A Profile of Health Among Massachusetts Adults, 2014

**Results from the Behavioral Risk Factor Surveillance System**

Health Survey Program

Office of Data Management and Outcomes Assessment

Massachusetts Department of Public Health



August 2015

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*August 2015*

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# Introduction

The Behavioral Risk Factor Surveillance System (BRFSS) is a continuous multimode survey of adults ages 18 and older and is conducted in all states as a collaboration between the federal Centers for Disease Control and Prevention (CDC) and state departments of health. The landline telephone portion of the survey has been conducted in Massachusetts since 1986; a cell phone component was added in 2011. The BRFSS collects data on a variety of health risk factors, preventive behaviors, chronic conditions, and emerging public health issues. The information obtained in this survey assists in identifying the need for health interventions, monitoring the effectiveness of existing interventions and prevention programs, developing health policy and legislation, and measuring progress toward attaining state and national health objectives.

Each year, the BRFSS includes a core set of questions developed by the CDC. These questions address health status, health care access and utilization, overweight and obesity status, asthma, diabetes, immunizations, tobacco use, alcohol consumption, HIV/AIDS testing and other selected public health topics.

In addition to the core CDC questions, the Massachusetts Health Survey Program, in collaboration with other Massachusetts Department of Public Health programs, added a number of topics to the surveillance instrument including environmental tobacco exposure, family planning, sexual violence, and other selected topics.

In 2014, 11,678 landline interviews and 3,976 cell phone interviews were completed among Massachusetts adults. To increase the number of respondents who belong to racial and/or ethnic minority groups, the cities of Boston, Brockton, Lowell, Lynn, New Bedford, Quincy, Springfield, and Worcester were oversampled. Interviews were administered in the respondents’ preferred language, with a choice of English, Spanish, or Portuguese.

This report summarizes selected results from the combined landline and cell phone portions of the 2014 Massachusetts BRFSS. In each section of the report, a description of survey questions used to obtain estimates for key variables is provided. Tables detailing the overall estimates and estimates by demographic and socioeconomic characteristics (gender, age, race-ethnicity, disability status, education and annual household income) are provided in the main body of the report in the form of crude percentages.

In the Appendix of the report, tables are presented detailing age-adjusted percentages for 2014 indicators and their 95% confidence intervals. United States (US) median data for all participating states and territories for variables with comparable national data are presented for 2014 in a separate table. The *Healthy People 2020* objectives are presented separately as a new challenging goal for public health.

All percentages in this report are weighted (see definition on page 61) to represent the total Massachusetts population in 2014.

|  |  |  |
| --- | --- | --- |
| Demographic Characteristics of Respondents Massachusetts Behavioral Risk Factor Surveillance System, 2014 | | |
|  | Unweighted Sample Size | Weighted Percent |
|  | N | %† |
| Overall | 15,654 |  |
| Gender |  |  |
| male | 6,267 | 47.8 |
| female | 9,387 | 52.2 |
| Age Group |  |  |
| 18–24 | 680 | 13.4 |
| 25–34 | 1,287 | 16.8 |
| 35–44 | 1,627 | 15.8 |
| 45–54 | 2,574 | 18.1 |
| 55–64 | 3,487 | 16.3 |
| 65–74 | 3,225 | 11.0 |
| 75 and older | 2,428 | 8.7 |
| Race-ethnicity\* |  |  |
| white | 12,801 | 78.5 |
| black | 812 | 6.4 |
| hispanic | 870 | 9.6 |
| asian | 350 | 5.5 |
| Disability¶ |  |  |
| disability | 5,346 | 30.7 |
| no disability | 9,414 | 69.3 |
| Education |  |  |
| < high school | 985 | 11.2 |
| high school | 3,589 | 26.4 |
| college 1–3 yrs | 3,737 | 26.9 |
| college 4+ yrs | 7,137 | 35.5 |
| Household Income |  |  |
| <$25,000 | 3,378 | 24.7 |
| $25,000–34,999 | 1,270 | 9.1 |
| $35,000–49,999 | 1,692 | 12.2 |
| $50,000–74,999 | 1,884 | 13.2 |
| $75,000+ | 4,810 | 40.7 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † See BRFSS methodology in “Terms, Definitions and Methodology Used in this Report”  ¶ See p 62 for definition of disability | | |

# Section 1: Overall Health Measures

## Section 1.1: Overall Health Status

Respondents were asked to describe their overall health as excellent, very good, good, fair, or poor. Presented here are the percentages of adults who reported that their overall health was fair or poor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 1.1 – Overall Health Status Among Massachusetts Adults, 2014 | | | | | |
|  | Fair or Poor Health  N % 95% CI | | | | |
| Overall | 15,614 | 14.5 | 13.6 | -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - | 15.4 |
| Gender |  |  |  |  |  |
| male | 6,248 | 13.9 | 12.6 | - | 15.3 |
| female | 9,366 | 15.0 | 13.8 | - | 16.2 |
| Age Group |  |  |  |  |  |
| 18–24 | 680 | 7.5 | 4.8 | - | 10.1 |
| 25–34 | 1,285 | 9.7 | 7.5 | - | 11.9 |
| 35–44 | 1,626 | 11.5 | 9.1 | - | 14.0 |
| 45–54 | 2,572 | 16.5 | 14.2 | - | 18.7 |
| 55–64 | 3,480 | 18.7 | 16.7 | - | 20.7 |
| 65–74 | 3,214 | 19.3 | 17.0 | - | 21.7 |
| 75 and older | 2,413 | 22.7 | 20.1 | - | 25.4 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 12,770 | 12.9 | 12.0 | - | 13.8 |
| black | 810 | 14.1 | 10.7 | - | 17.5 |
| hispanic | 867 | 31.5 | 26.8 | - | 36.2 |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 5,322 | 37.6 | 35.4 | - | 39.8 |
| no disability | 9,404 | 4.7 | 3.9 | - | 5.4 |
| Education |  |  |  |  |  |
| < high school | 976 | 36.9 | 32.2 | - | 41.6 |
| high school | 3,581 | 18.2 | 16.3 | - | 20.1 |
| college 1–3 yrs | 3,726 | 13.9 | 12.3 | - | 15.5 |
| college 4+ yrs | 7,129 | 5.2 | 4.6 | - | 5.8 |
| Household Income |  |  |  |  |  |
| <$25,000 | 3,362 | 34.2 | 31.3 | - | 37.0 |
| $25,000–34,999 | 1,265 | 17.2 | 14.0 | - | 20.4 |
| $35,000–49,999 | 1,690 | 13.0 | 10.3 | - | 15.6 |
| $50,000–74,999 | 1,884 | 8.1 | 5.8 | - | 10.5 |
| $75,000+ | 4,808 | 4.1 | 3.4 | - | 4.8 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 1.2: Quality of Life

All respondents were asked to report: (1) the number of days during the past month that their physical health, which includes physical illness and injury, had not been good; and (2) the number of days during the past month they would describe their mental health, which includes stress, depression, and problems with emotions, as not good.

Presented here are the percentages of adults who reported that (1) they had experienced at least 15 days of poor physical health in the previous month; or (2) their mental health was not good for at least 15 days during the past month.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 1.2 – Quality of Life Among Massachusetts Adults, 2014 | | | | | | | | | | |
|  | 15+ DAYS OF POOR PHYSICAL HEALTH  N % 95% CI | | | | | 15+ DAYS OF POOR MENTAL HEALTH  N % 95% CI | | | | |
|  |
|  |
| Overall | 15,234 | 9.7 | 9.0 | - | 10.4 | 15,331 | 11.3 | 10.4 | - | 12.1 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 6,124 | 9.1 | 8.0 | - | 10.2 | 6,149 | 9.9 | 8.7 | - | 11.1 |
| female | 9,110 | 10.2 | 9.2 | - | 11.2 | 9,182 | 12.5 | 11.3 | - | 13.7 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 668 | 5.3 | 2.9 | - | 7.6 | 670 | 12.5 | 9.4 | - | 15.7 |
| 25–34 | 1,273 | 5.7 | 4.0 | - | 7.3 | 1,274 | 13.7 | 11.2 | - | 16.2 |
| 35–44 | 1,603 | 8.4 | 6.4 | - | 10.4 | 1,599 | 10.8 | 8.6 | - | 13.0 |
| 45–54 | 2,534 | 11.7 | 9.9 | - | 13.6 | 2,534 | 14.2 | 12.1 | - | 16.2 |
| 55–64 | 3,416 | 13.4 | 11.7 | - | 15.2 | 3,424 | 11.7 | 10.1 | - | 13.3 |
| 65–74 | 3,121 | 12.4 | 10.5 | - | 14.3 | 3,152 | 6.0 | 4.7 | - | 7.2 |
| 75 and older | 2,279 | 13.1 | 11.0 | - | 15.3 | 2,338 | 5.5 | 4.0 | - | 7.0 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 12,487 | 10.0 | 9.2 | - | 10.9 | 12,561 | 10.7 | 9.7 | - | 11.6 |
| black | 780 | 7.7 | 5.0 | - | 10.3 | 786 | 13.4 | 9.6 | - | 17.1 |
| hispanic | 831 | 11.8 | 8.7 | - | 15.0 | 840 | 16.5 | 12.9 | - | 20.1 |
| asian | † |  |  |  |  | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 5,072 | 28.1 | 26.0 | - | 30.2 | 5,171 | 25.9 | 23.7 | - | 28.0 |
| no disability | 9,306 | 2.0 | 1.6 | - | 2.4 | 9,297 | 4.8 | 4.1 | - | 5.5 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 915 | 17.2 | 13.7 | - | 20.7 | 930 | 19.3 | 15.3 | - | 23.2 |
| high school | 3,442 | 12.5 | 10.8 | - | 14.2 | 3,473 | 13.8 | 11.9 | - | 15.6 |
| college 1–3 yrs | 3,639 | 10.8 | 9.4 | - | 12.2 | 3,676 | 12.7 | 10.9 | - | 14.4 |
| college 4+ yrs | 7,045 | 4.6 | 4.0 | - | 5.2 | 7,059 | 5.9 | 5.1 | - | 6.6 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 3,224 | 21.6 | 19.1 | - | 24.0 | 3,254 | 22.8 | 20.2 | - | 25.3 |
| $25,000–34,999 | 1,244 | 11.3 | 8.6 | - | 14.0 | 1,244 | 12.8 | 9.3 | - | 16.3 |
| $35,000–49,999 | 1,650 | 8.0 | 6.0 | - | 10.0 | 1,667 | 10.2 | 7.8 | - | 12.7 |
| $50,000–74,999 | 1,866 | 6.2 | 4.7 | - | 7.7 | 1,866 | 10.1 | 7.7 | - | 12.5 |
| $75,000+ | 4,771 | 4.1 | 3.3 | - | 4.9 | 4,772 | 5.5 | 4.4 | - | 6.6 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 1.3: Disability

In 2014, respondents were asked about disabilities and activity limitations. Respondents were classified as having a disability if they answered “yes” to one or more of the following questions:

1. Are you limited in any way in any activities because of physical, mental, or emotional problems?

2. Do you now have any health problem that requires you to use special equipment, such as a cane, a wheelchair, a special bed, or a special telephone?

3. Are you blind or do you have serious difficulty seeing, even when wearing glasses?

4. Because of a physical, mental, or emotional condition, do you have serious difficulty concentrating, remembering or making decisions?

5. Do you have serious difficulty walking or climbing stairs?

6. Do you have difficulty dressing or bathing?

7. Because of a physical, mental or emotional condition, do you have difficulty doing errands alone such as visiting a doctor’s office or shopping?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 1.3 – Disability Among Massachusetts Adults**, 2014** | | | | | |
|  | Have Disability¶  N % 95% CI | | | | |
| Overall | 14,760 | 30.7 | 29.5 | - | 31.8 |
| Gender |  |  |  |  |  |
| male | 5,917 | 27.9 | 26.2 | - | 29.6 |
| female | 8,843 | 33.2 | 31.6 | - | 34.8 |
| Age Group |  |  |  |  |  |
| 18–24 | 623 | 26.3 | 21.7 | - | 30.9 |
| 25–34 | 1,207 | 21.7 | 18.6 | - | 24.8 |
| 35–44 | 1,528 | 22.9 | 20.0 | - | 25.9 |
| 45–54 | 2,432 | 30.6 | 28.0 | - | 33.3 |
| 55–64 | 3,324 | 33.8 | 31.4 | - | 36.1 |
| 65–74 | 3,077 | 40.2 | 37.5 | - | 42.9 |
| 75 and older | 2,279 | 52.8 | 49.6 | - | 55.9 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 12,165 | 30.9 | 29.6 | - | 32.2 |
| black | 745 | 31.2 | 26.1 | - | 36.4 |
| hispanic | 803 | 40.0 | 35.0 | - | 45.0 |
| asian | 317 | 13.0 | 8.3 | - | 17.6 |
| Education |  |  |  |  |  |
| < high school | 913 | 53.8 | 48.6 | - | 59.1 |
| high school | 3,362 | 35.4 | 32.8 | - | 37.9 |
| college 1–3 yrs | 3,565 | 31.4 | 29.1 | - | 33.6 |
| college 4+ yrs | 6,841 | 19.8 | 18.5 | - | 21.0 |
| Household Income |  |  |  |  |  |
| <$25,000 | 3,217 | 55.2 | 52.1 | - | 58.2 |
| $25,000–34,999 | 1,201 | 36.6 | 32.1 | - | 41.1 |
| $35,000–49,999 | 1,636 | 27.6 | 24.3 | - | 30.9 |
| $50,000–74,999 | 1,823 | 20.7 | 18.0 | - | 23.4 |
| $75,000+ | 4,643 | 17.3 | 15.7 | - | 18.9 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | |

# Section 2: Health Care Access and Utilization

## Section 2.1: Health Insurance Status

All respondents were asked if they had any type of health care coverage at the time of the interview. Those who indicated that they had no coverage were asked a follow-up question to be certain that they had considered all types of health care coverage. This included health care coverage from their employer or someone else’s employer, a plan that they had bought on their own, Medicare, MassHealth, Commonwealth Care, and coverage through the military, or the Indian Health Service. CDC estimates of uninsured adults, based solely upon the CDC core health insurance question, may differ from estimates derived from the Massachusetts BRFSS estimates, which were based on the CDC core health insurance question and the Massachusetts follow-up question. Table 2.1 presents the Massachusetts BRFSS data.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 2.1 –Health Insurance Status Among Massachusetts Adults,  Ages 18-64, 2014 | | | | | |
|  | No Health Insurance  N % 95% CI | | | | |
| Overall | 9,373 | 3.2 | 2.6 | -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - | 3.8 |
| Gender |  |  |  |  |  |
| male | 3,929 | 4.9 | 3.7 | - | 6.0 |
| female | 5,444 | 1.6 | 1.1 | - | 2.1 |
| Age Group |  |  |  |  |  |
| 18–24 | 619 | 3.1 | 1.4 | - | 4.8 |
| 25–34 | 1,181 | 4.8 | 3.0 | - | 6.6 |
| 35–44 | 1,586 | 3.7 | 2.1 | - | 5.2 |
| 45–54 | 2,536 | 2.8 | 1.8 | - | 3.7 |
| 55–64 | 3,451 | 1.7 | 0.9 | - | 2.5 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 7,476 | 2.3 | 1.7 | - | 2.8 |
| black | † |  |  |  |  |
| hispanic | 718 | 6.6 | 3.9 | - | 9.3 |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 2,709 | 3.6 | 2.5 | - | 4.7 |
| no disability | 6,142 | 2.9 | 2.2 | - | 3.7 |
| Education |  |  |  |  |  |
| < high school | 500 | 6.6 | 3.3 | - | 9.9 |
| high school | 1,904 | 4.8 | 3.3 | - | 6.3 |
| college 1–3 yrs | 2,218 | 3.1 | 2.0 | - | 4.1 |
| college 4+ yrs | 4,652 | 1.1 | 0.8 | - | 1.5 |
| Household Income |  |  |  |  |  |
| <$25,000 | 1,755 | 6.9 | 4.7 | - | 9.0 |
| $25,000–34,999 | 625 | 4.2 | 2.1 | - | 6.3 |
| $35,000–49,999 | 904 | 5.8 | 3.2 | - | 8.3 |
| $50,000–74,999 | † |  |  |  |  |
| $75,000+ | † |  |  |  |  |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 2.2: Health Care Access

All respondents were asked if they had a person that they thought of as their personal doctor or health care provider. All respondents were also asked whether they were unable to see a doctor at any time in the past year due to cost and about how long since they last visited a doctor for a routine checkup. Presented here are the percentages of adults who reported that they did not have a personal health care provider, the percentages of adults who reported that cost had prevented them from seeing a doctor at some point in the past year, and the percentage of adults who had visited a medical provider for a checkup in the past year.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 2.2 – Health Care Access Among Massachusetts **Adults,** 2014 | | | | | | | | | | |
|  | Have Personal Health Care Provider  N % 95% CI | | | | | Could Not See Doctor Due to Cost  N % 95% CI | | | | |
|  |
|  |
| Overall | 15,592 | 89.3 | 88.4 | - | 90.2 | 15,622 | 8.3 | 7.6 | - | 9.1 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 6,239 | 85.1 | 83.6 | - | 86.6 | 6,255 | 8.9 | 7.7 | - | 10.1 |
| female | 9,353 | 93.1 | 92.2 | - | 94.0 | 9,367 | 7.8 | 6.9 | - | 8.8 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 672 | 78.3 | 74.5 | - | 82.2 | 680 | 8.4 | 5.8 | - | 11.0 |
| 25–34 | 1,276 | 77.1 | 74.0 | - | 80.1 | 1,285 | 12.0 | 9.6 | - | 14.5 |
| 35–44 | 1,622 | 89.5 | 87.3 | - | 91.7 | 1,624 | 9.5 | 7.3 | - | 11.8 |
| 45–54 | 2,569 | 94.1 | 92.8 | - | 95.4 | 2,564 | 10.4 | 8.6 | - | 12.2 |
| 55–64 | 3,480 | 95.5 | 94.3 | - | 96.6 | 3,482 | 7.3 | 5.8 | - | 8.8 |
| 65–74 | 3,218 | 96.9 | 96.0 | - | 97.9 | 3,221 | 3.6 | 2.6 | - | 4.6 |
| 75 and older | 2,414 | 96.8 | 95.5 | - | 98.0 | 2,422 | 3.1 | 2.1 | - | 4.2 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 12,761 | 91.5 | 90.6 | - | 92.4 | 12,787 | 6.8 | 6.0 | - | 7.6 |
| black | 807 | 88.5 | 84.5 | - | 92.4 | 808 | 11.2 | 7.6 | - | 14.7 |
| hispanic | 865 | 83.1 | 79.3 | - | 86.9 | 863 | 18.2 | 14.3 | - | 22.0 |
| asian | 346 | 85.1 | 79.8 | - | 90.3 | 348 | 7.2 | 3.5 | - | 10.8 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 5,323 | 92.1 | 90.8 | - | 93.4 | 5,332 | 14.4 | 12.6 | - | 16.3 |
| no disability | 9,386 | 88.6 | 87.5 | - | 89.7 | 9,398 | 5.5 | 4.7 | - | 6.3 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 976 | 85.0 | 81.1 | - | 88.9 | 978 | 17.6 | 13.5 | - | 21.7 |
| high school | 3,573 | 87.6 | 85.7 | - | 89.6 | 3,580 | 9.6 | 8.0 | - | 11.2 |
| college 1–3 yrs | 3,726 | 89.4 | 87.8 | - | 91.1 | 3,729 | 8.2 | 6.9 | - | 9.6 |
| college 4+ yrs | 7,117 | 92.1 | 91.2 | - | 93.1 | 7,131 | 4.4 | 3.7 | - | 5.0 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 3,358 | 84.6 | 82.2 | - | 86.9 | 3,370 | 15.4 | 13.0 | - | 17.8 |
| $25,000–34,999 | 1,266 | 89.9 | 87.0 | - | 92.7 | 1,266 | 11.6 | 8.9 | - | 14.4 |
| $35,000–49,999 | 1,690 | 87.2 | 84.2 | - | 90.2 | 1,686 | 9.8 | 7.3 | - | 12.3 |
| $50,000–74,999 | 1,882 | 90.5 | 88.2 | - | 92.7 | 1,882 | 7.5 | 5.4 | - | 9.5 |
| $75,000+ | 4,800 | 93.8 | 92.7 | - | 95.0 | 4,808 | 3.0 | 2.3 | - | 3.7 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 2.2 (Continued) - Health Care Access Among Massachusetts Adults, 2014 | | | | | |
|  | Had a Routine Checkup in the Past Year  N % 95% CI | | | | |
| Overall | 15,457 | 78.5 | 77.4 | - | 79.5 |
| Gender |  |  |  |  |  |
| male | 6,195 | 74.6 | 72.9 | - | 76.3 |
| female | 9,262 | 82.0 | 80.6 | - | 83.3 |
| Age Group |  |  |  |  |  |
| 18–24 | 669 | 73.8 | 69.6 | - | 78.0 |
| 25–34 | 1,274 | 65.7 | 62.4 | - | 69.1 |
| 35–44 | 1,604 | 72.9 | 69.9 | - | 75.9 |
| 45–54 | 2,544 | 77.3 | 75.0 | - | 79.7 |
| 55–64 | 3,459 | 85.2 | 83.5 | - | 86.9 |
| 65–74 | 3,190 | 91.8 | 90.5 | - | 93.0 |
| 75 and older | 2,379 | 92.6 | 91.0 | - | 94.2 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 12,651 | 79.4 | 78.2 | - | 80.6 |
| black | 803 | 81.3 | 76.9 | - | 85.7 |
| hispanic | 854 | 80.0 | 76.0 | - | 84.0 |
| asian | 344 | 69.2 | 62.5 | - | 75.9 |
| Disability¶ |  |  |  |  |  |
| disability | 5,255 | 83.0 | 81.1 |  | 84.9 |
| no disability | 9,326 | 76.6 | 75.2 |  | 78.0 |
| Education |  |  |  |  |  |
| < high school | 964 | 82.7 | 78.6 | - | 86.7 |
| high school | 3,529 | 78.3 | 75.9 | - | 80.6 |
| college 1–3 yrs | 3,686 | 79.8 | 77.7 | - | 81.9 |
| college 4+ yrs | 7,080 | 76.3 | 74.8 | - | 77.7 |
| Household Income |  |  |  |  |  |
| <$25,000 | 3,328 | 80.0 | 77.5 | - | 82.5 |
| $25,000–34,999 | 1,250 | 79.8 | 76.0 | - | 83.5 |
| $35,000–49,999 | 1,679 | 75.0 | 71.5 | - | 78.6 |
| $50,000–74,999 | 1,864 | 76.7 | 73.5 | - | 79.9 |
| $75,000+ | 4,785 | 77.2 | 75.4 | - | 79.0 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | |

