

A Profile of Health Among Massachusetts Adults, 2016

Results from the Behavioral Risk Factor Surveillance
System

HEALTH SURVEY PROGRAM
OFFICE OF DATA MANAGEMENT AND OUTCOMES ASSESSMENT
MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH



September 2017

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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 public 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 addressed 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 opiate use, marijuana use, family planning, sexual violence, and other selected topics.

In 2016, 3,962 landline interviews and 4,453 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 2016 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 2016 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 2016 in a separate table.

All percentages in this report are weighted (see definition on page 64) to represent the total Massachusetts population in 2016.

HIGHLIGHTS

OVERALL HEALTH MEASURES

- Hispanic adults were more likely than White or Black (non-Hispanic) adults to report that their overall health was fair or poor.

HEALTH CARE ACCESS AND UTILIZATION

- Overall, 3.8% of adults ages 18-64 reported not having any health insurance; there has been an average 2.5% per year decrease in those reporting not having health insurance since 2012. Males were more likely than females and Hispanic adults were more likely than White adults to not have health insurance. Those aged 25-34 were more likely than any other age group to be uninsured.
- Males were less likely than females to have a personal health care provider or to have had a routine check-up in the previous year.
- Approximately 3 out of 4 adults reported that they had a dental visit in the previous year. Those with four or more years of college education and those with a household income of \$75,000 or more were more likely than others to have had a dental visit in the previous year.

RISK FACTORS AND PREVENTIVE BEHAVIORS

- The prevalence of cigarette smoking has been declining by an average of 7.5% per year since 2011. In 2016, 13.6% of adults reported current cigarette smoking. Adults with a disability* were nearly twice as likely as those without a disability to be current cigarette smokers.
- Overall, use of e-cigarettes is 4.3%; however, among those 18-24 years of age, 10.1% report using electronic cigarettes.
- The reported prevalence of binge drinking has been declining by an average of 4.5% per year since 2011; in 2016, 17.8% of adults reported binge drinking in the previous 30 days. Prevalence is highest among 18-34 year olds and decreases with age. Males are more likely than females to report binge drinking.
- 60% of adults reported being overweight or obese (BMI \geq 25.0) and 24% reported being obese (BMI \geq 30.0). Obesity was higher among males, among Black and Hispanic adults, among those with a disability, and among those with lower educational attainment.

*see definition of disability on p. 67

CHRONIC HEALTH CONDITIONS

- The crude prevalence of diabetes has been increasing by an average of 3% per year since 2011 and that of pre-diabetes by an average of 4.5% per year. In 2016, 9.3% of adults reported that they had ever been diagnosed with diabetes and an additional 8.4% had been told that they have pre-diabetes.

- Asthma remains more prevalent in Massachusetts than in much of the rest of the nation. In 2016, 10% of adults reported that they currently have asthma (national range = 5.1 – 12.2%). Females were twice as likely as males to report currently having asthma.
- 19% of adults reported that they had ever been diagnosed with a depressive disorder. Females were more likely than males to have been diagnosed with depression. Prevalence of a depression diagnosis decreases with increasing educational attainment and with increasing household income.
- In 2016, 11% of Massachusetts adults reported that they had ever been diagnosed with cancer. Among those 75 years of age and older, the prevalence of cancer survivors comprises 35% of all residents. White adults were more likely than Hispanic adults to have ever been diagnosed with cancer.

CANCER SCREENING

- One in four adults ages 50-74 reported they did not meet the US Preventive Services Task Force (USPSTF) recommendation for colorectal cancer screening.
- 86% of females ages 50-74 reported having a mammogram in the previous two years.
- 84% of females ages 21-65 without a hysterectomy reported having a pap smear in the previous three years; however, among those 21-24 years of age, this was only 59%. Asian females were less likely than White females to report having a pap smear in the previous three years.

