7)             | 31.6                | (19.5-46.9)             | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

<sup>c</sup> 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<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>68.6</b>           | <b>(66.5-70.5)</b>      | <b>70.6</b>         | <b>(68.6-72.5)</b>      | <b>52.5</b>         | <b>(43.2-61.6)</b>      | <b>61.8</b>                     | <b>(47.0-74.6)</b>      | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 66.5                  | (63.1-69.7)             | 69.5                | (66.3-72.5)             | 42.5                | (28.5-57.7)             | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 70.1                  | (67.6-72.5)             | 71.4                | (68.8-73.9)             | 60.1                | (49.5-69.8)             | 61.4                            | (42.3-77.5)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 67.0                  | (63.7-70.2)             | 69.6                | (66.5-72.6)             | 45.7                | (33.4-58.6)             | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 70.1                  | (67.6-72.5)             | 71.5                | (69.0-73.9)             | 62.3                | (50.5-72.9)             | 49.4                            | (32.2-66.8)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 67.9                  | (64.5-71.2)             | 69.8                | (66.4-73.0)             | 59.8                | (47.1-71.3)             | 64.6                            | (43.7-81.1)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 68.1                  | (64.9-71.1)             | 70.7                | (67.6-73.6)             | 34.7                | (21.5-50.8)             | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> The proportion of those aged 65 years and older who reported that they ever had a pneumococcal vaccine.

<sup>b</sup> Michigan estimates include all racial groups.

<sup>c</sup> 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<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>41.2</b>           | <b>(39.8-42.7)</b>      | <b>36.1</b>         | <b>(34.6-37.7)</b>      | <b>71.2</b>         | <b>(66.8-75.2)</b>      | <b>38.4</b>                     | <b>(32.0-45.1)</b>      | <b>40.8</b>     | <b>(32.8-49.3)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 46.7                  | (44.7-48.6)             | 42.1                | (40.0-44.3)             | 74.2                | (68.6-79.1)             | 40.6                            | (32.9-48.8)             | 42.2            | (33.1-51.9)             |
| 50 - 64                      | 31.4                  | (29.4-33.4)             | 26.3                | (24.4-28.3)             | 64.7                | (57.5-71.3)             | 32.2                            | (22.4-43.9)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 37.9                  | (35.8-40.1)             | 33.0                | (30.8-35.2)             | 69.9                | (62.8-76.1)             | 33.2                            | (25.6-41.8)             | 37.8            | (26.8-50.1)             |
| Female                       | 44.4                  | (42.5-46.4)             | 39.0                | (37.0-41.2)             | 71.7                | (66.1-76.7)             | 44.7                            | (35.0-54.7)             | 43.4            | (32.3-55.3)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 39.2                  | (36.6-41.9)             | 31.8                | (29.1-34.5)             | 72.6                | (65.6-78.7)             | 44.2                            | (32.7-56.4)             | 35.1            | (24.2-47.9)             |
| Some college or more         | 42.5                  | (40.7-44.2)             | 38.6                | (36.8-40.5)             | 69.2                | (63.7-74.3)             | 36.5                            | (29.1-44.6)             | 48.4            | (37.6-59.3)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 47.3                  | (44.7-49.9)             | 38.8                | (35.9-41.7)             | 75.6                | (69.8-80.6)             | 49.5                            | (39.0-60.0)             | 43.2            | (31.1-56.1)             |
| \$35,000 +                   | 38.7                  | (36.8-40.5)             | 35.6                | (33.7-37.5)             | 69.0                | (62.0-75.3)             | 33.3                            | (25.3-42.5)             | 42.4            | (31.0-54.7)             |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 28: Lifetime Asthma Prevalence - Adult<sup>a</sup> by Race-Ethnicity**  
**2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>16.6</b>           | <b>(15.7-17.5)</b>      | <b>16.0</b>         | <b>(15.0-17.0)</b>      | <b>19.4</b>         | <b>(16.4-22.7)</b>      | <b>19.0</b>                     | <b>(14.8-24.2)</b>      | <b>18.3</b>     | <b>(12.8-25.5)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 18.8                  | (17.3-20.3)             | 18.7                | (17.1-20.4)             | 19.6                | (15.7-24.2)             | 17.6                            | (12.5-24.3)             | 18.9            | (12.2-28.0)             |
| 50 +                         | 14.4                  | (13.4-15.6)             | 13.4                | (12.4-14.5)             | 19.0                | (14.6-24.3)             | 23.1                            | (16.0-32.2)             | 16.8            | (9.2-28.7)              |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 14.3                  | (13.0-15.8)             | 13.9                | (12.5-15.4)             | 16.6                | (12.3-22.0)             | 16.7                            | (10.8-24.9)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 18.7                  | (17.5-20.0)             | 18.0                | (16.7-19.4)             | 21.7                | (17.8-26.2)             | 21.4                            | (15.8-28.5)             | 21.4            | (13.9-31.5)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 18.0                  | (16.4-19.7)             | 17.1                | (15.4-18.9)             | 18.4                | (14.1-23.6)             | 28.8                            | (19.9-39.7)             | 23.2            | (15.0-34.1)             |
| Some college or more         | 15.7                  | (14.6-16.8)             | 15.3                | (14.2-16.5)             | 20.2                | (16.4-24.7)             | 14.2                            | (10.2-19.4)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 20.1                  | (18.5-21.9)             | 19.8                | (18.0-21.8)             | 19.5                | (15.6-24.1)             | 28.1                            | (20.3-37.5)             | 20.3            | (11.9-32.4)             |
| \$35,000 +                   | 13.9                  | (12.8-15.1)             | 13.2                | (12.1-14.4)             | 19.7                | (14.7-25.9)             | 14.3                            | (9.2-21.6)              | 16.4            | (9.1-27.6)              |