## Section 2.3: Oral Health

All respondents were asked how long it had been since they had last visited a dentist or a dental clinic. Presented here is the percentage reporting that they had been to a dentist or a dental clinic within the past year. The wording of the question did not differentiate between a routine cleaning and other types of dental work. All respondents were also asked how many of their teeth were missing due to decay or gum disease only. The number of teeth missing due to injury or orthodontic purposes is not included. Presented here is the percentage of adults with six or more teeth missing.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 2.3 – Dental Health Care Among Massachusetts Adults**,** 2014 | | | | | | | | | | |
|  | Dental Visit in Past Year  N % 95% CI | | | | | Six or More Teeth Missing  N % 95% CI | | | | |
|  |
|  |
| Overall | 15,367 | 74.7 | 73.6 | - | 75.8 | 15,049 | 15.6 | 14.7 | - | 16.4 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 6,161 | 72.1 | 70.4 | - | 73.9 | 6,053 | 15.0 | 13.8 | - | 16.3 |
| female | 9,206 | 77.1 | 75.7 | - | 78.5 | 8,996 | 16.1 | 14.9 | - | 17.2 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 668 | 80.1 | 76.6 | - | 83.6 | † |  |  |  |  |
| 25–34 | 1,267 | 69.9 | 66.5 | - | 73.2 | 1,279 | 4.2 | 2.5 | - | 5.9 |
| 35–44 | 1,608 | 74.6 | 71.6 | - | 77.7 | 1,603 | 8.4 | 6.2 | - | 10.6 |
| 45–54 | 2,547 | 76.0 | 73.6 | - | 78.5 | 2,537 | 12.6 | 10.6 | - | 14.7 |
| 55–64 | 3,441 | 76.5 | 74.4 | - | 78.7 | 3,371 | 21.9 | 19.7 | - | 24.0 |
| 65–74 | 3,165 | 75.7 | 73.3 | - | 78.2 | 3,040 | 35.5 | 32.7 | - | 38.3 |
| 75 and older | 2,337 | 67.1 | 64.0 | - | 70.2 | 2,241 | 45.4 | 42.2 | - | 48.7 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 12,588 | 76.4 | 75.2 | - | 77.6 | 12,317 | 16.4 | 15.4 | - | 17.4 |
| black | 793 | 65.6 | 60.3 | - | 70.9 | 774 | 20.4 | 16.2 | - | 24.7 |
| hispanic | 843 | 68.1 | 63.4 | - | 72.8 | 836 | 17.3 | 13.6 | - | 21.0 |
| asian | 341 | 74.9 | 68.6 | - | 81.2 | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 5,199 | 66.8 | 64.7 | - | 69.0 | 5,086 | 30.0 | 27.9 | - | 32.1 |
| no disability | 9,300 | 78.3 | 76.9 | - | 79.6 | 9,137 | 9.6 | 8.8 | - | 10.5 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 935 | 59.7 | 54.8 | - | 64.7 | 923 | 38.1 | 33.3 | - | 42.9 |
| high school | 3,488 | 67.7 | 65.3 | - | 70.2 | 3,388 | 22.1 | 20.2 | - | 24.0 |
| college 1–3 yrs | 3,663 | 74.6 | 72.5 | - | 76.8 | 3,584 | 14.0 | 12.6 | - | 15.4 |
| college 4+ yrs | 7,085 | 84.3 | 83.1 | - | 85.6 | 6,971 | 5.2 | 4.7 | - | 5.8 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 3,268 | 59.4 | 56.5 | - | 62.4 | 3,226 | 29.9 | 27.3 | - | 32.5 |
| $25,000–34,999 | 1,238 | 66.4 | 62.1 | - | 70.8 | 1,204 | 25.0 | 21.0 | - | 29.1 |
| $35,000–49,999 | 1,665 | 69.7 | 66.1 | - | 73.3 | 1,621 | 19.1 | 16.4 | - | 21.8 |
| $50,000–74,999 | 1,870 | 77.9 | 74.8 | - | 80.9 | 1,824 | 11.1 | 9.3 | - | 13.0 |
| $75,000+ | 4,792 | 86.0 | 84.5 | - | 87.5 | 4,743 | 5.8 | 4.9 | - | 6.8 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

# Section 3: Risk Factors and Preventive Behaviors

## Section 3.1: Tobacco Use

A current smoker was defined as someone who has smoked at least 100 cigarettes in his/her lifetime and who currently smokes either some days or every day. A former smoker was defined as someone who has smoked at least 100 cigarettes in his/her lifetime but no longer smokes. Presented here are the percentage of adults who reported being current smokers and the percentage of adults who reported being former smokers.

Respondents were asked if they currently use chewing tobacco, snuff, or snus (Swedish for snuff) every day, some days, or not at all. Presented is the percentage of adults who reported using chewing tobacco, snuff or snus either every day or some days.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 3.1.1 – Tobacco Use Among Massachusetts Adults**,** 2014 | | | | | | | | | | |
|  | Current Smoker  N % 95% CI | | | | | Former Smoker  N % 95% CI | | | | |
|  |
|  |
| Overall | 14,686 | 14.7 | 13.7 | - | 15.7 | 14,686 | 26.8 | 25.8 | - | 27.9 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 5,897 | 16.7 | 15.1 | - | 18.3 | 5,897 | 28.2 | 26.6 | - | 29.8 |
| female | 8,789 | 12.9 | 11.7 | - | 14.1 | 8,789 | 25.6 | 24.2 | - | 27.0 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 620 | 11.5 | 8.4 | - | 14.7 | 620 | 5.2 | 3.0 | - | 7.4 |
| 25–34 | 1,199 | 21.2 | 18.1 | - | 24.4 | 1,199 | 15.5 | 12.8 | - | 18.3 |
| 35–44 | 1,515 | 14.7 | 12.0 | - | 17.4 | 1,515 | 22.0 | 19.2 | - | 24.8 |
| 45–54 | 2,424 | 18.4 | 16.1 | - | 20.7 | 2,424 | 26.1 | 23.7 | - | 28.5 |
| 55–64 | 3,309 | 15.9 | 13.9 | - | 17.8 | 3,309 | 35.1 | 32.7 | - | 37.5 |
| 65–74 | 3,070 | 10.3 | 8.6 | - | 12.0 | 3,070 | 47.3 | 44.5 | - | 50.0 |
| 75 and older | 2,264 | 4.4 | 3.0 | - | 5.7 | 2,264 | 49.1 | 45.9 | - | 52.3 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 12,107 | 14.9 | 13.8 | - | 16.0 | 12,107 | 30.9 | 29.7 | - | 32.2 |
| black | 739 | 17.7 | 13.2 | - | 22.2 | 739 | 14.8 | 11.0 | - | 18.6 |
| hispanic | 796 | 16.9 | 12.9 | - | 20.8 | 796 | 13.6 | 10.4 | - | 16.7 |
| asian | 320 | 6.2 | 2.8 | - | 9.5 | 320 | 13.1 | 8.6 | - | 17.6 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 5,263 | 24.3 | 22.1 | - | 26.5 | 5,263 | 31.0 | 29.0 | - | 33.0 |
| no disability | 9,318 | 10.4 | 9.4 | - | 11.4 | 9,318 | 25.0 | 23.8 | - | 26.3 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 911 | 28.2 | 23.4 | - | 33.0 | 911 | 24.8 | 20.7 | - | 28.9 |
| high school | 3,347 | 20.1 | 18.0 | - | 22.3 | 3,347 | 29.6 | 27.2 | - | 31.9 |
| college 1–3 yrs | 3,551 | 16.1 | 14.2 | - | 17.9 | 3,551 | 28.5 | 26.4 | - | 30.6 |
| college 4+ yrs | 6,798 | 5.7 | 4.9 | - | 6.4 | 6,798 | 24.3 | 23.0 | - | 25.6 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 3,199 | 26.3 | 23.4 | - | 29.1 | 3,199 | 24.7 | 22.3 | - | 27.0 |
| $25,000–34,999 | 1,200 | 22.7 | 18.4 | - | 27.0 | 1,200 | 27.6 | 23.6 | - | 31.6 |
| $35,000–49,999 | 1,625 | 16.9 | 14.0 | - | 19.8 | 1,625 | 31.6 | 28.1 | - | 35.1 |
| $50,000–74,999 | 1,819 | 12.0 | 9.7 | - | 14.4 | 1,819 | 31.2 | 28.1 | - | 34.3 |
| $75,000+ | 4,623 | 6.7 | 5.7 | - | 7.8 | 4,623 | 27.5 | 25.7 | - | 29.2 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 3.1.2 - Smokeless Tobacco Use Among Massachusetts Adults, 2014 | | | | | |
|  | Use Smokeless tobacco  N % 95% CI | | | | |
| Overall | 14,776 | 1.5 | 1.2 | - | 1.8 |
| Gender |  |  |  |  |  |
| male | 5,921 | 2.5 | 1.8 | - | 3.1 |
| female | 8,855 | 0.6 | 0.4 | - | 0.9 |
| Age Group |  |  |  |  |  |
| 18–24 | † |  |  |  |  |
| 25–34 | 1,205 | 2.1 | 1.2 | - | 3.1 |
| 35–44 | 1,524 | 1.4 | 0.7 | - | 2.1 |
| 45–54 | 2,431 | 1.4 | 0.7 | - | 2.0 |
| 55–64 | 3,332 | 1.1 | 0.6 | - | 1.6 |
| 65–74 | 3,093 | 1.0 | 0.4 | - | 1.5 |
| 75 and older | † |  |  |  |  |
| Race-ethnicity\* |  |  |  |  |  |
| white | 12,180 | 1.5 | 1.1 | - | 1.9 |
| black | † |  |  |  |  |
| hispanic | † |  |  |  |  |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 5,296 | 1.9 | 1.1 |  | 2.7 |
| no disability | 9,372 | 1.3 | 1.0 |  | 1.7 |
| Education |  |  |  |  |  |
| < high school | 914 |  |  | - |  |
| high school | 3,367 | 1.6 | 0.9 | - | 2.2 |
| college 1–3 yrs | 3,567 | 1.1 | 0.6 | - | 1.7 |
| college 4+ yrs | 6,847 | 1.4 | 1.0 | - | 1.8 |
| Household Income |  |  |  |  |  |
| <$25,000 | 3,221 | 2.3 | 1.1 | - | 3.4 |
| $25,000–34,999 | † |  |  |  |  |
| $35,000–49,999 | † |  |  |  |  |
| $50,000–74,999 | † |  |  |  |  |
| $75,000+ | 4,643 | 1.5 | 1.0 | - | 2.0 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 3.2: Smoking Cessation

Respondents who were current smokers were asked if they had stopped smoking for one day or longer in the past 12 months because they were trying to quit smoking. They were also asked if they had any intention of trying to quit smoking within the next 30 days. Presented here is the percentage of adult current smokers who reported that they had attempted to quit smoking for one day or longer in the past 12 months and the percentage of adult current smokers who reported that they had plans to quit smoking within the next 30 days.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 3.2 – Smoking Cessation among Massachusetts Adults, 2014 | | | | | |
|  | Quit Attempt  N % 95% CI | | | | |
| Overall | 1,903 | 65.2 | 61.8 | - | 68.6 |
| Gender |  |  |  |  |  |
| male | 836 | 66.6 | 61.8 | - | 71.5 |
| female | 1,067 | 63.5 | 58.8 | - | 68.3 |
| Age Group |  |  |  |  |  |
| 18–24 | 74 | 70.6 | 58.3 | - | 82.9 |
| 25–34 | 215 | 70.6 | 62.5 | - | 78.8 |
| 35–44 | 206 | 70.5 | 61.9 | - | 79.2 |
| 45–54 | 436 | 58.4 | 51.4 | - | 65.5 |
| 55–64 | 530 | 66.2 | 60.0 | - | 72.4 |
| 65–74 | 321 | 61.3 | 53.0 | - | 69.6 |
| 75 and older | 99 | 34.9 | 20.6 | - | 49.2 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 1,541 | 61.0 | 57.0 | - | 65.0 |
| black | 124 | 73.7 | 61.4 | - | 86.1 |
| hispanic | 122 | 79.7 | 70.1 | - | 89.2 |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 992 | 67.2 | 62.2 |  | 72.1 |
| no disability | 898 | 62.6 | 57.9 |  | 67.4 |
| Education |  |  |  |  |  |
| < high school | 226 | 67.0 | 57.6 | - | 76.4 |
| high school | 639 | 62.8 | 57.1 | - | 68.5 |
| college 1–3 yrs | 583 | 66.6 | 60.8 | - | 72.3 |
| college 4+ yrs | 446 | 65.4 | 59.1 | - | 71.6 |
| Household Income |  |  |  |  |  |
| <$25,000 | 704 | 67.1 | 61.3 | - | 72.9 |
| $25,000–34,999 | 204 | 61.2 | 50.2 | - | 72.2 |
| $35,000–49,999 | 237 | 58.3 | 48.7 | - | 67.8 |
| $50,000–74,999 | 215 | 65.7 | 55.3 | - | 76.1 |
| $75,000+ | 295 | 67.6 | 60.2 | - | 75.0 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 3.3: Environmental Tobacco Smoke

Respondents were asked about rules regarding smoking in their households. Presented here is the percentage of adults reporting that no smoking was permitted anywhere in their household. Respondents were also asked about exposure to environmental tobacco smoke (ETS) at their home, work, or other places. Among the employed, ETS exposure was defined as any report of exposure to ETS at work, at home, or in other places in the past 7 days. Among those not employed, ETS exposure was defined as any exposure to ETS at home or in other places in the past 7 days.

**Questions about ETS were asked only on the MA BRFSS landline survey in 2014 and not the cell phone survey; therefore the results in Table 3.3 represent the landline sample only.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 3.3 – Environmental Tobacco Among Massachusetts Adults**,** 2014 | | | | | | | | | | |
|  | No Smoking Allowed in Household  N % 95% CI | | | | | Exposed to ETS  N % 95% CI | | | | |
|  |
|  |
| Overall | 7,217 | 81.0 | 79.0 | - | 83.0 | 7,058 | 34.6 | 32.1 | - | 37.2 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 2,650 | 78.6 | 75.3 | - | 81.9 | 2,584 | 38.2 | 34.4 | - | 42.1 |
| female | 4,567 | 83.2 | 80.8 | - | 85.6 | 4,474 | 31.3 | 28.0 | - | 34.6 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 138 | 84.9 | 77.7 | - | 92.0 | 130 | 56.1 | 45.1 | - | 67.1 |
| 25–34 | 300 | 77.7 | 71.2 | - | 84.1 | 297 | 52.3 | 44.5 | - | 60.0 |
| 35–44 | 625 | 85.0 | 79.8 | - | 90.3 | 616 | 34.4 | 28.4 | - | 40.4 |
| 45–54 | 1,124 | 76.5 | 71.9 | - | 81.2 | 1,101 | 30.5 | 26.1 | - | 35.0 |
| 55–64 | 1,724 | 80.0 | 76.2 | - | 83.8 | 1,699 | 26.2 | 22.1 | - | 30.2 |
| 65–74 | 1,769 | 81.5 | 78.2 | - | 84.8 | 1,733 | 21.3 | 18.1 | - | 24.6 |
| 75 and older | 1,410 | 83.8 | 80.7 | - | 86.9 | 1,364 | 11.8 | 9.1 | - | 14.5 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 6,229 | 81.1 | 78.8 | - | 83.3 | 6,111 | 34.0 | 31.2 | - | 36.9 |
| black | 352 | 74.8 | 66.2 | - | 83.4 | 337 | 43.4 | 33.4 | - | 53.3 |
| hispanic | 314 | 79.0 | 71.4 | - | 86.6 | 297 | 40.1 | 30.5 | - | 49.6 |
| asian | 133 | 96.5 | 92.3 | - | 100 | 131 | 20.2 | 9.4 | - | 31.0 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 2,814 | 74.1 | 70.4 | - | 77.9 | 2,723 | 40.5 | 36.1 | - | 45.0 |
| no disability | 4,355 | 84.4 | 82.0 | - | 86.7 | 4,291 | 31.7 | 28.6 | - | 34.7 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 454 | 68.4 | 60.2 | - | 76.7 | 415 | 38.4 | 29.6 | - | 47.2 |
| high school | 1,720 | 74.1 | 69.4 | - | 78.8 | 1,662 | 41.6 | 36.1 | - | 47.1 |
| college 1–3 yrs | 1,725 | 78.7 | 74.8 | - | 82.6 | 1,692 | 38.2 | 33.0 | - | 43.5 |
| college 4+ yrs | 3,289 | 91.5 | 89.9 | - | 93.1 | 3,262 | 26.1 | 23.0 | - | 29.1 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 1,635 | 69.0 | 63.9 | - | 74.1 | 1,558 | 46.0 | 40.4 | - | 51.7 |
| $25,000–34,999 | 622 | 71.6 | 61.7 | - | 81.5 | 606 | 33.8 | 24.7 | - | 42.9 |
| $35,000–49,999 | 830 | 74.8 | 67.7 | - | 81.9 | 823 | 31.5 | 24.2 | - | 38.9 |
| $50,000–74,999 | 871 | 80.4 | 74.1 | - | 86.7 | 865 | 31.8 | 24.6 | - | 39.1 |
| $75,000+ | 2,125 | 92.2 | 90.5 | - | 94.0 | 2,112 | 29.0 | 25.0 | - | 33.1 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 3.4: Alcohol Use