OTHER TOPICS

- 46% of adults ages 18-64 reported that they had ever been tested for HIV. Adults 18-64 years of age with a disability were more likely to report ever having been tested for HIV than those without a disability. Black adults and Hispanic adults were more likely than White adults or Asian adults to report ever having had an HIV test.
- 17% of female adults and 5% of male adults reported that they had experienced sexual violence in their lifetime. Adults with a disability (males and females combined) were nearly twice as likely to report experiencing sexual violence as adults without a disability.
- 29% of adults ages 65 and older reported that they had fallen at least once in the prior year and 39% of those reported that they sustained an injury from a fall.
- 12% of adults reported non-medical use of marijuana in the previous year. Males were more likely than females to report use. Younger adults (ages 18-34) were much more likely than older adults to report non-medical use of marijuana.
- One in three adults reported that they had ever been prescribed an opiate and 2.7% reported non-medical use of an opiate in the previous year.

DEMOGRAPHIC CHARACTERISTICS OF RESPONDENTS

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016

	UNWEIGHTED SAMPLE SIZE	WEIGHTED PERCENT
	N	%†
OVERALL	8,415	100.0
GENDER		
MALE	3,952	47.8
FEMALE	4,462	52.2
AGE GROUP		
18–24	563	13.2
25–34	973	17.3
35–44	936	15.3
45–54	1,328	16.6
55–64	1,804	17.0
65–74	1,550	11.7
75 AND OLDER	1,058	8.8
RACE-ETHNICITY*		
WHITE	6,680	76.2
BLACK	467	6.6
HISPANIC	679	10.3
ASIAN	264	6.8
DISABILITY¶		
DISABILITY	2,165	23.9
NO DISABILITY	5,807	76.1
EDUCATION		
< HIGH SCHOOL	499	10.7
HIGH SCHOOL	1,870	25.9
COLLEGE 1–3 YRS	1,949	26.6
COLLEGE 4+ YRS	4,046	36.7
HOUSEHOLD INCOME		
<\$25,000	999	14.5
\$25,000–34,999	555	8.5
\$35,000–49,999	831	12.7
\$50,000–74,999	957	15.2
\$75,000+	2,882	49.1

* White, Black, and Asian race categories refer to non-Hispanic

† See BRFSS methodology in “Terms, Definitions and Methodology Used in this Report”

¶ See p 67 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, 2016				
	FAIR OR POOR HEALTH			
	N	%	95% CI	
OVERALL	8,390	14.1	13.0	- 15.2
GENDER				
MALE	3,941	14.2	12.7	- 15.8
FEMALE	4,448	13.9	12.5	- 15.4
AGE GROUP				
18–24	562	8.2	5.0	- 11.3
25–34	971	9.7	7.3	- 12.1
35–44	934	12.7	9.8	- 15.6
45–54	1,326	13.3	10.8	- 15.8
55–64	1,800	18.0	15.5	- 20.5
65–74	1,544	18.6	15.6	- 21.5
75 AND OLDER	1,054	24.1	19.9	- 28.2
RACE-ETHNICITY*				
WHITE	6,664	12.2	11.1	- 13.3
BLACK	467	16.5	11.5	- 21.6
HISPANIC	675	29.5	25.0	- 33.9
ASIAN	†			
DISABILITY¶				
DISABILITY	2,151	39.5	36.4	- 42.6
NO DISABILITY	5,798	6.2	5.4	- 7.1
EDUCATION				
< HIGH SCHOOL	494	36.0	30.3	- 41.7
HIGH SCHOOL	1,863	17.7	15.4	- 20.0
COLLEGE 1–3 YRS	1,946	12.8	11.0	- 14.6
COLLEGE 4+ YRS	4,038	6.2	5.3	- 7.1
HOUSEHOLD INCOME				
<\$25,000	997	32.6	28.4	- 36.8
\$25,000–34,999	552	18.8	14.2	- 23.5
\$35,000–49,999	831	15.3	11.5	- 19.0
\$50,000–74,999	957	12.8	9.6	- 16.0
\$75,000+	2,877	5.0	4.0	- 6.1

* White, Black, and Asian race categories refer to non-Hispanic
 ¶ See p 67 for definition of disability
 † Insufficient data