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

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 29: Current Asthma Prevalence - Adult<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>11.5</b>           | <b>(10.7-12.3)</b>      | <b>10.9</b>         | <b>(10.1-11.8)</b>      | <b>14.3</b>         | <b>(11.7-17.4)</b>      | <b>11.7</b>                     | <b>(8.9-15.2)</b>       | <b>13.4</b>     | <b>(8.7-20.2)</b>       |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 12.5                  | (11.2-13.8)             | 12.1                | (10.7-13.6)             | 14.9                | (11.5-19.2)             | 9.7                             | (6.6-14.1)              | 13.5            | (7.8-22.3)              |
| 50 +                         | 10.6                  | (9.6-11.5)              | 9.9                 | (9.0-10.8)              | 13.5                | (9.7-18.5)              | 16.7                            | (11.5-23.5)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 8.6                   | (7.6-9.8)               | 8.4                 | (7.3-9.6)               | 9.7                 | (6.4-14.5)              | 8.4                             | (5.3-13.0)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 14.2                  | (13.1-15.3)             | 13.3                | (12.1-14.5)             | 18.3                | (14.7-22.7)             | 15.1                            | (10.8-20.8)             | 16.8            | (10.0-26.8)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 13.2                  | (11.8-14.7)             | 12.3                | (10.9-13.9)             | 14.4                | (10.6-19.3)             | 17.5                            | (11.9-24.9)             | 19.0            | (11.6-29.4)             |
| Some college or more         | 10.3                  | (9.4-11.3)              | 10.0                | (9.1-11.0)              | 14.3                | (11.0-18.4)             | 8.9                             | (6.1-12.9)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 14.7                  | (13.2-16.3)             | 14.0                | (12.4-15.7)             | 15.0                | (11.5-19.3)             | 19.3                            | (13.5-26.8)             | 18.6            | (10.6-30.7)             |
| \$35,000 +                   | 9.3                   | (8.3-10.3)              | 8.9                 | (7.9-9.9)               | 13.9                | (9.5-19.9)              | 8.8                             | (5.6-13.5)              | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> The proportion who reported that they still had asthma.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 30: Ever Told Chronic Obstructive Pulmonary Disease (COPD)<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | 8.8                   | (8.1-9.5)               | 8.6                 | (7.9-9.3)               | 10.7                | (8.4-13.6)              | 8.5                             | (5.8-12.4)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 4.2                   | (3.5-5.1)               | 4.2                 | (3.4-5.1)               | 6.5                 | (4.3-9.7)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 13.6                  | (12.5-14.7)             | 12.8                | (11.7-13.9)             | 17.2                | (12.7-22.7)             | 21.6                            | (14.3-31.2)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 7.9                   | (7.0-9.0)               | 7.8                 | (6.9-8.9)               | 7.9                 | (5.0-12.3)              | 9.4                             | (5.2-16.2)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 9.5                   | (8.6-10.5)              | 9.3                 | (8.3-10.3)              | 13.1                | (9.8-17.3)              | 7.7                             | (4.8-12.1)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 12.7                  | (11.4-14.1)             | 12.9                | (11.5-14.4)             | 13.3                | (9.5-18.3)              | 15.3                            | (8.7-25.3)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 5.8                   | (5.2-6.4)               | 5.6                 | (5.0-6.3)               | 8.0                 | (5.7-11.2)              | 5.2                             | (3.3-8.1)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 14.8                  | (13.4-16.3)             | 15.7                | (14.2-17.4)             | 12.7                | (9.5-16.7)              | 18.1                            | (11.5-27.1)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 4.4                   | (3.8-5.2)               | 4.3                 | (3.7-5.1)               | 7.1                 | (3.9-12.7)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