All respondents were asked about their consumption of alcohol in the past month. A drink of alcohol was defined as a twelve ounce can or bottle of beer, one five ounce glass of wine, or one drink with one shot of liquor. Binge drinking was defined as consumption of five or more drinks for men or four or more drinks for women, on any one occasion in the past month. Heavy drinking was defined as consumption of more than 60 drinks in the past month for men and consumption of more than 30 drinks in the past month for women. Presented here are the percentage of adults who reported binge drinking and the percentage of adults who reported heavy drinking.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 3.4 – Alcohol Use Among Massachusetts Adults**,** 2014 | | | | | | | | | | |
|  | Binge Drinking  N % 95% CI | | | | | Heavy Drinking  N % 95% CI | | | | |
|  |
|  |
| Overall | 14,343 | 17.4 | 16.4 | - | 18.4 | 14,290 | 7.0 | 6.3 | - | 7.6 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 5,719 | 23.0 | 21.3 | - | 24.7 | 5,691 | 7.2 | 6.2 | - | 8.2 |
| female | 8,624 | 12.4 | 11.2 | - | 13.5 | 8,599 | 6.8 | 6.0 | - | 7.6 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 601 | 26.6 | 22.6 | - | 30.6 | 597 | 8.0 | 5.6 | - | 10.4 |
| 25–34 | 1,160 | 31.3 | 27.9 | - | 34.8 | 1,163 | 9.1 | 7.0 | - | 11.2 |
| 35–44 | 1,474 | 19.6 | 16.9 | - | 22.3 | 1,478 | 5.7 | 4.2 | - | 7.2 |
| 45–54 | 2,364 | 16.9 | 14.8 | - | 19.1 | 2,363 | 8.1 | 6.6 | - | 9.6 |
| 55–64 | 3,252 | 11.4 | 9.8 | - | 13.0 | 3,238 | 6.7 | 5.5 | - | 7.9 |
| 65–74 | 3,016 | 6.9 | 5.4 | - | 8.3 | 2,993 | 6.2 | 4.9 | - | 7.5 |
| 75 and older | 2,218 | 1.9 | 1.2 | - | 2.7 | 2,200 | 3.8 | 2.7 | - | 4.8 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 11,876 | 17.8 | 16.7 | - | 19.0 | 11,832 | 7.9 | 7.1 | - | 8.7 |
| black | 704 | 14.2 | 10.0 | - | 18.4 | 704 | 3.3 | 1.5 | - | 5.1 |
| hispanic | 765 | 14.2 | 10.5 | - | 17.9 | 753 | 4.6 | 2.4 | - | 6.8 |
| asian | 311 | 10.4 | 5.7 | - | 15.1 | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 5,149 | 12.9 | 11.3 | - | 14.6 | 5,128 | 7.5 | 6.2 | - | 8.7 |
| no disability | 9,092 | 19.4 | 18.1 | - | 20.6 | 9,058 | 6.7 | 6.0 | - | 7.5 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 875 | 11.8 | 8.3 | - | 15.4 | 864 | 5.5 | 3.2 | - | 7.9 |
| high school | 3,249 | 15.7 | 13.6 | - | 17.8 | 3,243 | 6.0 | 4.7 | - | 7.2 |
| college 1–3 yrs | 3,453 | 18.8 | 16.7 | - | 21.0 | 3,439 | 8.1 | 6.7 | - | 9.6 |
| college 4+ yrs | 6,698 | 19.3 | 17.9 | - | 20.7 | 6,675 | 7.3 | 6.5 | - | 8.2 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 3,129 | 13.2 | 11.0 | - | 15.4 | 3,114 | 5.2 | 3.8 | - | 6.6 |
| $25,000–34,999 | 1,180 | 17.0 | 13.3 | - | 20.7 | 1,175 | 7.3 | 5.0 | - | 9.7 |
| $35,000–49,999 | 1,591 | 17.7 | 14.4 | - | 21.0 | 1,584 | 7.0 | 5.0 | - | 8.9 |
| $50,000–74,999 | 1,790 | 20.0 | 17.1 | - | 22.9 | 1,784 | 7.1 | 5.3 | - | 9.0 |
| $75,000+ | 4,534 | 22.5 | 20.7 | - | 24.3 | 4,530 | 8.8 | 7.6 | - | 9.9 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 3.5: Overweight and Obesity Status

All respondents were asked to report their height and weight. Respondents’ overweight status and obesity status were categorized based on their Body Mass Index (BMI), which equals weight in kilograms divided by height in meters squared. All adults with a BMI between 25.0 and 29.9 were classified as being overweight and adults with a BMI greater than or equal to 30.0 were classified as being obese. Presented here are the percentages of adults who were defined as overweight and obese. Please note that the overweight category includes all adults with a BMI of greater than 25.0, including those who are obese.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 3.5 – Overweight and Obese Among Massachusetts Adults**,** 2014 | | | | | | | | | | |
|  | Overweight (BMI ≥ 25.0)  N % 95% CI | | | | | Obese (BMI ≥ 30.0)  N % 95% CI | | | | |
|  |
|  |
| Overall | 14,394 | 58.9 | 57.6 | - | 60.2 | 14,394 | 23.3 | 22.3 | - | 24.4 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 6,026 | 66.7 | 64.9 | - | 68.6 | 6,026 | 23.6 | 22.0 | - | 25.2 |
| female | 8,368 | 51.1 | 49.3 | - | 52.9 | 8,368 | 23.0 | 21.6 | - | 24.5 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 618 | 38.9 | 34.1 | - | 43.8 | 618 | 10.6 | 7.8 | - | 13.5 |
| 25–34 | 1,148 | 52.9 | 49.2 | - | 56.6 | 1,148 | 18.6 | 15.8 | - | 21.5 |
| 35–44 | 1,502 | 59.9 | 56.5 | - | 63.3 | 1,502 | 24.4 | 21.5 | - | 27.4 |
| 45–54 | 2,388 | 66.7 | 64.1 | - | 69.3 | 2,388 | 30.3 | 27.6 | - | 33.0 |
| 55–64 | 3,243 | 67.4 | 65.1 | - | 69.7 | 3,243 | 28.4 | 26.1 | - | 30.6 |
| 65–74 | 3,013 | 69.1 | 66.5 | - | 71.7 | 3,013 | 31.4 | 28.7 | - | 34.1 |
| 75 and older | 2,285 | 54.8 | 51.6 | - | 58.0 | 2,285 | 17.1 | 14.7 | - | 19.5 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 11,875 | 59.5 | 58.1 | - | 60.9 | 11,875 | 22.9 | 21.7 | - | 24.0 |
| black | 734 | 71.8 | 66.6 | - | 77.0 | 734 | 34.3 | 28.9 | - | 39.7 |
| hispanic | 764 | 63.9 | 58.8 | - | 69.0 | 764 | 32.6 | 27.6 | - | 37.6 |
| asian | 321 | 33.7 | 27.2 | - | 40.2 | 321 | 5.6 | 2.4 | - | 8.8 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 5,005 | 65.4 | 63.1 | - | 67.8 | 5,005 | 33.2 | 31.0 | - | 35.4 |
| no disability | 8,814 | 56.6 | 55.0 | - | 58.2 | 8,814 | 19.3 | 18.0 | - | 20.5 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 891 | 62.2 | 56.9 | - | 67.5 | 891 | 30.2 | 25.5 | - | 34.9 |
| high school | 3,301 | 62.5 | 59.7 | - | 65.2 | 3,301 | 26.4 | 24.1 | - | 28.7 |
| college 1–3 yrs | 3,473 | 61.2 | 58.6 | - | 63.8 | 3,473 | 26.1 | 24.0 | - | 28.2 |
| college 4+ yrs | 6,674 | 53.5 | 51.8 | - | 55.2 | 6,674 | 17.0 | 15.8 | - | 18.2 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 3,177 | 60.2 | 57.1 | - | 63.3 | 3,177 | 30.3 | 27.5 | - | 33.1 |
| $25,000–34,999 | 1,207 | 61.4 | 56.9 | - | 65.9 | 1,207 | 24.9 | 20.9 | - | 28.9 |
| $35,000–49,999 | 1,594 | 64.6 | 60.8 | - | 68.3 | 1,594 | 27.1 | 23.8 | - | 30.5 |
| $50,000–74,999 | 1,796 | 61.3 | 57.6 | - | 65.0 | 1,796 | 25.0 | 22.0 | - | 28.0 |
| $75,000+ | 4,587 | 58.3 | 56.2 | - | 60.4 | 4,587 | 19.5 | 17.9 | - | 21.0 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 3.6: Physical Activity

In 2014, all respondents were asked if during the past month, other than their regular job, they participated in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise. Presented here is the percentage of adults who participated in any leisure time physical activity in the last 30 days.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 3.6 - Any Leisure Time Physical Activity among Massachusetts Adults, 2014 | | | | | |
|  | Exercised in the past month  N % 95% CI | | | | |
| Overall | 15,632 | 79.9 | 78.9 | - | 80.9 |
| Gender |  |  |  |  |  |
| male | 6,257 | 81.9 | 80.4 | - | 83.4 |
| female | 9,375 | 78.1 | 76.7 | - | 79.5 |
| Age Group |  |  |  |  |  |
| 18–24 | 679 | 87.1 | 83.6 | - | 90.5 |
| 25–34 | 1,286 | 83.0 | 80.1 | - | 85.9 |
| 35–44 | 1,626 | 82.2 | 79.5 | - | 84.9 |
| 45–54 | 2,573 | 79.6 | 77.2 | - | 82.0 |
| 55–64 | 3,483 | 79.5 | 77.5 | - | 81.6 |
| 65–74 | 3,224 | 76.2 | 73.7 | - | 78.8 |
| 75 and older | 2,420 | 64.1 | 61.1 | - | 67.1 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 12,786 | 82.0 | 80.9 | - | 83.1 |
| black | 809 | 74.6 | 69.6 | - | 79.6 |
| hispanic | 869 | 67.2 | 62.5 | - | 71.9 |
| asian | 350 | 79.0 | 73.1 | - | 84.9 |
| Disability¶ |  |  |  |  |  |
| disability | 5,333 | 66.2 | 64.0 | - | 68.4 |
| no disability | 9,409 | 86.1 | 85.0 | - | 87.3 |
| Education |  |  |  |  |  |
| < high school | 980 | 59.8 | 55.0 | - | 64.7 |
| high school | 3,583 | 72.3 | 70.0 | - | 74.6 |
| college 1–3 yrs | 3,733 | 81.4 | 79.6 | - | 83.3 |
| college 4+ yrs | 7,132 | 90.8 | 89.9 | - | 91.7 |
| Household Income |  |  |  |  |  |
| <$25,000 | 3,372 | 65.1 | 62.3 | - | 68.0 |
| $25,000–34,999 | 1,268 | 76.0 | 72.3 | - | 79.7 |
| $35,000–49,999 | 1,691 | 78.9 | 75.5 | - | 82.2 |
| $50,000–74,999 | 1,884 | 83.9 | 81.1 | - | 86.6 |
| $75,000+ | 4,810 | 90.7 | 89.6 | - | 91.9 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | |

# Section 4: Immunization

## Section 4.1: Flu Vaccine and Pneumonia Vaccine

All respondents were asked if they had received an influenza vaccine (flu shot) or nasal flu spray (flu mist) within the past 12 months. In addition, all respondents were asked if they had ever received a pneumonia vaccine. Presented here are the percentages of adults ages 18-49 years, 50-64 years and ages 65 and older who received a flu vaccine or spray in the past year, and the percentage of adults, ages 65 and older, who reported that they had ever had a pneumonia vaccination.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 4.1.1 – Flu Vaccine Among Massachusetts Adults, Ages 18-64, 2014** | | | | | | | | | | |
| N % 95% CI | Flu vaccine in past year, Ages 18-49  N % 95% CI | | | | | Flu vaccine in past year, Ages 50-64  N % 95% CI | | | | |
|  |
|  |
| Overall | 4,333 | 37.5 | 35.5 | - | 39.5 | 4,663 | 45.6 | 43.5 | - | 47.8 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 1,867 | 32.6 | 29.8 | - | 35.4 | 1,899 | 44.6 | 41.4 | - | 47.8 |
| female | 2,466 | 42.3 | 39.6 | - | 45.1 | 2,744 | 46.6 | 43.8 | - | 49.4 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 608 | 35.0 | 30.2 | - | 39.9 |  |  |  |  |  |
| 25–34 | 1,188 | 37.3 | 33.7 | - | 40.8 |  |  |  |  |  |
| 35–44 | 1,495 | 38.1 | 34.9 | - | 41.4 |  |  |  |  |  |
| 45–49 | 1,042 | 41.1 | 37.0 | - | 45.2 |  |  |  |  |  |
| 50–64 |  |  |  |  |  | 4,663 | 45.6 | 43.5 | - | 47.8 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 3,072 | 36.8 | 34.4 | - | 39.2 | 3,961 | 45.7 | 43.5 | - | 48.0 |
| black | 313 | 40.7 | 32.9 | - | 48.6 | 205 | 39.5 | 29.5 | - | 49.5 |
| hispanic | 426 | 42.3 | 35.9 | - | 48.8 | 235 | 47.2 | 37.3 | - | 57.0 |
| asian | 209 | 35.1 | 27.2 | - | 43.0 | 69 | 53.2 | 36.4 | - | 70.1 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 1,054 | 38.9 | 34.5 | - | 43.2 | 1,637 | 52.4 | 48.6 | - | 56.2 |
| no disability | 3,256 | 37.2 | 35.0 | - | 39.5 | 2,974 | 42.2 | 39.6 | - | 44.7 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 210 | 36.1 | 27.4 | - | 44.7 | 250 | 45.2 | 36.3 | - | 54.1 |
| high school | 792 | 29.1 | 24.8 | - | 33.3 | 986 | 40.0 | 35.5 | - | 44.6 |
| college 1–3 yrs | 1,056 | 34.2 | 30.4 | - | 38.0 | 1,092 | 44.8 | 40.5 | - | 49.0 |
| college 4+ yrs | 2,258 | 45.9 | 43.4 | - | 48.5 | 2,300 | 50.1 | 47.4 | - | 52.8 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 761 | 33.5 | 28.6 | - | 38.5 | 929 | 42.8 | 37.4 | - | 48.1 |
| $25,000–34,999 | 301 | 37.6 | 30.2 | - | 45.0 | 299 | 37.2 | 29.0 | - | 45.4 |
| $35,000–49,999 | 430 | 32.3 | 26.5 | - | 38.1 | 445 | 44.1 | 37.2 | - | 51.1 |
| $50,000–74,999 | 503 | 32.0 | 26.6 | - | 37.4 | 615 | 47.0 | 41.0 | - | 53.0 |
| $75,000+ | 1,796 | 44.8 | 41.7 | - | 47.9 | 1,819 | 46.8 | 43.7 | - | 49.9 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 4.1.2 – Flu Vaccine Among Massachusetts Adults, Ages 65 Years and Older, 2014** | | | | | |
|  | Flu vaccine in past year, Ages 65+  N % 95% CI | | | | |
| Overall | 5,302 | 57.8 | 55.7 | - | 59.8 |
| Gender |  |  |  |  |  |
| male | 1,967 | 58.1 | 54.8 | - | 61.4 |
| female | 3,335 | 57.5 | 54.9 | - | 60.1 |
| Age Group |  |  |  |  |  |
| 65–74 | 3,053 | 56.1 | 53.3 | - | 58.8 |
| 75 and older | 2,249 | 60.0 | 56.8 | - | 63.1 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 4,768 | 57.9 | 55.7 | - | 60.0 |
| black | 195 | 41.2 | 30.1 | - | 52.4 |
| hispanic | 128 | 72.2 | 60.1 | - | 84.3 |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 2,455 | 58.4 | 55.2 | - | 61.6 |
| no disability | 2,797 | 57.4 | 54.6 | - | 60.1 |
| Education |  |  |  |  |  |
| < high school | 434 | 54.8 | 46.9 | - | 62.6 |
| high school | 1,472 | 54.4 | 50.6 | - | 58.2 |
| college 1–3 yrs | 1,309 | 57.3 | 53.4 | - | 61.2 |
| college 4+ yrs | 2,063 | 63.7 | 60.9 | - | 66.5 |
| Household Income |  |  |  |  |  |
| <$25,000 | 1,450 | 57.5 | 53.2 | - | 61.9 |
| $25,000–34,999 | 584 | 57.3 | 50.9 | - | 63.7 |
| $35,000–49,999 | 721 | 59.3 | 53.8 | - | 64.8 |
| $50,000–74,999 | 653 | 57.4 | 51.3 | - | 63.5 |
| $75,000+ | 912 | 60.5 | 56.2 | - | 64.7 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 4.1.3 – Pneumonia Vaccine Among Massachusetts Adults, Ages 65 Years and Older, 2014** | | | | | |
|  | Ever had Pneumonia Vaccine  N % 95% CI | | | | |
|
| Overall | 4,981 | 71.9 | 70.0 | - | 73.8 |
| Gender |  |  |  |  |  |
| male | 1,796 | 67.0 | 63.7 | - | 70.3 |
| female | 3,185 | 75.4 | 73.1 | - | 77.6 |
| Age Group |  |  |  |  |  |
| 65–74 | 2,854 | 66.6 | 64.0 | - | 69.3 |
| 75 and older | 2,127 | 78.5 | 75.8 | - | 81.2 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 4,495 | 72.7 | 70.7 | - | 74.7 |
| black | 179 | 66.3 | 55.2 | - | 77.4 |
| hispanic | 111 | 58.7 | 44.1 | - | 73.2 |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 2,315 | 74.2 | 71.2 | - | 77.2 |
| no disability | 2,623 | 69.9 | 67.3 | - | 72.4 |
| Education |  |  |  |  |  |
| < high school | 399 | 69.7 | 62.2 | - | 77.2 |
| high school | 1,395 | 72.6 | 69.1 | - | 76.0 |
| college 1–3 yrs | 1,248 | 73.1 | 69.5 | - | 76.7 |
| college 4+ yrs | 1,916 | 71.4 | 68.6 | - | 74.1 |
| Household Income |  |  |  |  |  |
| <$25,000 | 1,373 | 75.0 | 71.0 | - | 78.9 |
| $25,000–34,999 | 560 | 76.1 | 70.5 | - | 81.8 |
| $35,000–49,999 | 681 | 70.6 | 65.2 | - | 76.1 |
| $50,000–74,999 | 626 | 74.0 | 69.2 | - | 78.9 |
| $75,000+ | 836 | 67.9 | 63.6 | - | 72.2 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 4.2: Human Papilloma Virus (HPV) Vaccination

All respondents between the ages of 18-34 were asked if they had ever received the HPV vaccine; if they responded yes, they were then asked how many HPV shots they had received. Presented are the percentage of females aged 18-34 who had ever received the HPV vaccine and the percentage of those who had completed the series of three shots. Percentages for males are not presented due to insufficient data.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 4.2 – HPV Vaccine Among Massachusetts Females, Ages 18-34 Years,** 2014 | | | | | | | | | | |
|  | Ever had HPV Vaccine  N % 95% CI | | | | | Completed Series \*\*    N % 95% CI | | | | |
|  |
|  |
| Overall | 359 | 47.6 | 40.1 | - | 55.1 | 147 | 79.8 | 71.2 | - | 88.4 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 98 | 66.8 | 54.8 | - | 78.9 | 64 | 78.8 | 66.8 | - | 90.8 |
| 25–34 | 261 | 32.7 | 24.5 | - | 40.9 | 83 | 81.4 | 69.8 | - | 93.0 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 249 | 48.9 | 39.5 | - | 58.4 | 107 | 88.2 | 79.7 | - | 96.6 |
| black | † |  |  |  |  | † |  |  |  |  |
| hispanic | † |  |  |  |  | † |  |  |  |  |
| asian | † |  |  |  |  | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 96 | 42.4 | 27.3 | - | 57.5 | † |  |  |  |  |
| no disability | 263 | 49.8 | 41.3 | - | 58.3 | 110 | 81.0 | 71.0 | - | 91.0 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | † |  |  |  |  | † |  |  |  |  |
| high school | 59 | 31.0 | 14.0 | - | 48.0 | † |  |  |  |  |
| college 1–3 yrs | 124 | 56.0 | 44.1 | - | 67.9 | 52 | 82.7 | 70.3 | - | 95.0 |
| college 4+ yrs | 156 | 53.1 | 42.2 | - | 64.1 | 71 | 86.0 | 74.9 | - | 97.1 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 80 | 28.8 | 16.1 | - | 41.4 | † |  |  |  |  |
| $25,000–34,999 | † |  |  |  |  | † |  |  |  |  |
| $35,000–49,999 | † |  |  |  |  | † |  |  |  |  |
| $50,000–74,999 | † |  |  |  |  | † |  |  |  |  |
| $75,000+ | 121 | 54.8 | 41.9 | - | 67.7 | † |  |  |  |  |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability  \*\* Analysis conducted among those who reported ever having had vaccine | | | | | | | | | | |

## Section 4.3: Hepatitis B Virus (HBV) Vaccination

All respondents were asked if they had ever received the Hepatitis B vaccine. They were told to respond yes only if they had received the entire series of 3 shots. Presented below is the percentage of adults who reported that they had ever received the Hepatitis B vaccine.