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, 2016								
	15+ DAYS OF POOR PHYSICAL HEALTH				15+ DAYS OF POOR MENTAL HEALTH			
	N	%	95% CI		N	%	95% CI	
OVERALL	8,161	9.7	8.8	- 10.7	8,200	11.3	10.3	- 12.3
GENDER								
MALE	3,839	9.3	7.9	- 10.6	3,857	9.9	8.5	- 11.3
FEMALE	4,321	10.0	8.7	- 11.3	4,342	12.4	11.0	- 13.9
AGE GROUP								
18–24	552	4.9	2.1	- 7.8	552	13.1	9.5	- 16.7
25–34	961	5.7	3.8	- 7.6	965	13.3	10.6	- 15.9
35–44	921	9.2	6.7	- 11.8	913	12.4	9.4	- 15.3
45–54	1,294	9.9	7.6	- 12.2	1,291	12.8	10.3	- 15.2
55–64	1,762	14.9	12.6	- 17.2	1,748	10.8	8.8	- 12.8
65–74	1,499	12.1	9.6	- 14.6	1,519	7.8	5.8	- 9.8
75 AND OLDER	984	14.1	10.6	- 17.7	1,019	7.7	4.4	- 11.0
RACE-ETHNICITY*								
WHITE	6,518	9.5	8.5	- 10.5	6,543	10.8	9.7	- 12.0
BLACK	438	11.3	6.2	- 16.4	442	13.5	8.8	- 18.2
HISPANIC	638	13.3	10.0	- 16.6	640	12.3	9.2	- 15.3
ASIAN	†				261	9.4	4.1	- 14.6
DISABILITY [¶]								
DISABILITY	2,022	29.6	26.6	- 32.6	2,061	27.9	24.8	- 30.9
NO DISABILITY	5,713	3.9	3.2	- 4.6	5,716	6.1	5.2	- 7.0
EDUCATION								
< HIGH SCHOOL	447	20.9	15.7	- 26.1	457	19.7	14.4	- 25.0
HIGH SCHOOL	1,798	13.0	10.9	- 15.1	1,800	12.9	10.9	- 14.9
COLLEGE 1–3 YRS	1,894	9.7	8.1	- 11.4	1,909	13.7	11.6	- 15.7
COLLEGE 4+ YRS	3,977	4.5	3.8	- 5.3	3,985	6.1	5.1	- 7.1
HOUSEHOLD INCOME								
<\$25,000	941	21.5	17.8	- 25.3	950	21.3	17.6	- 25.1
\$25,000–34,999	536	13.0	9.0	- 17.0	539	15.0	10.8	- 19.1
\$35,000–49,999	814	9.8	6.5	- 13.1	814	10.5	7.7	- 13.4
\$50,000–74,999	947	8.1	5.7	- 10.6	946	9.1	6.3	- 12.0
\$75,000+	2,851	4.7	3.6	- 5.8	2,853	7.2	5.8	- 8.7

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

† Insufficient data

SECTION 1.3: DISABILITY

In 2016, 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:

Please note: This definition of disability differs from prior years

1. Are you deaf or do you have serious difficulty hearing?
2. Are you blind or do you have serious difficulty seeing, even when wearing glasses?
3. Because of a physical, mental, or emotional condition, do you have serious difficulty concentrating, remembering or making decisions?
4. Do you have serious difficulty walking or climbing stairs?
5. Do you have difficulty dressing or bathing?
6. 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, 2016

	HAVE DISABILITY¶		
	N	%	95% CI
OVERALL	7,972	23.9	22.6 - 25.2
GENDER			
MALE	3,736	22.6	20.8 - 24.4
FEMALE	4,235	25.0	23.1 - 26.8
AGE GROUP			
18–24	522	18.3	14.0 - 22.5
25–34	921	15.3	12.4 - 18.2
35–44	878	16.8	13.5 - 20.0
45–54	1,268	20.3	17.5 - 23.1
55–64	1,725	27.4	24.5 - 30.3
65–74	1,489	32.5	28.9 - 36.0
75 AND OLDER	987	51.5	46.5 - 56.4
RACE-ETHNICITY*			
WHITE	6,352	22.8	21.4 - 24.2
BLACK	427	24.9	19.0 - 30.7
HISPANIC	644	34.3	29.7 - 38.9
ASIAN	248	13.2	7.0 - 19.3
EDUCATION			
< HIGH SCHOOL	474	45.6	39.5 - 51.8
HIGH SCHOOL	1,749	30.8	28.0 - 33.7
COLLEGE 1–3 YRS	1,822	25.7	23.1 - 28.3
COLLEGE 4+ YRS	3,883	11.5	10.3 - 12.7
HOUSEHOLD INCOME			
<\$25,000	949	47.8	43.2 - 52.4
\$25,000–34,999	534	26.7	21.8 - 31.7
\$35,000–49,999	801	24.8	20.7 - 28.8
\$50,000–74,999	916	16.4	13.1 - 19.7
\$75,000+	2,794	11.9	10.2 - 13.7