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

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 31: Ever Told Arthritis<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>31.3</b>           | <b>(30.3-32.4)</b>      | <b>32.9</b>         | <b>(31.8-34.1)</b>      | <b>29.1</b>         | <b>(25.8-32.6)</b>      | <b>19.7</b>                     | <b>(15.7-24.3)</b>      | <b>22.0</b> | <b>(16.6-28.7)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| 18 - 49                      | 13.6                  | (12.4-14.9)             | 15.1                | (13.7-16.6)             | 9.8                 | (7.1-13.3)              | 7.8                             | (4.9-12.2)              | 11.1        | (6.1-19.4)              |
| 50 +                         | 51.0                  | (49.5-52.4)             | 50.2                | (48.7-51.7)             | 57.8                | (52.2-63.2)             | 45.1                            | (36.2-54.4)             | 52.4        | (40.4-64.2)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| Male                         | 27.9                  | (26.4-29.4)             | 29.5                | (27.8-31.2)             | 25.8                | (20.8-31.5)             | 17.5                            | (12.1-24.6)             | 18.6        | (11.8-28.1)             |
| Female                       | 34.6                  | (33.2-36.0)             | 36.2                | (34.6-37.7)             | 32.0                | (27.8-36.5)             | 22.0                            | (16.6-28.5)             | 25.1        | (17.3-34.9)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| High school graduate or less | 36.8                  | (35.0-38.7)             | 39.0                | (37.0-41.1)             | 32.7                | (27.5-38.5)             | 26.7                            | (18.6-36.8)             | 25.0        | (17.1-34.8)             |
| Some college or more         | 27.3                  | (26.2-28.6)             | 28.7                | (27.4-30.1)             | 25.1                | (21.4-29.3)             | 16.2                            | (12.3-21.1)             | 18.8        | (11.9-28.3)             |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |             |                         |
| < \$35,000                   | 39.1                  | (37.1-41.1)             | 42.0                | (39.8-44.3)             | 33.0                | (28.2-38.1)             | 34.8                            | (26.4-44.3)             | 27.9        | (19.1-38.9)             |
| \$35,000 +                   | 26.3                  | (25.0-27.6)             | 27.5                | (26.1-29.0)             | 25.8                | (20.9-31.3)             | 11.9                            | (8.0-17.2)              | 16.8        | (10.2-26.4)             |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