**Questions about HBV vaccination were asked only on the MA BRFSS landline survey in 2014 and not the cell phone survey; therefore the results in Table 4.3 represent the landline sample only.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 4.3 – Hepatitis B Vaccine Among Massachusetts Adults**, 2014 | | | | | |
|  | Received 3 shots HBV Vaccine  N % 95% CI | | | | |
| Overall | 8,876 | 41.3 | 39.0 | - | 43.5 |
| Gender |  |  |  |  |  |
| male | 3,187 | 38.7 | 35.3 | - | 42.2 |
| female | 5,689 | 43.6 | 40.8 | - | 46.5 |
| Age Group |  |  |  |  |  |
| 18–24 | 146 | 57.3 | 47.3 | - | 67.4 |
| 25–34 | 391 | 66.1 | 59.7 | - | 72.5 |
| 35–44 | 754 | 50.7 | 45.1 | - | 56.4 |
| 45–54 | 1,336 | 38.8 | 34.6 | - | 43.0 |
| 55–64 | 2,131 | 28.9 | 25.7 | - | 32.0 |
| 65–74 | 2,204 | 22.4 | 19.5 | - | 25.4 |
| 75 and older | 1,749 | 7.0 | 5.3 | - | 8.6 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 7,686 | 37.8 | 35.4 | - | 40.3 |
| black | 436 | 54.0 | 45.5 | - | 62.6 |
| hispanic | 356 | 50.7 | 41.6 | - | 59.7 |
| asian | 133 | 65.9 | 54.4 | - | 77.5 |
| Disability¶ |  |  |  |  |  |
| disability | 3,478 | 36.2 | 32.3 |  | 40.0 |
| no disability | 5,342 | 44.1 | 41.4 |  | 46.9 |
| Education |  |  |  |  |  |
| < high school | 554 | 27.4 | 20.2 | - | 34.7 |
| high school | 2,174 | 32.5 | 27.7 | - | 37.2 |
| college 1–3 yrs | 2,154 | 45.5 | 41.0 | - | 50.0 |
| college 4+ yrs | 3,951 | 48.8 | 45.8 | - | 51.7 |
| Household Income |  |  |  |  |  |
| <$25,000 | 2,073 | 35.5 | 30.4 | - | 40.6 |
| $25,000–34,999 | 776 | 41.6 | 33.2 | - | 49.9 |
| $35,000–49,999 | 1,011 | 37.0 | 30.3 | - | 43.6 |
| $50,000–74,999 | 1,118 | 35.7 | 29.6 | - | 41.8 |
| $75,000+ | 2,586 | 48.2 | 44.7 | - | 51.7 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | |

## Section 4.4: Herpes Zoster (Shingles) Vaccination

All respondents ages 50 and older were asked if they had ever received the shingles vaccine. Presented here is the percentage of adults ages 50 or older who had ever received the shingles vaccine.

**Questions about shingles vaccine were asked only on the MA BRFSS landline survey in 2014 and not the cell phone survey; therefore the results in Table 4.4 represent the landline sample only.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 4.4 – Shingles Vaccine Among Massachusetts Adults, Age 60+**, 2014 | | | | | |
|  | Ever Had Shingles Vaccine  N % 95% CI | | | | |
| Overall | 6,017 | 38.4 | 36.4 | - | 40.4 |
| Gender |  |  |  |  |  |
| male | 2,148 | 36.9 | 33.7 | - | 40.2 |
| female | 3,869 | 39.6 | 37.2 | - | 42.0 |
| Age Group |  |  |  |  |  |
| 60-69 | 2,788 | 36.1 | 33.2 | - | 39.0 |
| 70-79 | 1,940 | 42.5 | 39.0 | - | 45.9 |
| 80 and older | 1,289 | 38.3 | 34.1 | - | 42.5 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 5,426 | 40.3 | 38.3 | - | 42.4 |
| black | 229 | 19.5 | 11.3 | - | 27.7 |
| hispanic | 150 | 27.9 | 15.7 | - | 40.1 |
| asian | 36 | . | . | - | . |
| Disability¶ |  |  |  |  |  |
| disability | 2,718 | 33.2 | 30.3 |  | 36.0 |
| no disability | 3,248 | 42.6 | 39.9 |  | 45.4 |
| Education |  |  |  |  |  |
| < high school | 462 | 27.8 | 21.0 | - | 34.6 |
| high school | 1,619 | 35.2 | 31.5 | - | 38.9 |
| college 1–3 yrs | 1,490 | 37.9 | 34.2 | - | 41.5 |
| college 4+ yrs | 2,421 | 47.7 | 45.0 | - | 50.4 |
| Household Income |  |  |  |  |  |
| <$25,000 | 1,615 | 29.0 | 24.9 | - | 33.0 |
| $25,000–34,999 | 637 | 39.3 | 33.1 | - | 45.5 |
| $35,000–49,999 | 795 | 38.7 | 33.4 | - | 44.1 |
| $50,000–74,999 | 771 | 49.1 | 43.3 | - | 54.8 |
| $75,000+ | 1,148 | 45.7 | 41.8 | - | 49.7 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

# Section 5: Chronic Health Conditions

## Section 5.1: Diabetes

All respondents were asked if a doctor had ever told them that they had diabetes or pre-diabetes Women who reported that they had diabetes only during pregnancy (gestational diabetes) were categorized as not having diabetes. Presented here is the percentage of adults who reported that a doctor had ever told them that they had diabetes and the percentage of adults who reported that a doctor had ever told them that they had pre-diabetes.

**Questions about pre-diabetes were asked only on the MA BRFSS landline survey in 2014 and not the cell phone survey; therefore the pre-diabetes results in Table 5.1 represent the landline sample only. Questions on diabetes were asked on both the landline and cell phone surveys, and unlike pre-diabetes, results for diabetes represent the combined sample.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 5.1 – Diabetes Among Massachusetts Adults**,** 2014 | | | | | | | | | | |
|  | Pre-Diabetes  N % 95% CI | | | | | Diabetes  N % 95% CI | | | | |
|  |
|  |
| Overall | 8,852 | 7.0 | 6.1 | - | 7.8 | 15,618 | 9.7 | 9.0 | - | 10.4 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 3,080 | 7.5 | 6.1 | - | 8.9 | 6,253 | 11.5 | 10.3 | - | 12.6 |
| female | 5,772 | 6.5 | 5.5 | - | 7.5 | 9,365 | 8.1 | 7.3 | - | 8.8 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | † |  |  |  |  | † |  |  |  |  |
| 25–34 | † |  |  |  |  | 1,286 | 2.5 | 1.4 | - | 3.6 |
| 35–44 | † |  |  |  |  | 1,624 | 4.7 | 3.2 | - | 6.2 |
| 45–54 | 1,437 | 7.1 | 5.1 | - | 9.1 | 2,569 | 9.3 | 7.6 | - | 11.0 |
| 55–64 | 2,098 | 11.1 | 8.9 | - | 13.2 | 3,479 | 14.8 | 12.9 | - | 16.6 |
| 65–74 | 2,032 | 15.8 | 13.1 | - | 18.5 | 3,224 | 22.4 | 19.9 | - | 24.8 |
| 75 and older | 1,638 | 13.5 | 10.7 | - | 16.3 | 2,424 | 19.0 | 16.6 | - | 21.4 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 7,683 | 6.9 | 6.0 | - | 7.8 | 12,779 | 9.4 | 8.7 | - | 10.2 |
| black | 410 | 12.7 | 7.1 | - | 18.4 | 810 | 11.5 | 8.6 | - | 14.5 |
| hispanic | 353 | 5.2 | 2.3 | - | 8.2 | 866 | 13.9 | 10.6 | - | 17.2 |
| asian | † |  |  |  |  | 347 | 5.4 | 2.6 | - | 8.3 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 3,106 | 10.6 | 8.7 | - | 12.5 | 5335 | 18.0 | 16.3 | - | 19.7 |
| no disability | 5,682 | 5.3 | 4.5 | - | 6.2 | 9399 | 6.1 | 5.5 | - | 6.8 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 488 | 8.0 | 4.6 | - | 11.4 | 982 | 18.7 | 14.9 | - | 22.4 |
| high school | 2,033 | 8.8 | 6.7 | - | 10.8 | 3,584 | 11.5 | 10.1 | - | 12.9 |
| college 1–3 yrs | 2,076 | 7.5 | 5.7 | - | 9.3 | 3,732 | 9.3 | 8.1 | - | 10.5 |
| college 4+ yrs | 4,215 | 5.2 | 4.3 | - | 6.0 | 7,119 | 5.8 | 5.1 | - | 6.4 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 1,819 | 10.1 | 7.4 | - | 12.8 | 3,371 | 17.0 | 14.9 | - | 19.1 |
| $25,000–34,999 | 729 | 7.4 | 4.5 | - | 10.3 | 1,268 | 11.7 | 9.2 | - | 14.2 |
| $35,000–49,999 | 991 | 8.3 | 5.5 | - | 11.2 | 1,691 | 9.2 | 7.4 | - | 11.1 |
| $50,000–74,999 | 1,122 | 7.3 | 5.1 | - | 9.4 | 1,883 | 10.0 | 7.8 | - | 12.2 |
| $75,000+ | 2,826 | 4.6 | 3.6 | - | 5.6 | 4,802 | 5.3 | 4.6 | - | 6.1 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 5.2: Asthma

All respondents were asked if a doctor, nurse, or other health care professional had ever told them that they had asthma. Those who reported ever having asthma were then asked if they currently have asthma. Reported here are the percentages of adults who have ever had asthma and those who currently have asthma.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 5.2 – Asthma Among Massachusetts Adults,** 2014 | | | | | | | | | | |
|  | Ever Had Asthma  N % 95% CI | | | | | Currently Have Asthma  N % 95% CI | | | | |
|  |
|  |
| Overall | 15,589 | 17.6 | 16.6 | - | 18.6 | 15,510 | 12.0 | 11.1 | - | 12.8 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 6,242 | 14.1 | 12.7 | - | 15.4 | 6,222 | 8.2 | 7.1 | - | 9.3 |
| female | 9,347 | 20.8 | 19.4 | - | 22.2 | 9,288 | 15.5 | 14.2 | - | 16.7 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 678 | 22.1 | 18.1 | - | 26.0 | 671 | 13.8 | 10.4 | - | 17.2 |
| 25–34 | 1,284 | 21.8 | 18.9 | - | 24.7 | 1,273 | 12.9 | 10.4 | - | 15.3 |
| 35–44 | 1,621 | 16.6 | 14.2 | - | 19.0 | 1,611 | 11.2 | 9.2 | - | 13.2 |
| 45–54 | 2,560 | 16.7 | 14.7 | - | 18.7 | 2,551 | 12.7 | 10.9 | - | 14.6 |
| 55–64 | 3,472 | 16.2 | 14.3 | - | 18.0 | 3,461 | 12.7 | 11.0 | - | 14.3 |
| 65–74 | 3,217 | 16.0 | 13.8 | - | 18.2 | 3,200 | 10.5 | 8.7 | - | 12.2 |
| 75 and older | 2,419 | 12.4 | 10.3 | - | 14.5 | 2,405 | 9.0 | 7.1 | - | 10.8 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 12,749 | 16.9 | 15.8 | - | 18.0 | 12,686 | 11.8 | 10.8 | - | 12.7 |
| black | 811 | 20.3 | 15.9 | - | 24.8 | 806 | 15.6 | 11.5 | - | 19.6 |
| hispanic | 867 | 25.3 | 21.1 | - | 29.5 | 861 | 16.5 | 12.9 | - | 20.2 |
| asian | 350 | 10.9 | 6.5 | - | 15.3 | 348 |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 5,311 | 27.4 | 25.3 | - | 29.5 | 5,269 | 21.5 | 19.5 | - | 23.4 |
| no disability | 9,394 | 13.7 | 12.6 | - | 14.8 | 9,361 | 8.2 | 7.4 | - | 9.1 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 980 | 23.8 | 19.5 | - | 28.0 | 974 | 18.7 | 14.9 | - | 22.6 |
| high school | 3,573 | 17.5 | 15.4 | - | 19.5 | 3,559 | 12.1 | 10.4 | - | 13.8 |
| college 1–3 yrs | 3,728 | 18.8 | 16.9 | - | 20.8 | 3,708 | 12.5 | 10.9 | - | 14.2 |
| college 4+ yrs | 7,103 | 15.1 | 13.9 | - | 16.2 | 7,065 | 9.6 | 8.6 | - | 10.6 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 3,365 | 24.9 | 22.2 | - | 27.5 | 3,345 | 18.6 | 16.3 | - | 21.0 |
| $25,000–34,999 | 1,270 | 18.1 | 14.6 | - | 21.6 | 1,266 | 13.2 | 10.0 | - | 16.3 |
| $35,000–49,999 | 1,685 | 15.1 | 12.6 | - | 17.7 | 1,677 | 9.7 | 7.7 | - | 11.8 |
| $50,000–74,999 | 1,880 | 15.1 | 12.5 | - | 17.6 | 1,870 | 8.4 | 6.5 | - | 10.3 |
| $75,000+ | 4,788 | 15.1 | 13.6 | - | 16.6 | 4,769 | 9.8 | 8.5 | - | 11.0 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 5.3: Chronic Obstructive Pulmonary Disease (COPD)

All respondents were asked if a doctor, nurse, or other health care professional had ever told them that they had Chronic Obstructive Pulmonary Disease or COPD, emphysema or chronic bronchitis.

Presented here is the percentage of adults who reported that they had ever been diagnosed with COPD, emphysema or chronic bronchitis.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 5.3 – Chronic Obstructive Pulmonary Disease (COPD) Among Massachusetts Adults**, 2014 | | | | | |
|  | Ever diagnosed with COPD  N % 95% CI | | | | |
| Overall | 15,555 | 6.5 | 5.9 | - | 7.1 |
| Gender |  |  |  |  |  |
| male | 6,222 | 5.8 | 4.9 | - | 6.6 |
| female | 9,333 | 7.2 | 6.3 | - | 8.1 |
| Age Group |  |  |  |  |  |
| 18–24 | † |  |  |  |  |
| 25–34 | 1,283 | 2.0 | 1.0 | - | 3.1 |
| 35–44 | 1,619 | 4.6 | 2.8 | - | 6.4 |
| 45–54 | 2,564 | 6.9 | 5.4 | - | 8.4 |
| 55–64 | 3,466 | 8.7 | 7.3 | - | 10.1 |
| 65–74 | 3,204 | 12.4 | 10.5 | - | 14.3 |
| 75 and older | 2,407 | 13.0 | 10.9 | - | 15.2 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 12,730 | 7.0 | 6.3 | - | 7.7 |
| black | 808 | 3.5 | 1.9 | - | 5.1 |
| hispanic | 860 | 6.9 | 4.1 | - | 9.6 |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 5,282 | 15.8 | 14.1 |  | 17.5 |
| no disability | 9,391 | 2.5 | 2.1 |  | 2.9 |
| Education |  |  |  |  |  |
| < high school | 970 | 17.5 | 13.8 | - | 21.1 |
| high school | 3,563 | 8.7 | 7.4 | - | 9.9 |
| college 1–3 yrs | 3,720 | 5.8 | 4.8 | - | 6.7 |
| college 4+ yrs | 7,099 | 2.2 | 1.8 | - | 2.6 |
| Household Income |  |  |  |  |  |
| <$25,000 | 3,352 | 13.8 | 11.8 | - | 15.8 |
| $25,000–34,999 | 1,266 | 9.9 | 7.0 | - | 12.9 |
| $35,000–49,999 | 1,683 | 6.6 | 4.7 | - | 8.5 |
| $50,000–74,999 | 1,881 | 4.5 | 3.2 | - | 5.8 |
| $75,000+ | 4,792 | 2.2 | 1.7 | - | 2.7 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 5.4: Heart Disease and Stroke

All respondents were asked whether a doctor, nurse, or other health professional had ever told them that they had had a myocardial infarction (“MI,” also called a “heart attack”), angina or coronary heart disease, or a stroke. Presented here are the percentages of adults 35 and older who reported being told that they had experienced a heart attack, had angina or coronary heart disease, or had a stroke.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 5.4.1 – Heart Disease Among Massachusetts Adults,**  **Ages 35 Years and Older, 2014** | | | | | | | | | | |
|  | Ever Diagnosed with Myocardial Infarction  N % 95% CI | | | | | Ever Diagnosed with Angina or Coronary Heart Disease  N % 95% CI | | | | |
|  |
|  |
| Overall | 13,277 | 5.6 | 5.0 | - | 6.1 | 13,242 | 5.8 | 5.2 | - | 6.3 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 5,194 | 7.5 | 6.5 | - | 8.5 | 5,171 | 7.3 | 6.4 | - | 8.2 |
| female | 8,083 | 3.8 | 3.2 | - | 4.4 | 8,071 | 4.4 | 3.7 | - | 5.1 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 35–44 | † |  |  |  |  | † |  |  |  |  |
| 45–54 | 2,564 | 3.4 | 2.4 | - | 4.4 | 2,563 | 2.8 | 1.9 | - | 3.8 |
| 55–64 | 3,475 | 5.9 | 4.7 | - | 7.2 | 3,471 | 6.2 | 5.0 | - | 7.5 |
| 65–74 | 3,209 | 8.5 | 6.8 | - | 10.2 | 3,205 | 9.9 | 8.3 | - | 11.6 |
| 75 and older | 2,407 | 14.3 | 12.1 | - | 16.6 | 2,384 | 15.5 | 13.2 | - | 17.9 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 11,287 | 5.9 | 5.2 | - | 6.5 | 11,254 | 6.3 | 5.6 | - | 6.9 |
| black | 625 | 4.8 | 2.5 | - | 7.1 | 624 | 2.9 | 1.3 | - | 4.5 |
| hispanic | 603 | 4.3 | 2.2 | - | 6.4 | 606 | 4.4 | 2.0 | - | 6.7 |
| asian | † |  |  |  |  | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 4,831 | 10.9 | 9.6 | - | 12.3 | 4,803 | 11.5 | 10.1 | - | 12.9 |
| no disability | 7,749 | 2.9 | 2.4 | - | 3.4 | 7,741 | 2.9 | 2.4 | - | 3.4 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 860 | 9.8 | 6.8 | - | 12.8 | 851 | 9.5 | 6.6 | - | 12.4 |
| high school | 3,122 | 7.5 | 6.3 | - | 8.7 | 3,116 | 6.6 | 5.5 | - | 7.8 |
| college 1–3 yrs | 3,087 | 5.5 | 4.4 | - | 6.6 | 3,081 | 6.2 | 5.1 | - | 7.4 |
| college 4+ yrs | 6,067 | 3.0 | 2.5 | - | 3.5 | 6,055 | 3.7 | 3.1 | - | 4.2 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 2,910 | 10.4 | 8.6 | - | 12.1 | 2,899 | 10.4 | 8.6 | - | 12.2 |
| $25,000–34,999 | 1,089 | 6.5 | 4.4 | - | 8.6 | 1,087 | 6.8 | 4.7 | - | 8.9 |
| $35,000–49,999 | 1,434 | 6.0 | 4.2 | - | 7.7 | 1,434 | 5.0 | 3.4 | - | 6.7 |
| $50,000–74,999 | 1,627 | 4.5 | 3.0 | - | 6.0 | 1,621 | 5.3 | 3.8 | - | 6.8 |
| $75,000+ | 4,154 | 2.4 | 1.8 | - | 3.1 | 4,153 | 2.7 | 2.1 | - | 3.4 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 5.4.2 – Stroke Among Massachusetts Adults,**  **Ages 35 Years and Older**, 2014 | | | | | |
|  | Ever Diagnosed with Stroke  N % 95% CI | | | | |
| Overall | 13,293 | 3.5 | 3.0 | - | 4.0 |
| Gender |  |  |  |  |  |
| male | 5,199 | 4.0 | 3.2 | - | 4.8 |
| female | 8,094 | 3.1 | 2.4 | - | 3.7 |
| Age Group |  |  |  |  |  |
| 35–44 | † |  |  |  |  |
| 45–54 | 2,565 | 2.8 | 1.7 | - | 3.8 |
| 55–64 | 3,475 | 3.2 | 2.2 | - | 4.1 |
| 65–74 | 3,211 | 6.0 | 4.4 | - | 7.6 |
| 75 and older | 2,419 | 7.4 | 5.8 | - | 9.0 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 11,301 | 3.1 | 2.7 | - | 3.6 |
| black | 629 | 5.2 | 2.4 | - | 8.0 |
| hispanic | † |  |  |  |  |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 4,843 | 7.8 | 6.6 |  | 9.1 |
| no disability | 7,754 | 1.2 | 0.9 |  | 1.5 |
| Education |  |  |  |  |  |
| < high school | 862 | 6.8 | 4.0 | - | 9.6 |
| high school | 3,129 | 4.0 | 3.1 | - | 5.0 |
| college 1–3 yrs | 3,096 | 3.8 | 2.8 | - | 4.8 |
| college 4+ yrs | 6,067 | 1.9 | 1.5 | - | 2.2 |
| Household Income |  |  |  |  |  |
| <$25,000 | 2,923 | 7.3 | 5.6 | - | 8.9 |
| $25,000–34,999 | 1,089 | 4.0 | 2.2 | - | 5.7 |
| $35,000–49,999 | 1,438 | 3.5 | 2.1 | - | 5.0 |
| $50,000–74,999 | 1,624 | 2.0 | 1.1 | - | 2.8 |
| $75,000+ | 4,156 | 1.5 | 1.0 | - | 1.9 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 5.5: Cancer Diagnosis