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 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, 2016				
	NO HEALTH INSURANCE			
	N	%	95% CI	
OVERALL	5,037	3.8	3.1	- 4.6
GENDER				
MALE	2,471	5.3	4.0	- 6.5
FEMALE	2,566	2.5	1.6	- 3.3
AGE GROUP				
18–24	438	4.4	2.3	- 6.5
25–34	758	8.0	5.4	- 10.6
35–44	842	2.9	1.4	- 4.4
45–54	1,270	2.8	1.8	- 3.9
55–64	†			
RACE-ETHNICITY*				
WHITE	3,816	2.9	2.2	- 3.7
BLACK	†			
HISPANIC	537	7.8	4.7	- 10.9
ASIAN	†			
DISABILITY [¶]				
DISABILITY	1,071	5.3	3.2	- 7.3
NO DISABILITY	3,699	3.3	2.5	- 4.1
EDUCATION				
< HIGH SCHOOL	272	11.1	6.4	- 15.9
HIGH SCHOOL	1,111	5.8	4.0	- 7.6
COLLEGE 1–3 YRS	1,198	2.3	1.3	- 3.3
COLLEGE 4+ YRS	2,435	1.6	1.0	- 2.2
HOUSEHOLD INCOME				
<\$25,000	582	8.4	5.0	- 11.7
\$25,000–34,999	†			
\$35,000–49,999	†			
\$50,000–74,999	†			
\$75,000+	2,051	1.4	0.7	- 2.0

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 for definition of disability
† Insufficient data

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, 2016

	HAVE PERSONAL HEALTH CARE PROVIDER				COULD NOT SEE DOCTOR DUE TO COST			
	N	%	95% CI		N	%	95% CI	
OVERALL	8,379	88.9	87.9	- 89.8	8,389	8.8	7.9	- 9.6
GENDER								
MALE	3,931	84.0	82.4	- 85.6	3,938	8.9	7.7	- 10.1
FEMALE	4,447	93.4	92.3	- 94.5	4,450	8.5	7.3	- 9.7
AGE GROUP								
18–24	558	80.8	77.1	- 84.5	562	8.1	5.7	- 10.6
25–34	967	76.0	72.7	- 79.3	971	11.7	9.3	- 14.1
35–44	933	87.3	84.6	- 90.0	935	10.3	7.9	- 12.7
45–54	1,324	92.5	90.7	- 94.2	1,322	10.2	8.0	- 12.5
55–64	1,797	95.7	94.5	- 96.9	1,800	9.4	7.4	- 11.3
65–74	1,547	97.6	96.5	- 98.6	1,545	5.8	3.7	- 7.8
75 AND OLDER	1,053	96.0	93.6	- 98.4	†			
RACE-ETHNICITY*								
WHITE	6,658	91.9	91.0	- 92.8	6,671	6.8	5.9	- 7.6
BLACK	461	87.9	83.5	- 92.2	464	13.9	9.3	- 18.5
HISPANIC	675	77.0	72.9	- 81.1	671	19.4	15.5	- 23.3
ASIAN	260	77.3	71.1	- 83.4	260	6.1	2.8	- 9.3
DISABILITY [¶]								
DISABILITY	2,156	91.4	89.5	- 93.3	2,153	16.2	13.8	- 18.6
NO DISABILITY	5,785	88.1	87.0	- 89.3	5,796	6.4	5.6	- 7.3
EDUCATION								
< HIGH SCHOOL	495	81.3	76.4	- 86.1	496	15.7	11.5	- 20.0
HIGH SCHOOL	1,864	87.2	85.1	- 89.4	1,861	9.6	7.9	- 11.4
COLLEGE 1–3 YRS	1,937	91.5	90.0	- 93.1	1,944	10.0	8.3	- 11.7
COLLEGE 4+ YRS	4,034	90.5	89.4	- 91.6	4,039	5.2	4.3	- 6.1
HOUSEHOLD INCOME								
<\$25,000	992	84.4	81.2	- 87.6	995	15.1	12.1	- 18.1
\$25,000–34,999	551	87.0	83.3	- 90.8	552	12.7	9.1	- 16.3
\$35,000–49,999	829	88.3	85.6	- 91.1	829	10.3	7.4	- 13.2
\$50,000–74,999	955	89.5	86.7	- 92.3	957	8.6	6.0	- 11.1
\$75,000+	2,876	92.6	91.4	- 93.9	2,881	4.9	3.8	- 6.0