**Table 32: Ever Told Heart Attack<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | 5.2                   | (4.7-5.7)               | 5.4                 | (4.9-6.0)               | 3.6                 | (2.5-5.1)               | 4.2                             | (2.7-6.6)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 1.2                   | (0.8-1.7)               | 1.3                 | (0.8-1.9)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 9.2                   | (8.4-10.1)              | 9.4                 | (8.6-10.4)              | 7.3                 | (5.0-10.4)              | 11.5                            | (7.0-18.3)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 6.8                   | (6.0-7.7)               | 7.3                 | (6.5-8.3)               | 3.8                 | (2.2-6.6)               | 6.2                             | (3.5-11.0)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 3.6                   | (3.1-4.2)               | 3.6                 | (3.1-4.2)               | 3.4                 | (2.2-5.1)               | 2.2                             | (1.2-3.9)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 6.9                   | (6.0-7.8)               | 7.7                 | (6.7-8.8)               | 4.3                 | (2.7-6.7)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 3.6                   | (3.2-4.1)               | 3.8                 | (3.3-4.4)               | 2.9                 | (1.7-4.8)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 7.5                   | (6.6-8.5)               | 8.6                 | (7.5-9.9)               | 4.4                 | (2.9-6.6)               | 7.9                             | (4.5-13.6)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 3.2                   | (2.7-3.8)               | 3.5                 | (3.0-4.1)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> The proportion who had ever been told by a doctor that they had a heart attack or myocardial infarction.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 33: Ever Told Angina or Coronary Heart Disease<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | 5.2                   | (4.8-5.7)               | 5.6                 | (5.1-6.1)               | 4.8                 | (3.5-6.6)               | 4.0                             | (2.6-6.3)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 1.0                   | (0.7-1.5)               | 0.9                 | (0.5-1.5)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 10.1                  | (9.2-11.0)              | 10.2                | (9.3-11.2)              | 9.5                 | (6.7-13.1)              | 11.0                            | (6.9-17.3)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 6.9                   | (6.1-7.8)               | 7.5                 | (6.6-8.4)               | 6.4                 | (4.1-10.0)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 3.7                   | (3.2-4.2)               | 3.8                 | (3.2-4.4)               | 3.4                 | (2.2-5.0)               | 3.2                             | (1.8-5.5)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 6.7                   | (5.9-7.7)               | 7.4                 | (6.4-8.5)               | 5.2                 | (3.3-8.2)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 4.2                   | (3.7-4.8)               | 4.3                 | (3.8-4.9)               | 4.4                 | (2.8-6.7)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 7.4                   | (6.5-8.4)               | 8.0                 | (7.0-9.2)               | 5.9                 | (4.0-8.8)               | 6.8                             | (3.9-11.5)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 3.8                   | (3.3-4.4)               | 4.1                 | (3.5-4.8)               | 3.2                 | (1.7-5.7)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> The proportion who had ever been told by a doctor that they had angina or coronary heart disease.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 34: Ever Told Stroke<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | 3.6                   | (3.2-4.0)               | 3.3                 | (2.9-3.7)               | 5.1                 | (3.7-6.8)               | 4.7                             | (2.5-8.4)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 1.5                   | (1.1-2.0)               | 1.2                 | (0.8-1.7)               | 3.0                 | (1.7-5.1)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 5.9                   | (5.2-6.7)               | 5.4                 | (4.7-6.1)               | 8.2                 | (5.7-11.7)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 3.7                   | (3.1-4.4)               | 3.4                 | (2.8-4.1)               | 5.0                 | (3.1-8.1)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 3.5                   | (3.0-4.1)               | 3.2                 | (2.7-3.8)               | 5.1                 | (3.5-7.4)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 4.7                   | (3.9-5.5)               | 4.1                 | (3.4-4.9)               | 6.4                 | (4.3-9.6)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 2.8                   | (2.4-3.2)               | 2.7                 | (2.3-3.2)               | 3.6                 | (2.4-5.4)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 5.9                   | (5.0-6.9)               | 5.8                 | (4.8-6.9)               | 6.1                 | (4.2-8.8)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 2.1                   | (1.7-2.6)               | 1.9                 | (1.6-2.4)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> The proportion who had ever been told by a doctor that they had a stroke.