All respondents were asked if a doctor, nurse or other health professional had ever told them they had skin cancer and if they had ever been told they had any other type of cancer. Presented is the percentage of adults who were ever told they had one or more types of cancer.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 5.5 – Cancer Diagnosis Among Massachusetts Adults**, 2014 | | | | | |
|  | Ever diagnosed with Cancer  N % 95% CI | | | | |
| Overall | 15,551 | 12.5 | 11.8 | - | 13.2 |
| Gender |  |  |  |  |  |
| male | 6,223 | 11.5 | 10.5 | - | 12.5 |
| female | 9,328 | 13.4 | 12.5 | - | 14.3 |
| Age Group |  |  |  |  |  |
| 18–24 | † |  |  |  |  |
| 25–34 | 1,284 | 2.4 | 1.5 | - | 3.3 |
| 35–44 | 1,621 | 4.3 | 3.0 | - | 5.5 |
| 45–54 | 2,561 | 10.6 | 9.0 | - | 12.3 |
| 55–64 | 3,458 | 18.9 | 17.0 | - | 20.8 |
| 65–74 | 3,211 | 27.3 | 25.0 | - | 29.6 |
| 75 and older | 2,402 | 36.6 | 33.6 | - | 39.5 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 12,718 | 15.1 | 14.2 | - | 15.9 |
| black | 810 | 3.8 | 2.0 | - | 5.5 |
| hispanic | 863 | 5.5 | 3.5 | - | 7.5 |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 5,295 | 18.4 | 16.9 |  | 20.0 |
| no disability | 9,372 | 10.2 | 9.4 |  | 10.9 |
| Education |  |  |  |  |  |
| < high school | 973 | 12.2 | 9.2 | - | 15.2 |
| high school | 3,571 | 11.6 | 10.3 | - | 12.9 |
| college 1–3 yrs | 3,710 | 13.1 | 11.8 | - | 14.5 |
| college 4+ yrs | 7,091 | 12.9 | 11.9 | - | 13.8 |
| Household Income |  |  |  |  |  |
| <$25,000 | 3,348 | 13.3 | 11.6 | - | 15.1 |
| $25,000–34,999 | 1,259 | 12.6 | 10.3 | - | 14.9 |
| $35,000–49,999 | 1,684 | 13.2 | 11.0 | - | 15.3 |
| $50,000–74,999 | 1,873 | 14.7 | 12.5 | - | 16.9 |
| $75,000+ | 4,791 | 11.4 | 10.3 | - | 12.4 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 5.6: Depression

All respondents were asked if a doctor, nurse or other health professional had ever told them they had a depressive disorder, including depression, major depression, dysthymia, or minor depression. Presented here is the percentage of adults who were ever told that they had a depressive disorder.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 5.6 – Depression Among Massachusetts Adults**, 2014 | | | | | |
|  | Ever diagnosed with Depression  N % 95% CI | | | | |
| Overall | 15,545 | 21.6 | 20.6 | - | 22.7 |
| Gender |  |  |  |  |  |
| male | 6,220 | 17.6 | 16.1 | - | 19.0 |
| female | 9,325 | 25.4 | 23.9 | - | 26.9 |
| Age Group |  |  |  |  |  |
| 18–24 | 674 | 21.0 | 17.1 | - | 25.0 |
| 25–34 | 1,277 | 23.2 | 20.1 | - | 26.2 |
| 35–44 | 1,615 | 22.4 | 19.4 | - | 25.3 |
| 45–54 | 2,556 | 23.8 | 21.5 | - | 26.1 |
| 55–64 | 3,462 | 25.0 | 22.9 | - | 27.1 |
| 65–74 | 3,216 | 19.7 | 17.6 | - | 21.8 |
| 75 and older | 2,412 | 12.0 | 10.0 | - | 14.0 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 12,722 | 21.9 | 20.7 | - | 23.0 |
| black | 808 | 17.3 | 13.2 | - | 21.5 |
| hispanic | 861 | 30.8 | 26.2 | - | 35.4 |
| asian | 346 | 9.9 | 5.2 | - | 14.6 |
| Disability¶ |  |  |  |  |  |
| disability | 5,292 | 44.4 | 42.0 |  | 46.7 |
| no disability | 9,375 | 12.1 | 11.1 |  | 13.2 |
| Education |  |  |  |  |  |
| < high school | 975 | 36.6 | 31.7 | - | 41.5 |
| high school | 3,566 | 22.1 | 19.9 | - | 24.2 |
| college 1–3 yrs | 3,715 | 21.5 | 19.4 | - | 23.5 |
| college 4+ yrs | 7,089 | 16.8 | 15.6 | - | 17.9 |
| Household Income |  |  |  |  |  |
| <$25,000 | 3,358 | 37.3 | 34.4 | - | 40.2 |
| $25,000–34,999 | 1,264 | 21.6 | 17.9 | - | 25.4 |
| $35,000–49,999 | 1,682 | 21.1 | 18.0 | - | 24.3 |
| $50,000–74,999 | 1,879 | 16.9 | 14.0 | - | 19.8 |
| $75,000+ | 4,783 | 14.9 | 13.4 | - | 16.3 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | |

# Section 6: Cancer Screening

## Section 6.1: Colorectal Cancer Screening

Respondents, ages 50 and older, were asked if they ever had had a blood stool test using a home test kit to determine if their stool contained blood and were also asked if they had ever had a sigmoidoscopy or colonoscopy, tests that examine the bowel for signs of cancer or other health problems. Presented here is the percentage of adults who had a blood stool test using a home test kit in the past two years and the percentage of adults who had a sigmoidoscopy or colonoscopy in the past five years.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 6.1 – Colorectal Cancer Screening among Massachusetts Adults, Ages 50 years and older, 2014 | | | | | | | | | | |
|  | Blood Stool Test in the Past Two Years  N % 95% CI | | | | | Sigmoidoscopy or Colonoscopy in past Five years  N % 95% CI | | | | |
|  |
|  |
| Overall | 9,372 | 13.8 | 12.8 | - | 14.8 | 9,385 | 58.8 | 57.3 | - | 60.4 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 3,683 | 13.4 | 11.9 | - | 15.0 | 3,651 | 60.2 | 57.8 | - | 62.5 |
| female | 5,689 | 14.1 | 12.7 | - | 15.4 | 5,734 | 57.7 | 55.7 | - | 59.7 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 50-59 | 2,823 | 9.4 | 7.9 | - | 10.8 | 2,829 | 56.0 | 53.3 | - | 58.7 |
| 60-69 | 3,260 | 15.4 | 13.5 | - | 17.3 | 3,291 | 63.5 | 61.0 | - | 66.0 |
| 70-79 | 2,024 | 20.5 | 17.8 | - | 23.2 | 2,030 | 64.2 | 61.0 | - | 67.3 |
| 80 and Older | 1,265 | 14.9 | 11.9 | - | 18.0 | 1,235 | 47.1 | 42.8 | - | 51.5 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 8,240 | 14.2 | 13.1 | - | 15.3 | 8,265 | 59.1 | 57.5 | - | 60.7 |
| black | 365 | 13.5 | 8.5 | - | 18.5 | 360 | 55.8 | 47.5 | - | 64.1 |
| hispanic | 343 | 8.5 | 4.1 | - | 12.8 | 330 | 63.6 | 55.3 | - | 71.9 |
| asian | † |  |  |  |  | 93 | 50.4 | 35.3 | - | 65.5 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 3,828 | 15.8 | 14.0 | - | 17.6 | 3,828 | 57.9 | 55.4 | - | 60.4 |
| no disability | 5,478 | 12.7 | 11.5 | - | 13.9 | 5,486 | 59.5 | 57.5 | - | 61.4 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 635 | 12.2 | 8.4 | - | 16.0 | 620 | 56.7 | 50.5 | - | 62.9 |
| high school | 2,309 | 14.7 | 12.7 | - | 16.8 | 2,275 | 52.2 | 49.1 | - | 55.4 |
| college 1–3 yrs | 2,257 | 14.4 | 12.3 | - | 16.5 | 2,271 | 60.3 | 57.4 | - | 63.3 |
| college 4+ yrs | 4,136 | 13.0 | 11.7 | - | 14.4 | 4,184 | 63.8 | 61.8 | - | 65.8 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 2,229 | 15.3 | 12.9 | - | 17.8 | 2,201 | 51.6 | 48.0 | - | 55.3 |
| $25,000–34,999 | 832 | 16.6 | 12.4 | - | 20.8 | 830 | 57.8 | 52.5 | - | 63.2 |
| $35,000–49,999 | 1,100 | 15.2 | 12.2 | - | 18.3 | 1,108 | 55.8 | 51.2 | - | 60.4 |
| $50,000–74,999 | 1,216 | 14.5 | 11.6 | - | 17.4 | 1,218 | 65.1 | 60.9 | - | 69.4 |
| $75,000+ | 2,620 | 11.2 | 9.6 | - | 12.9 | 2,653 | 62.9 | 60.3 | - | 65.5 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 6.2: Breast Cancer Screening

All female respondents were asked about breast cancer screening. Those women who reported that they had ever had a mammogram were asked how long it had been since their last mammogram. Those women who reported that they ever had a clinical breast exam (when a doctor, nurse or other health professional feels the breast for lumps) were asked how long it had been since their last clinical breast exam. The percentage of women age 40 and older in Massachusetts who reported that they had a mammogram in the past two years and who reported they had a clinical breast exam in the past two years is presented in Table 6.2.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 6.2 – **Breast Cancer Screening among Massachusetts Women**  **ages 40 and older**, 2014 | | | | | | | | | | |
|  | Mammogram in the Past Two Years  N % 95% CI | | | | | Clinical Breast Exam in the Past Two Years  N % 95% CI | | | | |
|  |
|  |
| Overall | 6,939 | 82.1 | 80.6 | - | 83.6 | 6,840 | 83.6 | 82.2 | - | 85.0 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 40-49 | 1,066 | 74.8 | 70.9 | - | 78.7 | 1,061 | 85.8 | 82.6 | - | 89.0 |
| 50-59 | 1,703 | 87.0 | 84.5 | - | 89.6 | 1,687 | 86.7 | 84.2 | - | 89.2 |
| 60-69 | 2,023 | 89.7 | 87.7 | - | 91.7 | 1,998 | 87.1 | 84.9 | - | 89.3 |
| 70-79 | 1,306 | 82.5 | 79.1 | - | 86.0 | 1,284 | 80.0 | 76.3 | - | 83.7 |
| 80 and Older | 841 | 65.9 | 60.8 | - | 71.1 | 810 | 64.5 | 59.1 | - | 69.9 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 6,039 | 82.6 | 81.0 | - | 84.2 | 5,953 | 84.4 | 83.0 | - | 85.9 |
| black | 314 | 74.4 | 66.0 | - | 82.8 | 310 | 78.1 | 69.9 | - | 86.2 |
| hispanic | 307 | 83.5 | 77.4 | - | 89.6 | 302 | 79.7 | 72.8 | - | 86.6 |
| asian | 75 | 72.5 | 58.4 | - | 86.5 | 76 | 79.6 | 67.7 | - | 91.5 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 2,773 | 77.4 | 74.6 | - | 80.1 | 2,711 | 78.5 | 75.8 | - | 81.1 |
| no disability | 4,118 | 85.1 | 83.3 | - | 86.8 | 4,079 | 86.8 | 85.2 | - | 88.3 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 448 | 74.9 | 67.1 | - | 82.8 | 437 | 74.0 | 67.1 | - | 80.9 |
| high school | 1,676 | 81.4 | 78.5 | - | 84.3 | 1,655 | 79.1 | 76.0 | - | 82.1 |
| college 1–3 yrs | 1,765 | 83.5 | 81.0 | - | 86.0 | 1,733 | 84.7 | 82.2 | - | 87.2 |
| college 4+ yrs | 3,022 | 83.8 | 81.9 | - | 85.8 | 2,989 | 89.2 | 87.6 | - | 90.8 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 1,680 | 75.6 | 72.0 | - | 79.2 | 1,653 | 73.1 | 69.3 | - | 77.0 |
| $25,000–34,999 | 603 | 74.6 | 67.6 | - | 81.6 | 594 | 81.4 | 75.9 | - | 86.9 |
| $35,000–49,999 | 754 | 84.5 | 80.5 | - | 88.6 | 749 | 85.1 | 81.1 | - | 89.0 |
| $50,000–74,999 | 848 | 85.1 | 80.4 | - | 89.9 | 836 | 87.6 | 84.2 | - | 91.0 |
| $75,000+ | 1,926 | 86.7 | 84.6 | - | 88.8 | 1,912 | 90.3 | 88.5 | - | 92.2 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 6.3: Cervical Cancer Screening

All female respondents were asked if they ever had had a Pap smear, a screening test for cancer of the cervix. Those who reported that they had had a Pap smear were then asked how long it had been since their last Pap smear. The percentage of women who reported having had a Pap smear in the past 3 years is presented below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 6.3 – Cervical Cancer Screening Among Massachusetts Women, 2014** | | | | | |
|  | Pap Smear Test within Past Three Years  N % 95% CI | | | | |
| Overall | 8,190 | 73.5 | 71.9 | - | 75.2 |
| Age Group |  |  |  |  |  |
| 18–24 | 289 | 37.3 | 30.5 | - | 44.0 |
| 25–34 | 628 | 89.1 | 86.0 | - | 92.2 |
| 35–44 | 882 | 89.9 | 86.6 | - | 93.1 |
| 45–54 | 1,365 | 88.7 | 86.3 | - | 91.1 |
| 55–64 | 1,862 | 82.8 | 80.3 | - | 85.3 |
| 65–74 | 1,746 | 62.8 | 59.3 | - | 66.4 |
| 75 and older | 1,260 | 33.4 | 29.4 | - | 37.5 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 6,807 | 74.1 | 72.3 | - | 75.9 |
| black | 433 | 69.1 | 61.1 | - | 77.2 |
| hispanic | 464 | 76.1 | 69.8 | - | 82.3 |
| asian | 142 | 64.1 | 53.2 | - | 75.0 |
| Disability¶ |  |  |  |  |  |
| disability | 3,029 | 69.2 | 66.2 | - | 72.1 |
| no disability | 5,110 | 75.6 | 73.6 | - | 77.7 |
| Education |  |  |  |  |  |
| < high school | 476 | 63.8 | 56.3 | - | 71.4 |
| high school | 1,852 | 64.5 | 60.7 | - | 68.2 |
| college 1–3 yrs | 2,111 | 69.0 | 65.7 | - | 72.4 |
| college 4+ yrs | 3,714 | 85.7 | 84.2 | - | 87.3 |
| Household Income |  |  |  |  |  |
| <$25,000 | 1,897 | 63.8 | 59.9 | - | 67.7 |
| $25,000–34,999 | 683 | 72.8 | 67.8 | - | 77.9 |
| $35,000–49,999 | 898 | 76.1 | 71.7 | - | 80.5 |
| $50,000–74,999 | 1,008 | 77.2 | 72.7 | - | 81.7 |
| $75,000+ | 2,383 | 85.1 | 82.6 | - | 87.6 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | |

# Section 7: Other Topics

## Section 7.1: Sexual Orientation and Gender Identity

All respondents were asked if they considered themselves to be heterosexual or straight, homosexual (gay, lesbian), bisexual or other. The percentage of those who self-identified as homosexual, bisexual or other is presented.

All respondents were also asked whether they consider themselves to be transgender. Overall, in 2014, 0.7% of Massachusetts adults self-identified as transgender. A table of this data is not presented due to the low prevalence.

.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 7.1 - Sexual Orientation Among Massachusetts Adults, 2014 | | | | | |
|  | Self-Identified as Homosexual, Bisexual or Other  N % 95% CI | | | | |
| Overall | 13,419 | 6.2 | 5.5 | - | 6.9 |
| Gender |  |  |  |  |  |
| male | 5,367 | 5.9 | 4.9 | - | 6.9 |
| female | 8,052 | 6.4 | 5.4 | - | 7.5 |
| Age Group |  |  |  |  |  |
| 18–24 | 539 | 10.3 | 7.3 | - | 13.4 |
| 25–34 | 1,044 | 8.5 | 6.2 | - | 10.9 |
| 35–44 | 1,375 | 6.6 | 4.6 | - | 8.6 |
| 45–54 | 2,250 | 6.0 | 4.5 | - | 7.5 |
| 55–64 | 3,069 | 5.2 | 4.1 | - | 6.3 |
| 65–74 | 2,861 | 3.2 | 2.2 | - | 4.2 |
| 75 and older | 2,071 | 2.1 | 1.1 | - | 3.1 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 1,1359 | 5.6 | 4.8 | - | 6.3 |
| black | 654 | 8.0 | 4.9 | - | 11.1 |
| hispanic | 726 | 11.4 | 7.5 | - | 15.3 |
| asian | 280 |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 4,847 | 9.5 | 7.8 |  | 11.1 |
| no disability | 8,481 | 4.8 | 4.1 |  | 5.5 |
| Education |  |  |  |  |  |
| < high school | 803 | 12.2 | 8.2 | - | 16.2 |
| high school | 3,029 | 4.2 | 3.2 | - | 5.2 |
| college 1–3 yrs | 3,263 | 6.7 | 5.2 | - | 8.2 |
| college 4+ yrs | 6,274 | 5.3 | 4.6 | - | 6.1 |
| Household Income |  |  |  |  |  |
| <$25,000 | 2,885 | 8.8 | 6.7 | - | 10.8 |
| $25,000–34,999 | 1,117 | 8.5 | 5.6 | - | 11.4 |
| $35,000–49,999 | 1,509 | 6.5 | 4.2 | - | 8.8 |
| $50,000–74,999 | 1,672 | 5.6 | 3.4 | - | 7.8 |
| $75,000+ | 4,326 | 4.3 | 3.5 | - | 5.2 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 7.2: HIV Testing

All respondents were asked if they had ever been tested for HIV. Respondents were told not to include times that HIV testing had been done as part of a blood donation. Respondents who reported that they had ever been tested for HIV were asked the date of their most recent HIV test. Presented here is the percentage of adults ages 18-64 who report ever having been tested for HIV and the percentage who had been tested in the past year.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 7.2 – HIV Testing Among Massachusetts Adults, Ages 18-64,** 2014 | | | | | | | | | | |
|  | Ever Tested for HIV  N % 95% CI | | | | | Tested for HIV in Past Year  N % 95% CI | | | | |
|  |
|  |
| Overall | 8,492 | 43.4 | 41.9 | - | 45.0 | 7,565 | 11.1 | 9.9 | - | 12.2 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 3,562 | 42.2 | 39.9 | - | 44.5 | 3,201 | 11.9 | 10.2 | - | 13.6 |
| female | 4,930 | 44.6 | 42.5 | - | 46.8 | 4,364 | 10.3 | 8.7 | - | 11.8 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | 587 | 27.9 | 23.4 | - | 32.4 | 560 | 14.1 | 10.5 | - | 17.8 |
| 25–34 | 1,136 | 57.7 | 54.1 | - | 61.4 | 979 | 19.4 | 16.1 | - | 22.8 |
| 35–44 | 1,394 | 58.7 | 55.1 | - | 62.3 | 1,223 | 13.6 | 10.9 | - | 16.4 |
| 45–54 | 2,270 | 42.5 | 39.6 | - | 45.4 | 2,015 | 5.9 | 4.4 | - | 7.4 |
| 55–64 | 3,105 | 28.4 | 26.1 | - | 30.7 | 2,788 | 4.0 | 2.9 | - | 5.1 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 6,663 | 39.6 | 37.8 | - | 41.4 | 5,991 | 7.9 | 6.8 | - | 9.1 |
| black | 484 | 70.0 | 63.7 | - | 76.4 | 404 | 28.9 | 22.3 | - | 35.6 |
| hispanic | 629 | 59.1 | 53.7 | - | 64.5 | 515 | 23.7 | 18.1 | - | 29.3 |
| asian | 255 | 27.1 | 20.3 | - | 33.8 | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 2,561 | 53.9 | 50.7 | - | 57.0 | 2,177 | 17.4 | 14.5 | - | 20.3 |
| no disability | 5,879 | 39.5 | 37.7 | - | 41.3 | 5,346 | 8.9 | 7.7 | - | 10.0 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 434 | 55.5 | 48.8 | - | 62.2 | 351 | 19.7 | 13.6 | - | 25.7 |
| high school | 1,679 | 36.0 | 32.7 | - | 39.3 | 1,483 | 10.5 | 8.1 | - | 13.0 |
| college 1–3 yrs | 2,051 | 44.4 | 41.3 | - | 47.5 | 1,830 | 12.7 | 10.4 | - | 15.1 |
| college 4+ yrs | 4,300 | 44.2 | 42.2 | - | 46.2 | 3,878 | 8.1 | 6.9 | - | 9.3 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 1,607 | 50.3 | 46.3 | - | 54.2 | 1,363 | 19.6 | 16.1 | - | 23.2 |
| $25,000–34,999 | 571 | 55.8 | 49.8 | - | 61.8 | 503 | 14.7 | 10.0 | - | 19.3 |
| $35,000–49,999 | 832 | 48.5 | 43.5 | - | 53.5 | 737 | 13.2 | 9.5 | - | 16.9 |
| $50,000–74,999 | 1,063 | 37.7 | 33.4 | - | 42.1 | 977 | 7.7 | 5.2 | - | 10.2 |
| $75,000+ | 3,423 | 41.1 | 38.8 | - | 43.4 | 3,129 | 7.3 | 5.7 | - | 8.8 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 7.3: Sexual Violence

Respondents were asked if they had experienced sexual violence at any time in their lifetime. Sexual violence was defined as having the sexual parts of the body touched without consent or attempted or completed sex without consent. Presented here are the percentages of men and women who reported that they had experienced sexual violence at some time in their lifetime.