* White, Black, and Asian race categories refer to non-Hispanic

[¶] See p 67 for definition of disability

† Insufficient data

TABLE 2.2 (CONTINUED) - HEALTH CARE ACCESS AMONG MASSACHUSETTS ADULTS, 2016

	HAD A ROUTINE CHECKUP IN THE PAST YEAR		
	N	%	95% CI
OVERALL	8,278	78.7	77.4 - 79.9
GENDER			
MALE	3,881	75.1	73.3 - 77.0
FEMALE	4,396	82.0	80.4 - 83.7
AGE GROUP			
18-24	549	73.4	68.9 - 78.0
25-34	955	65.7	62.0 - 69.3
35-44	919	72.5	68.8 - 76.1
45-54	1,310	78.7	75.7 - 81.6
55-64	1,786	83.4	81.1 - 85.8
65-74	1,525	91.8	90.0 - 93.6
75 AND OLDER	1,036	94.5	92.4 - 96.5
RACE-ETHNICITY*			
WHITE	6,587	79.6	78.3 - 81.0
BLACK	454	81.7	76.8 - 86.6
HISPANIC	665	76.3	72.3 - 80.3
ASIAN	259	72.4	65.1 - 79.8
DISABILITY [¶]			
DISABILITY	2,118	82.4	79.9 - 84.9
NO DISABILITY	5,730	77.5	76.0 - 79.0
EDUCATION			
< HIGH SCHOOL	487	76.2	70.6 - 81.7
HIGH SCHOOL	1,837	78.8	76.3 - 81.3
COLLEGE 1-3 YRS	1,908	81.4	79.0 - 83.8
COLLEGE 4+ YRS	3,998	77.6	75.9 - 79.2
HOUSEHOLD INCOME			
<\$25,000	976	77.2	73.4 - 81.0
\$25,000-34,999	548	77.7	73.1 - 82.3
\$35,000-49,999	817	82.3	78.9 - 85.6
\$50,000-74,999	948	75.9	72.1 - 79.7
\$75,000+	2,859	78.5	76.4 - 80.6

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 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.

	DENTAL VISIT IN PAST YEAR					SIX OR MORE TEETH MISSING				
	N	%	95% CI			N	%	95% CI		
OVERALL	8,274	73.7	72.3	-	75.0	8,064	13.6	12.6	-	14.6
GENDER										
MALE	3,873	70.3	68.3	-	72.3	3,793	13.6	12.1	-	15.0
FEMALE	4,400	76.8	74.9	-	78.7	4,270	13.5	12.1	-	14.8
AGE GROUP										
18–24	552	76.1	71.5	-	80.7	†				
25–34	961	65.8	62.0	-	69.5	954	1.9	0.8	-	3.0
35–44	925	75.8	72.2	-	79.3	923	4.4	2.5	-	6.3
45–54	1,312	74.8	71.5	-	78.2	1,297	10.4	8.2	-	12.6
55–64	1,784	78.6	76.0	-	81.1	1,737	20.6	17.9	-	23.2
65–74	1,522	73.1	69.8	-	76.5	1,464	33.3	29.7	-	36.9
75 AND OLDER	1,023	68.4	63.8	-	73.0	950	41.1	36.1	-	46.0
RACE-ETHNICITY*										
WHITE	6,587	76.3	74.9	-	77.8	6,411	13.9	12.8	-	15.0
BLACK	447	66.2	59.7	-	72.8	445	15.1	10.4	-	19.9
HISPANIC	672	67.3	62.8	-	71.8	655	13.2	10.2	-	16.3
ASIAN	257	67.6	59.8	-	75.5	†				
DISABILITY [¶]										
DISABILITY	2,113	62.3	59.2	-	65.4	2,016	30.5	27.6	-	33.4
NO DISABILITY	5,737	77.4	75.9	-	78.9	5,644	8.9	7.9	-	9.8
EDUCATION										
< HIGH SCHOOL	478	51.4	45.3	-	57.6	470	34.6	28.9	-	40.2
HIGH SCHOOL	1,824	67.5	64.6	-	70.4	1,759	19.3	17.1	-	21.5
COLLEGE 1–3 YRS	1,913	76.4	73.9	-	78.9	1,857	12.3	10.6	-	14.1
COLLEGE 4+ YRS	4,015	82.7	81.2	-	84.2	3,937	4.7	4.0	-	5.4
HOUSEHOLD INCOME										
<\$25,000	966	56.7	52.1	-	61.2	945	29.0	25.1	-	32.9
\$25,000–34,999	541	62.1	56.3	-	67.9	526	20.8	16.1	-	25.6
\$35,000–49,999	820	72.3	68.0	-	76.7	784	13.7	10.7	-	16.7
\$50,000–74,999	954	75.4	71.5	-	79.4	931	12.3	9.3	-	15.3
\$75,000+	2,867	84.3	82.5	-	86.2	2,844	5.4	4.3	-	6.5