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 35: Ever Told Any Cardiovascular Disease<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | 10.1                  | (9.4-10.8)              | 10.1                | (9.5-10.9)              | 10.5                | (8.5-13.0)              | 9.3                             | (6.4-13.3)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 3.1                   | (2.5-3.8)               | 2.7                 | (2.0-3.5)               | 5.0                 | (3.2-7.8)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 17.6                  | (16.5-18.8)             | 17.4                | (16.3-18.6)             | 18.8                | (14.9-23.5)             | 22.3                            | (14.9-32.0)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 12.2                  | (11.1-13.3)             | 12.5                | (11.4-13.7)             | 12.0                | (8.7-16.4)              | 10.9                            | (6.4-18.0)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 8.1                   | (7.4-9.0)               | 7.9                 | (7.1-8.8)               | 9.2                 | (7.0-12.1)              | 7.7                             | (4.8-12.3)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 13.0                  | (11.8-14.3)             | 13.5                | (12.1-14.9)             | 12.0                | (8.8-16.1)              | 14.1                            | (7.9-24.0)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 7.8                   | (7.1-8.5)               | 7.9                 | (7.2-8.7)               | 9.0                 | (6.8-12.0)              | 6.9                             | (4.4-10.7)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 14.6                  | (13.3-16.0)             | 15.3                | (13.8-16.9)             | 12.9                | (9.9-16.6)              | 16.3                            | (10.0-25.4)             | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 7.0                   | (6.3-7.8)               | 7.2                 | (6.5-8.1)               | 8.5                 | (5.6-12.6)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> The proportion who had ever been told by a doctor that they had a heart attack, coronary heart disease or a stroke.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 36: Ever Told Skin Cancer<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | 5.4                   | (5.0-5.8)               | 6.7                 | (6.2-7.2)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 0.8                   | (0.6-1.2)               | 1.1                 | (0.8-1.6)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 10.4                  | (9.6-11.2)              | 12.1                | (11.3-13.1)             | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 5.2                   | (4.7-5.8)               | 6.6                 | (5.9-7.4)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 5.5                   | (5.0-6.1)               | 6.8                 | (6.1-7.6)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 5.0                   | (4.4-5.7)               | 6.6                 | (5.8-7.4)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 5.6                   | (5.1-6.2)               | 6.8                 | (6.2-7.5)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 4.8                   | (4.2-5.5)               | 6.7                 | (5.8-7.7)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 5.4                   | (4.9-6.0)               | 6.4                 | (5.7-7.1)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> The proportion who reported ever being told by a doctor that they had skin cancer.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 37: Ever Told Any Other Type of Cancer<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | 7.7                   | (7.2-8.3)               | 8.5                 | (7.9-9.1)               | 5.5                 | (4.1-7.4)               | 4.6                             | (3.1-6.9)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 2.7                   | (2.2-3.3)               | 3.1                 | (2.5-4.0)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 13.1                  | (12.2-14.1)             | 13.4                | (12.5-14.5)             | 11.5                | (8.4-15.5)              | 11.6                            | (7.3-17.8)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 6.4                   | (5.7-7.2)               | 6.9                 | (6.1-7.7)               | 6.7                 | (4.3-10.4)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 8.9                   | (8.2-9.8)               | 10.0                | (9.1-11.0)              | 4.5                 | (3.2-6.3)               | 6.9                             | (4.3-11.1)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 8.5                   | (7.6-9.6)               | 9.5                 | (8.4-10.7)              | 5.6                 | (3.4-8.9)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 7.1                   | (6.5-7.8)               | 7.8                 | (7.0-8.6)               | 5.4                 | (3.9-7.4)               | 3.2                             | (2.0-5.0)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 9.4                   | (8.4-10.5)              | 11.0                | (9.8-12.4)              | 5.6                 | (3.9-8.0)               | 6.5                             | (4.2-10.0)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 6.4                   | (5.7-7.1)               | 6.8                 | (6.1-7.6)               | 5.2                 | (2.9-9.0)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