**Questions about sexual violence were asked only on the MA BRFSS landline survey in 2013 and not the cell phone survey; therefore the results in Table 6.3 represent the landline sample only.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 7.3 – Sexual Violence Among Massachusetts Adults,** 2014 | | | | | | | | | | |
|  | Sexual Violence,  Women  N % 95% CI | | | | | Sexual Violence,  Men  N % 95% CI | | | | |
|  |
|  |
| Overall | 1,686 | 16.4 | 12.6 | - | 20.2 | † |  |  |  |  |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | † |  |  |  |  | † |  |  |  |  |
| 25–34 | † |  |  |  |  | † |  |  |  |  |
| 35–44 | 142 | 13.7 | 6.3 | - | 21.1 | † |  |  |  |  |
| 45–54 | 268 | 20.8 | 13.2 | - | 28.3 | † |  |  |  |  |
| 55–64 | 399 | 15.9 | 11.1 | - | 20.6 | † |  |  |  |  |
| 65–74 | 441 | 10.8 | 6.5 | - | 15.1 | † |  |  |  |  |
| 75 and older | 314 |  |  |  |  |  |  |  |  |  |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 1,452 | 15.5 | 11.8 | - | 19.2 | † |  |  |  |  |
| black | † |  |  |  |  | † |  |  |  |  |
| hispanic | † |  |  |  |  | † |  |  |  |  |
| asian | † |  |  |  |  | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 664 | 25.8 | 18.8 | - | 32.8 | † |  |  |  |  |
| no disability | 1,011 | 12.1 | 7.5 | - | 16.7 | † |  |  |  |  |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | † |  |  |  |  | † |  |  |  |  |
| high school | 426 | 9.0 | 4.8 | - | 13.3 | † |  |  |  |  |
| college 1–3 yrs | 442 | 19.7 | 10.8 | - | 28.7 | † |  |  |  |  |
| college 4+ yrs | 708 | 18.3 | 12.9 | - | 23.7 | † |  |  |  |  |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 435 | 16.3 | 9.6 | - | 23.0 | † |  |  |  |  |
| $25,000–34,999 | 145 | 38.4 | 18.8 | - | 58.0 | † |  |  |  |  |
| $35,000–49,999 | † |  |  |  |  | † |  |  |  |  |
| $50,000–74,999 | † |  |  |  |  | † |  |  |  |  |
| $75,000+ | 467 | 16.2 | 9.8 | - | 22.6 | † |  |  |  |  |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 7.4: Unintentional Falls

Respondents ages 45 and older were asked if they had fallen in the past 12 months. They were also asked if they were injured by a fall in the past 12 months. A fall was defined as unintentionally coming to rest on the ground or another lower level. An injury from a fall was defined as one that caused the respondent to limit regular activities for at least a day or to go see a doctor. Presented here is the percentage of adults ages 65 and older who reported falling in the past 12 months and the percentage that were injured from a fall in the past 12 months.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 7.4 - Unintentional Falls, Massachusetts Adults 65 and Older, 2014 | | | | | | | | | | |
|  | Unintentional Falls  N % 95% CI | | | | | Injured by Unintentional Fall  N % 95% CI | | | | |
|  |
|  |
| Overall | 5,233 | 28.6 | 26.8 | - | 30.5 | 5,221 | 10.6 | 9.4 | - | 11.9 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| male | 1,945 | 27.7 | 24.7 | - | 30.7 | 1,942 | 8.2 | 6.4 | - | 10.0 |
| female | 3,288 | 29.3 | 27.0 | - | 31.7 | 3,279 | 12.5 | 10.8 | - | 14.2 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 65–74 | 3,014 | 26.4 | 24.0 | - | 28.8 | 3,010 | 9.4 | 7.8 | - | 10.9 |
| 75-84 | 1,567 | 30.1 | 26.7 | - | 33.4 | 1,560 | 11.5 | 9.3 | - | 13.8 |
| 85 and older | 652 | 35.4 | 29.7 | - | 41.1 | 651 | 14.1 | 9.9 | - | 18.3 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | 4,711 | 28.9 | 26.9 |  | 30.8 | 4,700 | 10.9 | 9.6 | - | 12.2 |
| black | 193 | 29.5 | 18.6 | - | 40.4 | † |  |  |  |  |
| hispanic | 123 | 26.8 | 14.5 | - | 39.2 | † |  |  |  |  |
| asian | † |  |  |  |  | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | 2,418 | 40.0 | 36.9 | - | 43.1 | 2,412 | 16.5 | 14.1 | - | 18.8 |
| no disability | 2,769 | 19.2 | 17.1 | - | 21.3 | 2,763 | 5.8 | 4.6 | - | 6.9 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | 425 | 28.9 | 21.8 | - | 35.9 | 424 | 11.2 | 6.5 | - | 15.9 |
| high school | 1,457 | 26.5 | 23.2 | - | 29.8 | 1,452 | 9.2 | 7.2 | - | 11.3 |
| college 1–3 yrs | 1,297 | 29.7 | 26.1 | - | 33.3 | 1,293 | 12.3 | 9.7 | - | 15.0 |
| college 4+ yrs | 2,035 | 29.9 | 27.4 | - | 32.5 | 2,033 | 10.3 | 8.7 | - | 11.9 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 1,425 | 33.2 | 29.1 | - | 37.4 | 1,420 | 14.3 | 11.3 | - | 17.3 |
| $25,000–34,999 | 579 | 25.2 | 20.1 | - | 30.3 | 579 | 8.8 | 5.4 | - | 12.2 |
| $35,000–49,999 | 711 | 25.3 | 20.5 | - | 30.1 | 710 | 10.1 | 7.0 | - | 13.2 |
| $50,000–74,999 | 649 | 26.6 | 21.6 | - | 31.7 | 649 | 9.4 | 6.4 | - | 12.5 |
| $75,000+ | 908 | 28.7 | 24.9 | - | 32.6 | 906 | 8.9 | 6.4 | - | 11.4 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | |

## Section 7.5: Drinking and Driving

All respondents were asked if they had had at least one alcoholic drink in the past month. A drink of alcohol was defined as a twelve ounce can or bottle of beer, one five ounce glass of wine, or one drink with one shot of liquor. Those who reported that they had had at least one alcoholic drink in the past month were asked how many times during the past 30 days they had driven after having too much to drink. Presented here is the percentage of all adults who reported driving at least one time during the past month after drinking too much in their opinion.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 7.5 – Drinking and Driving Among Massachusetts Adults**, 2014 | | | | | |
|  | Drinking and Driving in past 30 days  N % 95% CI | | | | |
| Overall | 14,502 | 2.0 | 1.6 | - | 2.4 |
| Gender |  |  |  |  |  |
| male | 5,784 | 3.3 | 2.6 | - | 4.0 |
| female | 8,718 | 0.9 | 0.6 | - | 1.2 |
| Age Group |  |  |  |  |  |
| 18–24 | 605 | 2.1 | 0.9 | - | 3.3 |
| 25–34 | 1,180 | 3.7 | 2.2 | - | 5.1 |
| 35–44 | 1,480 | 2.4 | 1.4 | - | 3.3 |
| 45–54 | 2,391 | 2.3 | 1.5 | - | 3.1 |
| 55–64 | 3,273 | 1.6 | 1.0 | - | 2.1 |
| 65–74 | 3,048 | 0.7 | 0.3 | - | 1.0 |
| 75 and older | 2,250 |  |  |  |  |
| Race-ethnicity\* |  |  |  |  |  |
| white | 11,959 | 2.2 | 1.7 | - | 2.6 |
| black | † |  |  |  |  |
| hispanic | † |  |  |  |  |
| asian | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |
| disability | 5,206 | 2.0 | 1.2 | - | 2.7 |
| no disability | 9,189 | 2.0 | 1.6 | - | 2.4 |
| Education |  |  |  |  |  |
| < high school | † |  |  |  |  |
| high school | 3,297 | 2.0 | 1.2 | - | 2.8 |
| college 1–3 yrs | 3,494 | 2.0 | 1.3 | - | 2.8 |
| college 4+ yrs | 6,733 | 2.2 | 1.7 | - | 2.8 |
| Household Income |  |  |  |  |  |
| <$25,000 | † |  |  |  |  |
| $25,000–34,999 | † |  |  |  |  |
| $35,000–49,999 | 1,611 | 1.6 | 0.8 | - | 2.4 |
| $50,000–74,999 | 1,790 | 2.5 | 1.3 | - | 3.8 |
| $75,000+ | 4,554 | 3.0 | 2.3 | - | 3.7 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | |

## Section 7.6: Seatbelt Use

All respondents were asked how often they wear a seatbelt when riding or driving in a car. Presented here is the percentage of adults who reported that they always wear their seatbelts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 7.6 – Seatbelt Use Among Massachusetts Adults**, 2014 | | | | | |
|  | Always use a seatbelt  N % 95% CI | | | | |
| Overall | 14,411 | 81.8 | 80.8 | - | 82.9 |
| Gender |  |  |  |  |  |
| male | 5,768 | 77.6 | 76.0 | - | 79.3 |
| female | 8,643 | 85.6 | 84.3 | - | 86.9 |
| Age Group |  |  |  |  |  |
| 18–24 | 603 | 73.9 | 69.5 | - | 78.4 |
| 25–34 | 1,178 | 79.9 | 76.9 | - | 83.0 |
| 35–44 | 1,480 | 82.2 | 79.4 | - | 85.1 |
| 45–54 | 2,376 | 82.6 | 80.4 | - | 84.8 |
| 55–64 | 3,254 | 83.9 | 82.0 | - | 85.7 |
| 65–74 | 3,029 | 83.1 | 80.8 | - | 85.3 |
| 75 and older | 2,218 | 88.0 | 86.0 | - | 90.1 |
| Race-ethnicity\* |  |  |  |  |  |
| white | 11,892 | 81.5 | 80.4 | - | 82.7 |
| black | 719 | 80.8 | 76.2 | - | 85.3 |
| hispanic | 779 | 81.9 | 78.0 | - | 85.7 |
| asian | 311 | 85.0 | 79.2 | - | 90.8 |
| Disability¶ |  |  |  |  |  |
| disability | 5,141 | 78.7 | 76.7 | - | 80.7 |
| no disability | 9,166 | 83.3 | 82.1 | - | 84.5 |
| Education |  |  |  |  |  |
| < high school | 878 | 73.1 | 68.2 | - | 77.9 |
| high school | 3,261 | 75.4 | 72.9 | - | 77.8 |
| college 1–3 yrs | 3,476 | 81.7 | 79.7 | - | 83.6 |
| college 4+ yrs | 6,718 | 89.0 | 88.0 | - | 90.1 |
| Household Income |  |  |  |  |  |
| <$25,000 | 3,112 | 76.7 | 74.0 | - | 79.3 |
| $25,000–34,999 | 1,183 | 80.3 | 76.6 | - | 84.0 |
| $35,000–49,999 | 1,603 | 78.5 | 75.1 | - | 81.8 |
| $50,000–74,999 | 1,787 | 79.3 | 76.2 | - | 82.5 |
| $75,000+ | 4,565 | 86.3 | 84.7 | - | 87.9 |
| \* White, Black, and Asian race categories refer to non-Hispanic  ¶ See p 62 for definition of disability | | | | | |

## Section 7.7: Family Planning

All women ages 18-50 who were currently pregnant or had been pregnant in the past five years were asked if they had wanted to be pregnant sooner, later, or not at all. Unplanned pregnancy was defined as wanting to be pregnant later or not at all. Women ages 18-50, who had not had a hysterectomy or sterilization, were not currently pregnant, and whose partners were not reported to have been sterilized nor had a vasectomy also were asked whether they or their partners currently use some form of birth control. Presented below are the percentage of females ages 18-44 who reported an unplanned pregnancy and the percentage of females ages 18-44 who reported that they or their partner use some form of birth control. The more restricted ages are presented here to be consistent with national data.

**Questions about family planning were asked only on the MA BRFSS landline survey in 2014 and not the cell phone survey; therefore the results in Table 7.7 represent the landline sample only.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 7.7 – Family Planning Among Massachusetts Women, Ages 18-44, 2014 | | | | | | | | | | |
|  | Unplanned Pregnancy  N % 95% CI | | | | | Use Birth Control  N % 95% CI | | | | |
|  |
|  |
| Overall | † |  |  |  |  | 229 | 65.8 | 56.1 | - | 75.4 |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 18–24 | † |  |  |  |  | † |  |  |  |  |
| 25–34 | † |  |  |  |  | 68 | 62.5 | 45.7 | - | 79.2 |
| 35–44 | † |  |  |  |  | 135 | 60.1 | 47.5 | - | 72.8 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |
| white | † |  |  |  |  | 157 | 75.3 | 65.2 | - | 85.4 |
| black | † |  |  |  |  | † |  |  |  |  |
| hispanic | † |  |  |  |  | † |  |  |  |  |
| asian | † |  |  |  |  | † |  |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |
| disability | † |  |  |  |  | † |  |  |  |  |
| no disability | † |  |  |  |  | 178 | 63.0 | 51.9 | - | 74.1 |
| Education |  |  |  |  |  |  |  |  |  |  |
| < high school | † |  |  |  |  | † |  |  |  |  |
| high school | † |  |  |  |  | † |  |  |  |  |
| college 1–3 yrs | † |  |  |  |  | 62 | 58.3 | 39.6 | - | 77.1 |
| college 4+ yrs | † |  |  |  |  | 120 | 68.9 | 55.5 | - | 82.3 |
| Household Income |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | † |  |  |  |  | 51 | 64.6 | 43.6 | - | 85.6 |
| $25,000–34,999 | † |  |  |  |  | † |  |  |  |  |
| $35,000–49,999 | † |  |  |  |  | † |  |  |  |  |
| $50,000–74,999 | † |  |  |  |  | † |  |  |  |  |
| $75,000+ | † |  |  |  |  | 92 | 74.4 | 61.8 | - | 87.1 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient Data  ¶ See p 62 for definition of disability | | | | | | | | | | |

# Appendix

## Age-Adjusted Percentages For Selected Topics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Massachusetts Behavioral Risk Factor Surveillance System, 2014** | | | | | | | | | | | | | | | | | | | | |
|  | Fair or Poor Health | | | | Poor Mental Health | | | | Poor Physical Health | | | | Disability | | | | No Health Insurance (Ages 18-64) | | | |
|  | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | |
| Overall | 14.3 | 13.3 | - | 15.3 | 11.3 | 10.4 | - | 12.2 | 9.6 | 8.8 | - | 10.3 | 29.8 | 28.5 | - | 31.0 | 3.3 | 2.6 | - | 4.0 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| male | 13.5 | 12.2 | - | 14.9 | 9.8 | 8.6 | - | 11.0 | 9.0 | 7.9 | - | 10.1 | 27.3 | 25.6 | - | 29.1 | 5.2 | 4.0 | - | 6.5 |
| female | 14.6 | 13.3 | - | 15.8 | 12.9 | 11.6 | - | 14.2 | 9.9 | 8.9 | - | 10.9 | 32.1 | 30.4 | - | 33.8 | 1.6 | 1.0 | - | 2.1 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| white | 11.9 | 10.9 | - | 12.9 | 11.1 | 10.0 | - | 12.2 | 9.5 | 8.6 | - | 10.4 | 29.1 | 27.6 | - | 30.5 | 2.5 | 1.8 | - | 3.2 |
| black | 15.4 | 12.1 | - | 18.8 | 13.5 | 9.9 | - | 17.1 | 8.1 | 5.4 | - | 10.9 | 32.8 | 27.8 | - | 37.9 | † |  |  |  |
| hispanic | 35.4 | 30.7 | - | 40.1 | 15.0 | 11.8 | - | 18.1 | 13.2 | 9.8 | - | 16.5 | 44.1 | 39.2 | - | 49.0 | 6.7 | 3.7 | - | 9.6 |
| asian | 6.1 | 2.7 | - | 9.6 | † |  |  |  | † |  |  |  | 14.7 | 8.9 | - | 20.4 | † |  |  |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| disability | 36.4 | 33.8 | - | 39.1 | 29.4 | 26.7 | - | 32.1 | 27.7 | 25.2 | - | 30.2 | n/a |  |  |  | 3.9 | 2.6 | - | 5.1 |
| no disability | 4.7 | 3.9 | - | 5.5 | 4.6 | 4.0 | - | 5.3 | 2.0 | 1.6 | - | 2.5 | n/a |  |  |  | 3.0 | 2.2 | - | 3.8 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < high school | 35.6 | 30.6 | - | 40.5 | 20.2 | 15.8 | - | 24.6 | 16.4 | 12.8 | - | 20.1 | 51.5 | 45.8 | - | 57.2 | 6.9 | 6.2 | - | 7.7 |
| high school | 17.7 | 15.6 | - | 19.8 | 14.1 | 12.1 | - | 16.1 | 12.2 | 10.4 | - | 14.0 | 33.7 | 31.0 | - | 36.5 | 5.1 | 3.4 | - | 6.8 |
| college 1–3 yrs | 14.5 | 12.6 | - | 16.3 | 13.4 | 11.6 | - | 15.3 | 11.6 | 9.9 | - | 13.2 | 31.4 | 29.0 | - | 33.8 | 3.5 | 2.3 | - | 4.8 |
| college 4+ yrs | 5.1 | 4.5 | - | 5.7 | 6.0 | 5.1 | - | 6.8 | 4.7 | 4.1 | - | 5.4 | 20.3 | 18.9 | - | 21.7 | 1.2 | 0.7 | - | 1.7 |
| Household Income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 35.1 | 32.1 | - | 38.2 | 23.9 | 21.3 | - | 26.6 | 22.3 | 19.6 | - | 25.0 | 54.6 | 51.3 | - | 57.9 | 7.2 | 4.8 | - | 9.5 |
| $25,000–34,999 | 15.5 | 12.4 | - | 18.6 | 14.0 | 9.6 | - | 18.4 | 10.7 | 7.9 | - | 13.5 | 35.1 | 30.1 | - | 40.0 | 4.5 | 2.1 | - | 7.0 |
| $35,000–49,999 | 12.9 | 9.9 | - | 15.9 | 11.6 | 8.6 | - | 14.6 | 8.4 | 6.1 | - | 10.6 | 26.9 | 23.2 | - | 30.7 | 5.4 | 3.1 | - | 7.7 |
| $50,000–74,999 | 7.5 | 4.9 | - | 10.2 | 10.6 | 7.9 | - | 13.3 | 5.4 | 4.0 | - | 6.8 | 19.6 | 16.6 | - | 22.7 | † |  |  |  |
| $75,000+ | 4.2 | 3.4 | - | 5.0 | 5.6 | 4.4 | - | 6.8 | 4.0 | 3.2 | - | 4.8 | 18.0 | 16.3 | - | 19.7 | † |  |  |  |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | | | | | | | | | | | |