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 for definition of disability
[†] Insufficient data

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 everyday. 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, 2016

	CURRENT SMOKER				FORMER SMOKER			
	N	%	95% CI		N	%	95% CI	
OVERALL	7,961	13.6	12.6	- 14.7	7,961	26.7	25.4	- 28.1
GENDER								
MALE	3,722	15.5	13.9	- 17.1	3,722	28.1	26.2	- 30.1
FEMALE	4,238	11.9	10.5	- 13.3	4,238	25.5	23.7	- 27.3
AGE GROUP								
18–24	525	10.6	7.3	- 13.8	525	7.6	4.4	- 10.9
25–34	922	16.8	13.8	- 19.8	922	12.8	10.2	- 15.5
35–44	876	14.5	11.3	- 17.7	876	25.3	21.7	- 29.0
45–54	1,262	16.6	14.0	- 19.3	1,262	24.5	21.3	- 27.8
55–64	1,722	16.4	14.0	- 18.8	1,722	34.7	31.6	- 37.7
65–74	1,484	9.5	7.4	- 11.5	1,484	45.4	41.7	- 49.0
75 AND OLDER	991	6.1	3.4	- 8.8	991	48.5	43.6	- 53.5
RACE-ETHNICITY*								
WHITE	6,339	14.3	13.1	- 15.6	6,339	30.3	28.8	- 31.8
BLACK	426	11.7	8.0	- 15.5	426	15.2	9.7	- 20.8
HISPANIC	645	11.9	8.7	- 15.1	645	18.2	14.5	- 21.9
ASIAN	250	6.6	2.9	- 10.4	250	9.5	4.5	- 14.4
DISABILITY [¶]								
DISABILITY	2,132	21.2	18.6	- 23.8	2,132	35.0	32.0	- 38.0
NO DISABILITY	5,740	11.3	10.1	- 12.4	5,740	24.2	22.7	- 25.6
EDUCATION								
< HIGH SCHOOL	470	22.4	17.2	- 27.6	470	31.7	25.7	- 37.6
HIGH SCHOOL	1,750	20.3	17.9	- 22.8	1,750	29.3	26.5	- 32.1
COLLEGE 1–3 YRS	1,820	14.9	12.8	- 17.0	1,820	28.3	25.7	- 31.0
COLLEGE 4+ YRS	3,877	5.7	4.9	- 6.6	3,877	22.5	21.0	- 24.1
HOUSEHOLD INCOME								
<\$25,000	941	22.6	18.8	- 26.4	941	26.1	21.8	- 30.4
\$25,000–34,999	532	16.0	11.9	- 20.1	532	29.6	24.2	- 35.1
\$35,000–49,999	802	14.1	10.8	- 17.5	802	30.7	26.3	- 35.0
\$50,000–74,999	916	16.7	13.1	- 20.4	916	29.4	25.2	- 33.5
\$75,000+	2,790	8.6	7.1	- 10.1	2,790	26.0	23.9	- 28.1