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

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 38: Ever Told Cancer<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>11.9</b>           | <b>(11.2-12.5)</b>      | <b>13.7</b>         | <b>(13.0-14.5)</b>      | <b>5.7</b>          | <b>(4.3-7.6)</b>        | <b>5.3</b>                      | <b>(3.7-7.6)</b>        | <b>4.2</b>      | <b>(2.4-7.3)</b>        |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 3.4                   | (2.8-4.0)               | 4.1                 | (3.3-4.9)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 21.1                  | (20.0-22.3)             | 22.9                | (21.7-24.1)             | 12.0                | (8.8-16.0)              | 13.6                            | (9.1-19.8)              | 12.8            | (6.9-22.3)              |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 10.5                  | (9.6-11.4)              | 12.0                | (11.0-13.0)             | 7.0                 | (4.5-10.7)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 13.2                  | (12.3-14.2)             | 15.4                | (14.3-16.5)             | 4.6                 | (3.3-6.5)               | 8.0                             | (5.2-12.2)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 12.4                  | (11.3-13.5)             | 14.5                | (13.3-15.9)             | 5.7                 | (3.6-9.1)               | 8.3                             | (4.6-14.7)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 11.5                  | (10.7-12.3)             | 13.2                | (12.3-14.1)             | 5.7                 | (4.1-7.7)               | 3.8                             | (2.5-5.7)               | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 12.9                  | (11.8-14.1)             | 16.0                | (14.5-17.5)             | 5.8                 | (4.1-8.2)               | 7.5                             | (5.0-11.2)              | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 10.8                  | (10.0-11.7)             | 12.0                | (11.1-13.0)             | 5.4                 | (3.1-9.2)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

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

<sup>b</sup> Michigan estimates include all racial groups.

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

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October 2, 2014

**Table 39: Ever Told Diabetes<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>10.4</b>           | <b>(9.7-11.0)</b>       | <b>10.1</b>         | <b>(9.4-10.8)</b>       | <b>11.7</b>         | <b>(9.6-14.2)</b>       | <b>8.8</b>                      | <b>(6.2-12.2)</b>       | <b>10.8</b>     | <b>(7.3-15.6)</b>       |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 3.6                   | (3.0-4.4)               | 3.3                 | (2.6-4.1)               | 6.2                 | (4.0-9.5)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 17.5                  | (16.4-18.6)             | 16.6                | (15.5-17.7)             | 19.6                | (15.8-23.9)             | 22.2                            | (15.5-30.9)             | 34.1            | (23.6-46.5)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 11.0                  | (10.1-12.1)             | 11.0                | (10.0-12.1)             | 12.1                | (8.8-16.5)              | 7.6                             | (4.5-12.6)              | 12.4            | (7.2-20.5)              |
| Female                       | 9.7                   | (8.9-10.6)              | 9.3                 | (8.4-10.2)              | 11.3                | (8.9-14.4)              | 10.0                            | (6.3-15.3)              | 9.3             | (5.4-15.6)              |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 12.2                  | (11.1-13.4)             | 12.5                | (11.3-13.8)             | 10.8                | (7.9-14.7)              | 12.0                            | (6.8-20.2)              | 12.8            | (7.7-20.4)              |
| Some college or more         | 8.9                   | (8.2-9.6)               | 8.5                 | (7.7-9.3)               | 12.6                | (9.8-16.1)              | 7.2                             | (4.8-10.7)              | 8.5             | (4.7-15.0)              |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 13.4                  | (12.1-14.7)             | 13.7                | (12.3-15.1)             | 12.6                | (9.7-16.3)              | 12.5                            | (8.2-18.7)              | 12.8            | (7.6-20.9)              |
| \$35,000 +                   | 8.2                   | (7.4-9.1)               | 7.8                 | (7.0-8.6)               | 12.9                | (9.2-17.9)              | 7.1                             | (3.8-12.9)              | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> 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.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 40: Ever Told Kidney Disease<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>3.0</b>            | <b>(2.6-3.4)</b>        | <b>3.1</b>          | <b>(2.7-3.5)</b>        | <b>3.4</b>          | <b>(2.0-5.6)</b>        | <b>1.0</b>                      | <b>(0.5-1.9)</b>        | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 1.3                   | (1.0-1.9)               | 1.5                 | (1.1-2.1)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| 50 +                         | 4.7                   | (4.1-5.4)               | 4.5                 | (4.0-5.2)               | 6.4                 | (3.9-10.4)              | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 2.1                   | (1.8-2.6)               | 2.4                 | (1.9-2.9)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Female                       | 3.8                   | (3.2-4.4)               | 3.7                 | (3.2-4.3)               | 5.5                 | (3.1-9.6)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 3.4                   | (2.7-4.2)               | 3.3                 | (2.7-4.0)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| Some college or more         | 2.6                   | (2.2-3.0)               | 2.9                 | (2.4-3.4)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 3.8                   | (3.3-4.5)               | 4.3                 | (3.6-5.1)               | 3.0                 | (1.9-4.8)               | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |
| \$35,000 +                   | 2.2                   | (1.7-2.7)               | 2.3                 | (1.9-2.8)               | -- <sup>c</sup>     | -- <sup>c</sup>         | -- <sup>c</sup>                 | -- <sup>c</sup>         | -- <sup>c</sup> | -- <sup>c</sup>         |