**Age-Adjusted Percentages for Selected Topics (continued)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Massachusetts Behavioral Risk Factor Surveillance System, 2014** | | | | | | | | | | | | | | | | | | | | |
|  | Personal Doctor | | | | No Doctor due to Cost | | | | Checkup in Past Year | | | | Dental Visit in Past Year | | | | 6+ Teeth Lost to Decay | | | |
|  | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | |
| Overall | 88.9 | 88.0 | - | 89.9 | 8.6 | 7.7 | - | 9.4 | 77.5 | 76.3 | - | 78.7 | 74.6 | 73.4 | - | 75.8 | 14.8 | 13.9 | - | 15.7 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| male | 84.4 | 82.9 | - | 86.0 | 9.1 | 7.8 | - | 10.4 | 73.7 | 71.9 | - | 75.5 | 72.0 | 70.2 | - | 73.8 | 14.6 | 13.4 | - | 15.8 |
| female | 92.7 | 91.7 | - | 93.7 | 8.2 | 7.1 | - | 9.2 | 81.1 | 79.6 | - | 82.6 | 76.9 | 75.4 | - | 78.4 | 14.8 | 13.6 | - | 15.9 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| white | 90.1 | 89.0 | - | 91.2 | 7.2 | 6.3 | - | 8.2 | 77.3 | 75.9 | - | 78.6 | 76.3 | 75.0 | - | 77.6 | 14.0 | 13.0 | - | 14.9 |
| black | 88.5 | 84.6 | - | 92.4 | 11.2 | 7.7 | - | 14.8 | 82.4 | 78.1 | - | 86.6 | 65.1 | 60.1 | - | 70.1 | 22.8 | 18.6 | - | 27.0 |
| hispanic | 85.7 | 82.5 | - | 89.0 | 17.6 | 13.7 | - | 21.5 | 82.8 | 79.2 | - | 86.4 | 67.4 | 62.6 | - | 72.2 | 22.2 | 18.2 | - | 26.3 |
| asian | 87.5 | 83.0 | - | 91.9 | 8.3 | 3.6 | - | 12.9 | 73.3 | 66.8 | - | 79.9 | 77.6 | 71.6 | - | 83.5 | † |  | - |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| disability | 90.0 | 88.2 | - | 91.8 | 16.8 | 14.5 | - | 19.2 | 79.7 | 77.3 | - | 82.1 | 66.6 | 64.0 | - | 69.2 | 25.7 | 23.3 | - | 28.0 |
| no disability | 88.6 | 87.4 | - | 89.7 | 5.5 | 4.7 | - | 6.4 | 76.5 | 75.2 | - | 77.9 | 78.2 | 76.8 | - | 79.5 | 10.0 | 9.2 | - | 10.9 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < high school | 83.2 | 78.8 | - | 87.7 | 19.2 | 14.5 | - | 23.9 | 81.9 | 77.5 | - | 86.4 | 60.3 | 55.0 | - | 65.7 | 35.4 | 30.5 | - | 40.3 |
| high school | 86.0 | 83.8 | - | 88.3 | 10.3 | 8.5 | - | 12.1 | 75.4 | 72.7 | - | 78.1 | 67.4 | 64.7 | - | 70.1 | 19.7 | 17.9 | - | 21.5 |
| college 1–3 yrs | 89.7 | 88.1 | - | 91.3 | 9.1 | 7.5 | - | 10.7 | 79.3 | 77.1 | - | 81.5 | 73.5 | 71.2 | - | 75.8 | 13.9 | 12.6 | - | 15.3 |
| college 4+ yrs | 91.2 | 90.0 | - | 92.3 | 4.2 | 3.5 | - | 4.9 | 75.8 | 74.1 | - | 77.4 | 83.5 | 82.0 | - | 85.0 | 5.3 | 4.8 | - | 5.9 |
| Household Income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 83.6 | 81.0 | - | 86.2 | 17.1 | 14.4 | - | 19.8 | 79.2 | 76.4 | - | 81.9 | 58.6 | 55.4 | - | 61.7 | 28.1 | 25.5 | - | 30.7 |
| $25,000–34,999 | 89.7 | 86.8 | - | 92.6 | 12.5 | 9.4 | - | 15.7 | 78.5 | 74.1 | - | 82.8 | 67.5 | 62.8 | - | 72.2 | 23.0 | 18.5 | - | 27.5 |
| $35,000–49,999 | 86.1 | 82.9 | - | 89.3 | 10.1 | 7.4 | - | 12.8 | 73.5 | 69.5 | - | 77.4 | 70.0 | 66.1 | - | 73.9 | 16.5 | 14.0 | - | 19.1 |
| $50,000–74,999 | 89.5 | 86.8 | - | 92.1 | 7.8 | 5.5 | - | 10.0 | 75.1 | 71.4 | - | 78.8 | 76.8 | 73.3 | - | 80.4 | 9.6 | 8.0 | - | 11.1 |
| $75,000+ | 93.1 | 91.8 | - | 94.4 | 2.8 | 2.1 | - | 3.6 | 77.5 | 75.5 | - | 79.4 | 85.8 | 84.2 | - | 87.3 | 6.5 | 5.5 | - | 7.5 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | | | | | | | | | | | |

**Age-Adjusted Percentages for Selected Topics (continued)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Massachusetts Behavioral Risk Factor Surveillance System, 2014** | | | | | | | | | | | | | | | | | | | | |
|  | Current Smoker | | | | Former Smoker | | | | Use Smokeless Tobacco | | | | Quit Attempt | | | | No Smoking in House | | | |
|  | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | |
| Overall | 15.0 | 14.0 | - | 16.1 | 25.6 | 24.6 | - | 26.7 | 1.6 | 1.2 | - | 1.9 | 65.1 | 61.6 | - | 68.6 | 81.1 | 79.0 | - | 83.3 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| male | 17.0 | 15.3 | - | 18.6 | 27.6 | 26.0 | - | 29.2 | 2.5 | 1.9 | - | 3.2 | 66.7 | 62.0 | - | 71.4 | 79.2 | 75.8 | - | 82.6 |
| female | 13.2 | 11.9 | - | 14.5 | 23.9 | 22.5 | - | 25.2 | 0.6 | 0.4 | - | 0.9 | 63.1 | 57.8 | - | 68.4 | 82.9 | 80.3 | - | 85.6 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| white | 15.8 | 14.5 | - | 17.1 | 28.3 | 27.0 | - | 29.6 | 1.7 | 1.2 | - | 2.2 | 61.4 | 57.2 | - | 65.6 | 81.2 | 78.7 | - | 83.8 |
| black | 18.1 | 13.7 | - | 22.4 | 15.2 | 11.5 | - | 18.9 | † |  | - |  | 76.3 | 69.8 | - | 82.8 | 76.1 | 69.4 | - | 82.8 |
| hispanic | 16.8 | 12.7 | - | 20.9 | 15.3 | 11.8 | - | 18.8 | † |  | - |  | 76.9 | 75.2 | - | 78.6 | 80.3 | 76.5 | - | 84.1 |
| asian | 5.3 | 2.5 | - | 8.1 | 15.7 | 10.0 | - | 21.3 | † |  | - |  | 84.5 | 84.5 | - | 84.5 | 92.6 | 84.3 | - | 101 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| disability | 27.7 | 24.9 | - | 30.4 | 27.0 | 24.8 | - | 29.1 | 2.0 | 1.1 | - | 2.9 | 67.0 | 61.8 | - | 72.2 | 72.1 | 67.5 | - | 76.7 |
| no disability | 10.4 | 9.4 | - | 11.4 | 25.2 | 24.0 | - | 26.4 | 1.4 | 1.0 | - | 1.7 | 62.6 | 57.9 | - | 67.4 | 84.6 | 82.2 | - | 87.0 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < high school | 30.0 | 24.5 | - | 35.5 | 21.3 | 17.4 | - | 25.2 |  |  | - |  | 67.9 | 65.6 | - | 70.1 | 65.6 | 55.4 | - | 75.9 |
| high school | 21.8 | 19.3 | - | 24.3 | 28.7 | 26.1 | - | 31.2 | 1.7 | 0.9 | - | 2.5 | 62.6 | 56.5 | - | 68.7 | 72.6 | 67.3 | - | 78.0 |
| college 1–3 yrs | 17.2 | 15.2 | - | 19.2 | 28.8 | 26.6 | - | 31.0 | 1.1 | 0.6 | - | 1.6 | 66.1 | 60.2 | - | 72.0 | 78.6 | 74.6 | - | 82.6 |
| college 4+ yrs | 5.5 | 4.7 | - | 6.3 | 23.6 | 22.3 | - | 25.0 | 1.5 | 1.0 | - | 1.9 | 66.1 | 65.0 | - | 67.2 | 91.6 | 89.7 | - | 93.5 |
| Household Income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 28.6 | 25.4 | - | 31.8 | 22.7 | 20.3 | - | 25.1 | 2.1 | 1.1 | - | 3.2 | 66.0 | 60.0 | - | 72.0 | 66.6 | 60.6 | - | 72.7 |
| $25,000–34,999 | 24.1 | 19.0 | - | 29.2 | 24.8 | 20.6 | - | 29.0 | † |  | - |  | 62.0 | 61.6 | - | 62.3 | 65.7 | 54.3 | - | 77.1 |
| $35,000–49,999 | 17.4 | 14.1 | - | 20.6 | 28.6 | 25.0 | - | 32.3 | † |  | - |  | 60.9 | 56.8 | - | 65.1 | 76.6 | 69.5 | - | 83.8 |
| $50,000–74,999 | 12.6 | 9.8 | - | 15.3 | 27.9 | 25.0 | - | 30.9 | † |  | - |  | 67.6 | 57.9 | - | 77.2 | 80.6 | 73.6 | - | 87.7 |
| $75,000+ | 6.4 | 5.3 | - | 7.5 | 27.2 | 25.5 | - | 28.9 | 1.6 | 1.0 | - | 2.2 | 66.2 | 65.2 | - | 67.3 | 92.6 | 91.1 | - | 94.2 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | | | | | | | | | | | |

**Age-Adjusted Percentages for Selected Topics (continued)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Massachusetts Behavioral Risk Factor Surveillance System, 2014** | | | | | | | | | | | | | | | | | | | | |
|  | Environmental Smoke | | | | Binge Drinking | | | | Heavy Drinking | | | | Overweight (BMI≥25.0) | | | | Obese (BMI≥30.0) | | | |
|  | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | |
| Overall | 35.6 | 33.1 | - | 38.2 | 18.5 | 17.4 | - | 19.6 | 7.0 | 6.3 | - | 7.7 | 58.9 | 57.5 | - | 60.3 | 23.4 | 22.2 | - | 24.5 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| male | 39.1 | 35.0 | - | 43.1 | 23.9 | 22.1 | - | 25.6 | 7.2 | 6.2 | - | 8.3 | 66.5 | 64.6 | - | 68.4 | 23.4 | 21.8 | - | 25.0 |
| female | 32.8 | 29.6 | - | 36.1 | 13.5 | 12.2 | - | 14.8 | 6.8 | 6.0 | - | 7.7 | 50.5 | 48.7 | - | 52.4 | 23.0 | 21.4 | - | 24.6 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| white | 36.4 | 33.4 | - | 39.4 | 20.3 | 19.0 | - | 21.7 | 8.2 | 7.3 | - | 9.1 | 58.6 | 57.0 | - | 60.2 | 22.5 | 21.2 | - | 23.8 |
| black | 40.4 | 31.6 |  | 49.3 | 14.0 | 9.9 | - | 18.0 | 3.3 | 1.4 | - | 5.2 | 71.5 | 66.4 | - | 76.5 | 34.7 | 29.5 | - | 40.0 |
| hispanic | 38.0 | 33.7 |  | 42.3 | 12.4 | 9.2 | - | 15.7 | 4.2 | 2.2 | - | 6.3 | 65.5 | 60.6 | - | 70.4 | 34.1 | 29.1 | - | 39.0 |
| asian | 19.6 | 16.7 |  | 22.5 | 8.0 | 4.4 | - | 11.6 | 0.3 | 0.3 | - | 0.3 | 37.1 | 29.7 | - | 44.5 | † |  | - |  |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| disability | 45.0 | 40.2 | - | 49.9 | 15.1 | 13.0 | - | 17.2 | 8.0 | 6.4 | - | 9.6 | 63.5 | 60.7 | - | 66.3 | 32.3 | 29.7 | - | 34.9 |
| no disability | 31.8 | 28.8 | - | 34.8 | 19.6 | 18.4 | - | 20.9 | 6.7 | 6.0 | - | 7.5 | 56.7 | 55.1 | - | 58.3 | 19.4 | 18.2 | - | 20.6 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < high school | 42.4 | 32.2 |  | 52.6 | 13.4 | 9.2 | - | 17.7 | 5.5 | 3.1 | - | 7.8 | 60.2 | 54.7 | - | 65.7 | 28.8 | 23.8 | - | 33.9 |
| high school | 44.7 | 39.0 | - | 50.3 | 18.3 | 15.8 | - | 20.8 | 6.4 | 4.9 | - | 8.0 | 62.9 | 59.9 | - | 65.8 | 26.6 | 24.0 | - | 29.1 |
| college 1–3 yrs | 38.4 | 33.4 | - | 43.4 | 18.4 | 16.2 | - | 20.5 | 8.0 | 6.5 | - | 9.5 | 63.4 | 60.8 | - | 66.0 | 28.3 | 26.0 | - | 30.7 |
| college 4+ yrs | 27.8 | 23.9 | - | 31.7 | 21.8 | 20.1 | - | 23.4 | 7.7 | 6.7 | - | 8.7 | 52.5 | 50.7 | - | 54.4 | 16.6 | 15.2 | - | 17.9 |
| Household Income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 48.6 | 42.2 | - | 54.9 | 14.0 | 11.6 | - | 16.4 | 5.2 | 3.7 | - | 6.6 | 60.1 | 56.9 | - | 63.4 | 30.5 | 27.5 | - | 33.4 |
| $25,000–34,999 | 35.3 | 26.8 |  | 43.8 | 17.4 | 13.5 | - | 21.3 | 7.6 | 4.8 | - | 10.4 | 61.3 | 56.1 | - | 66.4 | 26.0 | 21.2 | - | 30.8 |
| $35,000–49,999 | 30.0 | 23.2 |  | 36.7 | 19.0 | 15.4 | - | 22.5 | 7.3 | 4.9 | - | 9.8 | 65.5 | 61.4 | - | 69.5 | 27.7 | 23.9 | - | 31.5 |
| $50,000–74,999 | 34.2 | 26.5 |  | 42.0 | 21.9 | 18.4 | - | 25.4 | 7.1 | 5.1 | - | 9.2 | 58.9 | 54.9 | - | 62.8 | 24.3 | 21.1 | - | 27.6 |
| $75,000+ | 31.1 | 27.0 | - | 35.1 | 23.4 | 21.4 | - | 25.4 | 8.9 | 7.6 | - | 10.1 | 57.4 | 55.1 | - | 59.6 | 18.6 | 17.1 | - | 20.2 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | | | | | | | | | | | |

**Age-Adjusted Percentages for Selected Topics (continued)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Massachusetts Behavioral Risk Factor Surveillance System, 2014** | | | | | | | | | | | | | | | | | | | | |
|  | Any Physical Activity | | | | Received 3 Shots HBV Vaccine | | | | Pre-diabetes | | | | Diabetes | | | | Ever had Asthma | | | |
|  | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | |
| Overall | 80.4 | 79.3 | - | 81.5 | 43.6 | 41.3 | - | 45.9 | 6.7 | 5.8 | - | 7.5 | 9.0 | 8.3 | - | 9.7 | 18.2 | 17.1 | - | 19.3 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| male | 82.1 | 80.5 | - | 83.6 | 39.7 | 36.2 | - | 43.1 | 7.7 | 6.2 | - | 9.2 | 10.9 | 9.8 | - | 12.0 | 14.1 | 12.7 | - | 15.5 |
| female | 78.7 | 77.2 | - | 80.2 | 47.2 | 44.2 | - | 50.2 | 5.9 | 5.0 | - | 6.9 | 7.3 | 6.5 | - | 8.0 | 21.3 | 19.8 | - | 22.8 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| white | 83.2 | 82.1 | - | 84.3 | 41.7 | 39.0 | - | 44.3 | 6.2 | 5.3 | - | 7.1 | 8.0 | 7.3 | - | 8.7 | 17.6 | 16.4 | - | 18.9 |
| black | 74.2 | 69.3 | - | 79.0 | 51.1 | 43.3 | - | 58.9 | 14.4 | 8.3 | - | 20.6 | 12.2 | 9.4 | - | 15.1 | 20.0 | 15.7 | - | 24.3 |
| hispanic | 65.9 | 61.1 | - | 70.6 | 48.0 | 39.4 | - | 56.5 | 6.6 | 3.2 | - | 10.1 | 17.1 | 13.4 | - | 20.8 | 24.5 | 20.4 | - | 28.6 |
| asian | 76.6 | 69.4 | - | 83.8 | 62.0 | 51.0 | - | 73.0 | † |  | - |  | 11.0 | 5.4 | - | 16.7 | 13.4 | 6.7 | - | 20.2 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| disability | 67.8 | 65.2 | - | 70.5 | 42.0 | 37.4 | - | 46.5 | 9.9 | 7.5 | - | 12.3 | 15.4 | 13.5 | - | 17.3 | 29.5 | 26.9 | - | 32.1 |
| no disability | 86.1 | 84.9 | - | 87.2 | 44.5 | 41.8 | - | 47.2 | 5.4 | 4.5 | - | 6.2 | 6.2 | 5.5 | - | 6.8 | 13.8 | 12.7 | - | 14.9 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < high school | 60.8 | 55.6 | - | 66.1 | 30.3 | 25.5 | - | 35.1 | 5.9 | 3.2 | - | 8.7 | 16.5 | 13.0 | - | 20.1 | 23.4 | 18.9 | - | 27.9 |
| high school | 72.3 | 69.7 | - | 74.9 | 34.8 | 29.7 | - | 39.8 | 9.2 | 6.4 | - | 12.1 | 10.1 | 8.8 | - | 11.5 | 18.1 | 15.9 | - | 20.4 |
| college 1–3 yrs | 81.5 | 79.6 | - | 83.5 | 46.1 | 41.9 | - | 50.4 | 7.4 | 5.7 | - | 9.1 | 8.9 | 7.7 | - | 10.1 | 18.9 | 16.8 | - | 21.0 |
| college 4+ yrs | 90.9 | 90.0 | - | 91.8 | 48.6 | 44.9 | - | 52.3 | 5.0 | 4.2 | - | 5.8 | 5.7 | 5.0 | - | 6.3 | 16.0 | 14.6 | - | 17.4 |
| Household Income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 64.8 | 61.7 | - | 67.9 | 38.5 | 32.9 | - | 44.1 | 10.4 | 7.1 | - | 13.8 | 15.8 | 13.6 | - | 17.9 | 25.4 | 22.5 | - | 28.2 |
| $25,000–34,999 | 76.3 | 72.2 | - | 80.5 | 45.9 | 36.6 | - | 55.2 | 6.2 | 3.7 | - | 8.7 | 10.6 | 8.0 | - | 13.2 | 17.6 | 13.9 | - | 21.2 |
| $35,000–49,999 | 79.4 | 75.6 | - | 83.2 | 45.5 | 37.9 | - | 53.0 | 7.4 | 4.8 | - | 9.9 | 7.8 | 6.1 | - | 9.6 | 15.7 | 12.8 | - | 18.6 |
| $50,000–74,999 | 84.7 | 81.7 | - | 87.7 | 36.9 | 29.9 | - | 43.9 | 6.5 | 4.6 | - | 8.5 | 9.1 | 6.8 | - | 11.3 | 15.3 | 12.3 | - | 18.4 |
| $75,000+ | 90.7 | 89.5 | - | 92.0 | 49.4 | 45.7 | - | 53.2 | 4.9 | 4.0 | - | 5.9 | 5.5 | 4.7 | - | 6.3 | 15.8 | 14.1 | - | 17.5 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | | | | | | | | | | | |