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

TABLE 3.1.2 - SMOKELESS TOBACCO USE AMONG MASSACHUSETTS ADULTS, 2016

	USE SMOKELESS TOBACCO		
	N	%	95% CI
OVERALL	7,995	2.0	1.5 - 2.4
GENDER			
MALE	3,737	3.1	2.3 - 3.9
FEMALE	4,257	1.0	0.5 - 1.4
AGE GROUP			
18-24	525	4.5	2.1 - 6.8
25-34	919	2.6	1.5 - 3.7
35-44	879	2.5	1.3 - 3.7
45-54	1,268	1.4	0.6 - 2.1
55-64	1,724	1.5	0.7 - 2.2
65-74	†		
75 AND OLDER	†		
RACE-ETHNICITY*			
WHITE	6,373	1.7	1.3 - 2.2
BLACK	†		
HISPANIC	†		
ASIAN	†		
DISABILITY[¶]			
DISABILITY	2,142	2.6	1.5 - 3.6
NO DISABILITY	5,761	1.8	1.3 - 2.3
EDUCATION			
< HIGH SCHOOL	†		
HIGH SCHOOL	1,753	2.6	1.6 - 3.5
COLLEGE 1-3 YRS	1,832	1.6	0.7 - 2.4
COLLEGE 4+ YRS	3,898	1.7	1.1 - 2.3
HOUSEHOLD INCOME			
<\$25,000	945	2.4	1.0 - 3.7
\$25,000-34,999	†		
\$35,000-49,999	†		
\$50,000-74,999	†		
\$75,000+	2,798	1.7	0.9 - 2.4

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

† Insufficient data

Respondents were asked if they ever tried electronic cigarettes, and if so, if they currently use electronic cigarettes every day, some days, or not at all. Presented is the percentage of adults who reported using electronic cigarettes either every day or some days.

TABLE 3.1.3 – ELECTRONIC CIGARETTE USE AMONG MASSACHUSETTS ADULTS, 2016

	USE E-CIGARETTES		
	N	%	95% CI
OVERALL	7,987	4.3	3.6 - 5.1
GENDER			
MALE	3,739	5.8	4.6 - 7.0
FEMALE	4,247	2.9	2.1 - 3.7
AGE GROUP			
18–24	524	10.1	6.3 - 13.8
25–34	920	6.8	4.9 - 8.7
35–44	879	4.3	2.6 - 6.1
45–54	1,266	3.6	2.3 - 4.9
55–64	1,722	2.9	1.8 - 3.9
65–74	†		
75 AND OLDER	†		
RACE-ETHNICITY*			
WHITE	6,360	4.3	3.5 - 5.1
BLACK	†		
HISPANIC	645	3.9	2.0 - 5.8
ASIAN	†		
DISABILITY [¶]			
DISABILITY	2,139	7.5	5.6 - 9.5
NO DISABILITY	5,757	3.4	2.7 - 4.1
EDUCATION			
< HIGH SCHOOL	466	8.6	4.5 - 12.7
HIGH SCHOOL	1,755	5.8	4.3 - 7.4
COLLEGE 1–3 YRS	1,831	4.9	3.5 - 6.2
COLLEGE 4+ YRS	3,889	1.7	1.2 - 2.2
HOUSEHOLD INCOME			
<\$25,000	943	6.5	3.9 - 9.1
\$25,000–34,999	534	7.6	3.7 - 11.5
\$35,000–49,999	803	3.5	2.0 - 5.1
\$50,000–74,999	921	4.9	2.8 - 7.0
\$75,000+	2,794	2.7	1.8 - 3.6