<sup>a</sup> The proportion who reported ever being told by a doctor that they had kidney disease.

<sup>b</sup> Michigan estimates include all racial groups.

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

**Table 41: Ever Told Depression<sup>a</sup> by Race-Ethnicity  
2013 Michigan BRFSS**

| Demographic Characteristics  | Michigan <sup>b</sup> |                         | 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 |
| <b>Total</b>                 | <b>21.3</b>           | <b>(20.4-22.3)</b>      | <b>22.0</b>         | <b>(21.0-23.1)</b>      | <b>19.6</b>         | <b>(16.5-23.1)</b>      | <b>18.9</b>                     | <b>(14.9-23.6)</b>      | <b>18.9</b>     | <b>(13.4-26.0)</b>      |
| <b>Age</b>                   |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| 18 - 49                      | 21.0                  | (19.5-22.6)             | 23.0                | (21.3-24.8)             | 17.0                | (12.9-21.9)             | 12.1                            | (8.7-16.7)              | 15.9            | (9.7-25.0)              |
| 50 +                         | 22.1                  | (20.8-23.3)             | 21.3                | (20.0-22.6)             | 23.4                | (18.9-28.5)             | 33.8                            | (25.2-43.6)             | 27.5            | (17.9-39.8)             |
| <b>Gender</b>                |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| Male                         | 17.3                  | (16.0-18.8)             | 17.3                | (15.8-18.9)             | 18.0                | (13.6-23.6)             | 17.8                            | (12.2-25.2)             | 16.0            | (9.0-26.8)              |
| Female                       | 25.1                  | (23.8-26.5)             | 26.5                | (25.0-28.0)             | 20.8                | (16.8-25.5)             | 20.0                            | (14.9-26.3)             | 21.6            | (14.0-31.9)             |
| <b>Education</b>             |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| High school graduate or less | 24.5                  | (22.7-26.3)             | 24.6                | (22.7-26.5)             | 23.1                | (18.2-28.8)             | 29.5                            | (21.0-39.8)             | 23.8            | (15.6-34.5)             |
| Some college or more         | 19.2                  | (18.1-20.4)             | 20.3                | (19.1-21.6)             | 15.5                | (12.1-19.6)             | 13.6                            | (9.9-18.3)              | 13.3            | (7.2-23.1)              |
| <b>Household Income</b>      |                       |                         |                     |                         |                     |                         |                                 |                         |                 |                         |
| < \$35,000                   | 29.7                  | (27.8-31.6)             | 31.3                | (29.2-33.5)             | 24.6                | (20.3-29.6)             | 34.7                            | (26.2-44.2)             | 23.2            | (14.6-34.7)             |
| \$35,000 +                   | 16.0                  | (14.9-17.2)             | 16.8                | (15.6-18.1)             | 11.4                | (7.9-16.1)              | 11.0                            | (7.2-16.5)              | -- <sup>c</sup> | -- <sup>c</sup>         |

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

<sup>b</sup> Michigan estimates include all racial groups.

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