**Age-Adjusted Percentages for Selected Topics (continued)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Massachusetts Behavioral Risk Factor Surveillance System, 2014** | | | | | | | | | | | | | | | | | | | | |
|  | Currently have Asthma | | | | Ever Diagnosed with COPD | | | | Ever Diagnosed with Cancer | | | | Ever Diagnosed with Depression | | | | Ever Tested for HIV - ages 18-64 | | | |
|  | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | | % | 95% CI | | |
| Overall | 12.4 | 11.4 | - | 13.3 | 6.2 | 5.5 | - | 6.8 | 11.4 | 10.7 | - | 12.0 | 22.2 | 21.0 | - | 23.4 | 45.9 | 44.3 | - | 47.4 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| male | 8.1 | 7.0 | - | 9.2 | 5.5 | 4.6 | - | 6.4 | 10.7 | 9.8 | - | 11.6 | 17.5 | 16.0 | - | 19.1 | 44.2 | 41.8 | - | 46.5 |
| female | 15.8 | 14.4 | - | 17.1 | 6.8 | 5.9 | - | 7.7 | 11.9 | 11.1 | - | 12.7 | 26.1 | 24.4 | - | 27.7 | 47.5 | 45.4 | - | 49.7 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| white | 12.1 | 11.0 | - | 13.2 | 6.2 | 5.5 | - | 7.0 | 12.4 | 11.7 | - | 13.2 | 22.5 | 21.2 | - | 23.9 | 42.9 | 41.0 | - | 44.7 |
| black | 15.3 | 11.4 | - | 19.1 | 3.9 | 2.2 | - | 5.6 | 4.6 | 2.6 | - | 6.5 | 17.8 | 13.7 | - | 21.8 | 70.7 | 65.3 | - | 76.2 |
| hispanic | 15.8 | 12.4 | - | 19.1 | 7.6 | 4.6 | - | 10.6 | 7.5 | 4.9 | - | 10.1 | 32.5 | 27.7 | - | 37.2 | 60.0 | 54.8 | - | 65.3 |
| asian | 4.9 | 2.1 |  | 7.7 | † |  | - |  | † |  | - |  | 9.5 | 5.2 | - | 13.7 | 27.3 | 20.7 |  | 33.9 |
| Disability¶ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| disability | 22.9 | 20.5 | - | 25.4 | 14.3 | 12.3 | - | 16.4 | 14.5 | 13.0 | - | 16.0 | 48.7 | 45.8 | - | 51.5 | 57.9 | 54.7 | - | 61.2 |
| no disability | 8.3 | 7.4 | - | 9.1 | 2.5 | 2.1 | - | 3.0 | 10.1 | 9.4 | - | 10.8 | 12.2 | 11.2 | - | 13.3 | 41.4 | 39.6 | - | 43.1 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| < high school | 18.4 | 14.4 | - | 22.5 | 16.3 | 12.3 | - | 20.2 | 10.0 | 7.4 | - | 12.6 | 37.6 | 32.2 | - | 43.1 | 60.2 | 59.2 | - | 61.1 |
| high school | 12.3 | 10.5 | - | 14.2 | 7.9 | 6.6 | - | 9.2 | 9.6 | 8.5 | - | 10.7 | 22.9 | 20.4 | - | 25.3 | 40.0 | 36.5 | - | 43.5 |
| college 1–3 yrs | 12.8 | 11.1 | - | 14.6 | 5.8 | 4.7 | - | 7.0 | 12.6 | 11.3 | - | 13.8 | 22.8 | 20.5 | - | 25.1 | 49.7 | 46.5 | - | 52.9 |
| college 4+ yrs | 10.2 | 9.0 | - | 11.5 | 2.2 | 1.8 | - | 2.6 | 12.1 | 11.3 | - | 12.9 | 16.9 | 15.6 | - | 18.3 | 44.6 | 42.3 | - | 46.8 |
| Household Income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <$25,000 | 19.0 | 16.5 | - | 21.5 | 13.5 | 11.3 | - | 15.6 | 11.4 | 9.9 | - | 13.0 | 39.0 | 35.8 | - | 42.1 | 53.9 | 49.9 | - | 57.8 |
| $25,000–34,999 | 12.8 | 9.5 | - | 16.1 | 9.6 | 5.6 | - | 13.5 | 9.8 | 7.9 | - | 11.7 | 22.3 | 17.6 | - | 27.0 | 59.2 | 53.3 | - | 65.2 |
| $35,000–49,999 | 10.0 | 7.8 | - | 12.3 | 6.2 | 4.1 | - | 8.3 | 11.1 | 9.2 | - | 13.0 | 21.5 | 17.9 | - | 25.1 | 50.0 | 44.8 | - | 55.2 |
| $50,000–74,999 | 8.3 | 6.1 | - | 10.5 | 4.0 | 2.7 | - | 5.4 | 12.4 | 10.6 | - | 14.3 | 18.1 | 14.8 | - | 21.3 | 39.9 | 35.4 | - | 44.4 |
| $75,000+ | 10.0 | 8.6 | - | 11.5 | 2.3 | 1.7 | - | 2.8 | 11.9 | 10.9 | - | 12.9 | 15.0 | 13.4 | - | 16.6 | 42.7 | 40.2 | - | 45.3 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | | | | | | | | | | | | | |

**Age-Adjusted Percentages for Selected Topics (continued)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Massachusetts Behavioral Risk Factor Surveillance System, 2014** | | | | | | | | |
|  | Tested for HIV in past year - ages 18-64 | | | | Always use a Seatbelt | | | |
|  | % | 95% CI | | | % | 95% CI | | |
| Overall | 11.9 | 10.7 | - | 13.1 | 81.7 | 80.5 | - | 82.8 |
| Gender |  |  |  |  |  |  |  |  |
| male | 12.6 | 10.8 | - | 14.4 | 77.5 | 75.8 | - | 79.3 |
| female | 11.3 | 9.6 | - | 12.9 | 85.2 | 83.8 | - | 86.6 |
| Race-ethnicity\* |  |  |  |  |  |  |  |  |
| white | 9.1 | 7.8 | - | 10.5 | 80.9 | 79.5 | - | 82.3 |
| black | 29.0 | 23.2 | - | 34.8 | 81.3 | 77.0 | - | 85.6 |
| hispanic | 23.0 | 17.4 | - | 28.7 | 82.8 | 79.2 | - | 86.5 |
| asian | 3.8 | 3.4 | - | 4.2 | 85.1 | 78.2 | - | 91.9 |
| Disability¶ |  |  |  |  |  |  |  |  |
| disability | 20.6 | 17.2 | - | 24.1 | 77.5 | 75.0 | - | 80.0 |
| no disability | 9.3 | 8.1 | - | 10.4 | 83.3 | 82.0 | - | 84.6 |
| Education |  |  |  |  |  |  |  |  |
| < high school | 23.2 | 22.1 | - | 24.4 | 72.8 | 67.6 | - | 78.1 |
| high school | 11.5 | 8.8 | - | 14.3 | 73.9 | 71.2 | - | 76.7 |
| college 1–3 yrs | 13.9 | 11.4 | - | 16.3 | 81.6 | 79.5 | - | 83.6 |
| college 4+ yrs | 8.8 | 7.3 | - | 10.3 | 88.9 | 87.6 | - | 90.1 |
| Household Income |  |  |  |  |  |  |  |  |
| <$25,000 | 21.4 | 17.5 | - | 25.3 | 76.5 | 73.6 | - | 79.4 |
| $25,000–34,999 | 14.3 | 9.9 | - | 18.7 | 79.0 | 74.7 | - | 83.3 |
| $35,000–49,999 | 14.0 | 9.8 | - | 18.2 | 77.1 | 73.2 | - | 81.1 |
| $50,000–74,999 | 8.5 | 5.8 | - | 11.3 | 78.9 | 75.3 | - | 82.5 |
| $75,000+ | 8.4 | 6.6 | - | 10.3 | 86.1 | 84.3 | - | 87.9 |
| \* White, Black, and Asian race categories refer to non-Hispanic  † Insufficient data  ¶ See p 62 for definition of disability | | | | | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Massachusetts Behavioral Risk Factor Surveillance System, 2014** | | | |
| Variables | MA  % | US Median¶  % | US Range¶  % |
| Overall Health Measures |  |  |  |
| Fair or poor health | 14.5 | 16.9 | 11.7 – 35.4 |
| 15+ poor mental health days | 11.3 | 10.4 | 7.3 – 15.2 |
| 15+ days in poor physical health | 9.7 | 10.6 | 6.2 – 16.3 |
| Health Care Access and Utilization |  |  |  |
| Have personal health care provider | 89.3 | 76.7 | 64.8 – 89.3 |
| Could not see doctor due to cost | 8.3 | 13.1 | 7.0 – 22.1 |
| Checkup in Past Year | 78.5 | 69.6 | 57.8 – 80.3 |
| Dental Visit in the past year | 74.7 | 65.3 | 54.0 – 74.9 |
| 6 or more teeth missing | 15.6 | 15.1 | 9.0 – 31.3 |
| Risk factors and preventive behaviors |  |  |  |
| Current smoker | 14.7 | 18.1 | 9.7 – 29.2 |
| Former smoker | 26.8 | 24.8 | 15.1 – 32.0 |
| Use Smokeless Tobacco | 1.5 | 4.2 | 0.9 – 8.8 |
| Quit attempt among current Smokers | 65.2 | 60.1 | 52.7 – 70.7 |
| Binge drinking | 17.4 | 16.0 | 9.6 – 24.9 |
| Heavy drinking | 7.0 | 5.9 | 3.3 – 9.1 |
| Overweight | 58.9 | 64.9 | 54.9 – 70.7 |
| Obesity | 23.3 | 29.5 | 21.3 – 35.9 |
| physical activity in past month | 79.9 | 76.8 | 59.4 – 83.6 |
| Flu vaccine in past year (ALL ages) | 43.7 | 39.9 | 25.9 – 50.2 |
| Chronic Health Conditions |  |  |  |
| Diabetes | 9.7 | 10.0 | 7.1 – 15.7 |
| Ever had asthma | 17.6 | 13.8 | 11.1 – 17.6 |
| Currently have asthma | 12.0 | 8.9 | 5.6 – 12.0 |
| Myocardial Infarction (35+) | 5.6 | 6.0 | 3.7 – 9.7 |
| Angina (35+) | 5.8 | 5.8 | 3.6 – 11.0 |
| Stroke (35+) | 3.5 | 4.0 | 2.5 – 6.4 |
| COPD | 6.5 | 6.4 | 3.2 – 13.5 |
| Cancer | 12.5 | 11.6 | 3.7 – 14.7 |
| Cancer Screening |  |  |  |
| Blood Stool Test in past 2 yrs (50+) | 13.8 | 12.7 | 4.8 – 27.3 |
| Sigmoid or Colonoscopy past 5 yrs (50+) | 58.8 | 51.8 | 31.9 – 59.9 |
| Mammography in past 2 yrs (40+) | 82.1 | 72.9 | 62.2 – 82.1 |
| Clinical Breast Exam (40+) | 83.6 | 72.7 | 57.6 – 83.7  .6 - |
| Pap Smear in past Three Years | 73.5 | 68.9 | 59.6 – 76.7 |
| Other Topics |  |  |  |
| Ever tested for HIV (18-64) | 43.4 | 39.7 | 24.0 – 75.0 |
| Drinking & Driving | 2.0 | 1.7 | 0.5 – 4.8 |
| Unintentional Falls 65+) | 28.6 | 28.3 | 20.0 – 34.0 |
| Injury from Unintentional Fall (65+) | 10.6 | 10.2 | 6.6 – 13.0 |
| Seatbelt Use | 81.8 | 85.4 | 63.3 – 93.7 |
| ¶ The US median percentage and range are based on data for all 50 states, District of Columbia, and Territories. | | | |

## Massachusetts and National Estimates

## Item-Specific Non-Response

|  |  |
| --- | --- |
| **Massachusetts Behavioral Risk Factor Surveillance System, 2014** | |
|  | Percentage of Non-Response\*  % |
| Overall Health Measures |  |
| Fair or poor health | 0.3 |
| 15+ days in poor physical health | 2.7 |
| 15+ poor mental health days | 2.1 |
| Disability | 5.7 |
| No health insurance (ages 18-64) | 2.9 |
| Have personal health care provider | 0.4 |
| Could not see doctor due to cost | 0.2 |
| Had Checkup in Past Year | 1.3 |
| Dental Visit in the past year | 1.8 |
| 6 or more teeth missing | 3.9 |
| Current smoker | 6.2 |
| Former smoker  Use smokeless tobacco | 6.2  5.6 |
| Quit attempt among current smokers | 0.5 |
| Exposed to Environmental Smoke | 14.1 |
| Binge drinking | 8.4 |
| Heavy drinking | 8.7 |
| Overweight | 8.1 |
| Obesity | 8.1 |
| leisure-time Physical Activity | 0.1 |
| Flu vaccine in the past year (18-49) | 8.0 |
| Flu vaccine in the past year (50-64) | 6.1 |
| Flu Vaccine in the Past Year (65+) | 6.2 |
| Ever had pneumonia vaccine(65+) | 11.9 |
| HPV Vaccination (Females, 18-34) | 23.5 |
| Hepatitis B Vaccine | 24.0 |
| Ever had Shingles Vaccine (60+) | 8.4 |
| Pre-Diabetes | 10.9 |
| Diabetes | 0.2 |
| Ever had asthma | 0.4 |
| Currently have asthma | 0.9 |
| Heart Attack (35+) | 0.5 |
| Angina or Coronary Heart Disease (35+) | 0.7 |
| Stroke (35+) | 0.4 |
| Ever Cancer Diagnosis | 0.7 |
| Chronic Obstructive Pulmonary Disease | 0.6 |
| Ever diagnosed with Depression | 0.7 |
| Sigmoid or Colonoscopy past 5 yrs (50+) | 11.4 |
| Mammography in past 2 yrs (40+) | 9.4 |
| Ever tested for HIV (18-64) | 12.1 |
| Drinking & Driving | 11.8 |
| Unintentional Falls (65+) | 7.4 |
| Seatbelt Use | 7.9 |
| **\*** The item-specific unweighted non-response % was calculated using the number of respondents who had finished the demographic section of the 2014 BRFSS as the denominator and those who reported don’t know or refused as the numerator. | |

# Terms, Definitions and Statistical Methodology

This report presents data from the **combined sample** - both landline and cell phone respondents except where specifically noted. The combined sample contained 15,654 respondents.

* **The landline component** contained 11,678 respondents (74.6% of the combined sample). Massachusetts landline sample design included three versions (or “splits”), to allow for an increase in the number of optional modules and Massachusetts-added questions asked without an increase in the length of the survey:
* Split 1 contained 4,619 respondents,
* Split 2 contained 3,466respondents,
* Split 3 contained 3,593 respondents.
* In order to obtain more information about minorities, cities of Boston, Brockton, Lowell, Lynn, New Bedford, Quincy, Springfield, and Worcester were over-sampled.
* **The cell phone component** contained 3,976 respondents (25.4% of the combined sample). The cell phone sample was designed without splits. Hampden, Middlesex, Suffolk and Worcester counties were over-sampled. This survey was shorter than the landline survey, consisting of the CDC core questions and only a few Massachusetts-added questions.

The BRFSS data were **weighted** to represent the adult population of Massachusetts. Weighting makes the sample representative in two ways:

* It adjusts for differences in the probability of selection due to the telephone number, the number of telephones in a household, and the number of adults in a household.
* Adjustments are also made to reduce bias from non-response, non-coverage of households without landline telephones or cell phones, and differential participation by sex, age, race/ethnicity, marital status, education, and owner/renter status.

All the weighting factors were multiplied together to get the final weight for each respondent so that the weighted BRFSS data represent the adult population of Massachusetts. Weights were produced for the combined (landline and cell phone) sample, for the entire landline sample, and for each of the three versions of the landline questionnaire.

The underlying **sample size (N)** in each cell of the presented tables is the number of individuals who responded to the specific BRFSS question. These are unweighted numbers. These numbers exclude individuals who reported "not sure, don't know," those who refused to answer the question, or had no response coded (missing or skipped). The underlying size of the sample used to produce particular estimates varies depending on whether the data come from the combined land line and cell phone sample or from one of the sample splits through which some of the optional modules and Massachusetts-added questions were administered.

The **crude percentage** is the weighted proportion of respondents in a particular category. When percentages are reported in the text of this report, they are referring to crude percentages. The crude percentage of respondents used in this report reflects the burden of a certain health status indicator in a specific group of the population, e.g. age group, gender, etc.

The **age-adjusted percentage** is a weighted average of the age-specific proportions. The projected 2000 USpopulation was used as a standard for the calculation. The age-adjusted percentage is a single, calculated number. Age-adjustment is done in order to be able to compare population subgroups with potentially different age structures (e.g., Hispanic vs. White non-Hispanic). The reader should exercise caution when using age-adjusted percentages for the comparison of survey data subgroups. While the estimates have been adjusted by age, other factors like gender, income, or education and their possible correlation may also have an impact on the results of subgroup comparisons (see Appendix). The percentages were not age-adjusted for health indicators obtained for restricted age groups such as cancer screening. Age-adjusted estimates are presented in tables in the Appendix of this report.

The data presented here are univariate, descriptive percentages that are either crude or age-adjusted. No multivariate analysis was performed on this data. In addition, all data presented here are cross-sectional and thus this report contains no inferences about causality.

**The US median** was calculated for the estimates from all participating states, the District of Columbia, and territories for each respective indicator when available. The values were ordered from lowest to highest and the middle value is then chosen (if the number of values is odd) or calculated as the average of the two middle values (if the number of values is even). The median then represents a value for which half of the states have higher estimates and half of the states have lower estimates.

**The 95% confidence interval (95% CI)** is a range of values determined by the degree of variability of the data within which the true value is likely to lie. The confidence interval indicates the precision of a calculation; the wider the interval the less precision in the estimate. The 95% confidence intervals used in this report for crude and age-adjusted percentages are the indicators of reliability (or stability) of the estimate. Smaller population subgroups or smaller numbers of respondents yield less precise estimates.

**Suppression of the presented estimates**:

1. Estimates and their 95% confidence intervals are not presented in the tables if the underlying sample size is less than 50 respondents.
2. Following recommendations of the National Center for Health Statistics, data are not presented in the tables if a ratio of standard error to the estimate itself exceeds 30% (relative standard error of greater than 30%). Standard error of the estimate is a measure of its variability. Bigger standard errors yield wider confidence intervals and less reliable estimates.

For this report, respondents were classified as having a **disability** if they answered “yes” to one or more of the following questions:

1. Are you limited in any way in any activities because of physical, mental, or emotional problems?

2. Do you now have any health problem that requires you to use special equipment, such as a cane, a wheelchair, a special bed, or a special telephone?

3. Are you blind or do you have serious difficulty seeing, even when wearing glasses?

4. Because of a physical, mental, or emotional condition, do you have serious difficulty concentrating, remembering or making decisions?

5. Do you have serious difficulty walking or climbing stairs?

6. Do you have difficulty dressing or bathing?

7. Because of a physical, mental or emotional condition, do you have difficulty doing errands alone such as visiting a doctor’s office or shopping?

**Race-ethnicity categories** in this report include White, Black, Hispanic, and Asian. When referring to White, Black, or Asian, these categories include only non-Hispanic respondents. All respondents reporting Hispanic ethnicity are included in the Hispanic category regardless of race.

**Healthy People 2020 Objectives*:*** *Healthy People 2020: National Health Promotion and Disease Prevention Objectives* is a national agenda that aims to significantly improve the health of Americans in the decade preceding the year 2020. Healthy People 2020 defined four overarching national goals to: attain high-quality, longer lives free of preventable disease, disability, injury, and premature death; achieve health equity, eliminate disparities, and improve the health of all groups; create social and physical environments that promote good health for all; and promote quality of life, healthy development, and healthy behaviors across all life stages. For each health status indicator in this report that has a corresponding Healthy People 2020 Objective, the year 2020 target is shown in the summary table in the Appendix.

# Limitations

There are some limitations that should be considered when interpreting results from the BRFSS, based on the nature of the survey data:

* The health characteristics estimated from the BRFSS pertain to the adult population, aged 18 years and older, who live in households with either a landline telephone or a cell phone.
* Telephone coverage varies across population subgroups: minorities and those in lower socioeconomic groups typically have lower telephone coverage. No direct method of compensating for non‑telephone coverage is employed by the BRFSS; however, weighted data are used, which may partially correct for any bias caused by non‑telephone coverage. Weighting is designed to make the total number of cases equal to some desired number which, for MA BRFSS data, is the number of people in the state who are aged 18 years and older. In the BRFSS, such weighting serves as a blanket adjustment for non-coverage and non-response and forces the total number of cases to equal population estimates.
* All data collected by the BRFSS are based on self-report from the respondents.  By its nature, self-reported data may be subject to error for several reasons. An individual may have difficulty remembering events that occurred a long time ago or the frequency of certain behaviors. Some respondents may over report socially desirable behaviors, while underreporting behaviors they perceive to be less acceptable. Finally, because the BRFSS surveys a randomly selected sample of Massachusetts adults, these results may differ from another random sample to some extent simply due to chance.
* Persons with the most severe limitations and with certain disabilities are not represented in this sample since individuals living in institutions are not included in the BRFSS.  BRFSS methodology also precludes anyone from assisting respondents in completing the interview if the selected adult had difficulty in participating for any reason, such as an intellectual or developmental disability.