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

† Insufficient data

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, 2016			
	QUIT ATTEMPT		
	N	%	95% CI
OVERALL	1,040	59.9	55.6 - 64.1
GENDER			
MALE	544	58.1	52.3 - 63.9
FEMALE	496	61.9	55.9 - 67.9
AGE GROUP			
18–24	57	74.4	60.0 - 88.7
25–34	150	64.9	55.1 - 74.6
35–44	122	55.7	43.4 - 67.9
45–54	212	59.4	50.8 - 68.0
55–64	282	55.8	47.7 - 63.9
65–74	159	52.2	40.7 - 63.6
75 AND OLDER	†		
RACE-ETHNICITY*			
WHITE	832	59.9	55.2 - 64.6
BLACK	67	63.8	47.9 - 79.6
HISPANIC	77	51.8	37.2 - 66.4
ASIAN	†		
DISABILITY¶			
DISABILITY	414	60.4	53.5 - 67.3
NO DISABILITY	614	59.1	53.7 - 64.5
EDUCATION			
< HIGH SCHOOL	101	53.3	39.9 - 66.6
HIGH SCHOOL	363	58.2	51.7 - 64.7
COLLEGE 1–3 YRS	312	65.7	58.4 - 73.1
COLLEGE 4+ YRS	262	59.7	51.8 - 67.5
HOUSEHOLD INCOME			
<\$25,000	217	64.9	56.1 - 73.7
\$25,000–34,999	82	71.0	59.1 - 82.9
\$35,000–49,999	109	54.4	41.4 - 67.4
\$50,000–74,999	134	52.5	40.4 - 64.6
\$75,000+	217	55.9	46.3 - 65.4

* White, Black, and Asian race categories refer to non-Hispanic
 ¶ See p 67 for definition of disability
 † Insufficient data

SECTION 3.3: ENVIRONMENTAL TOBACCO SMOKE

Respondents were asked about rules regarding smoking in their households; whether smoking was permitted anywhere, smoking was allowed in some places or at some times, or smoking was not allowed anywhere. Presented here is the percentage of adults reporting that no smoking was permitted anywhere in their household.

TABLE 3.3 – ENVIRONMENTAL TOBACCO AMONG MASSACHUSETTS ADULTS, 2016			
	NO SMOKING ALLOWED IN HOUSEHOLD		
	N	%	95% CI
OVERALL	2,857	81.3	79.3 - 83.4
GENDER			
MALE	1,295	79.2	76.1 - 82.2
FEMALE	1,562	83.3	80.6 - 86.0
AGE GROUP			
18–24	151	74.7	66.4 - 83.0
25–34	278	77.1	71.2 - 83.0
35–44	313	89.9	86.0 - 93.9
45–54	478	83.1	78.9 - 87.2
55–64	634	81.2	77.2 - 85.3
65–74	568	81.3	76.7 - 85.8
75 AND OLDER	380	82.4	75.7 - 89.2
RACE-ETHNICITY*			
WHITE	2,295	80.9	78.6 - 83.3
BLACK	157	74.5	64.3 - 84.6
HISPANIC	222	86.0	80.0 - 92.1
ASIAN	82	89.8	83.3 - 96.4
DISABILITY[¶]			
DISABILITY	821	76.7	72.4 - 81.0
NO DISABILITY	2,003	83.2	80.9 - 85.4
EDUCATION			
< HIGH SCHOOL	170	72.8	63.6 - 82.0
HIGH SCHOOL	649	74.8	70.2 - 79.5
COLLEGE 1–3 YRS	644	78.3	74.0 - 82.6
COLLEGE 4+ YRS	1,384	89.8	87.9 - 91.7
HOUSEHOLD INCOME			
<\$25,000	345	71.5	64.5 - 78.5
\$25,000–34,999	211	70.5	61.4 - 79.6
\$35,000–49,999	278	82.8	77.1 - 88.5
\$50,000–74,999	351	86.1	81.5 - 90.7
\$75,000+	1,004	89.9	87.5 - 92.4

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 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, 2016

	BINGE DRINKING				HEAVY DRINKING			
	N	%	95% CI		N	%	95% CI	
OVERALL	7,760	17.8	16.6	- 19.0	7,732	7.5	6.7	- 8.3
GENDER								
MALE	3,609	22.3	20.5	- 24.2	3,590	8.0	6.7	- 9.2
FEMALE	4,150	13.8	12.2	- 15.3	4,141	7.1	6.0	- 8.2
AGE GROUP								
18–24	509	30.5	25.6	- 35.3	502	10.0	6.7	- 13.2
25–34	887	29.3	25.7	- 32.8	883	8.8	6.5	- 11.2
35–44	859	23.1	19.6	- 26.7	862	7.5	5.3	- 9.7
45–54	1,232	15.9	13.3	- 18.6	1,227	7.6	5.8	- 9.5
55–64	1,670	10.3	8.4	- 12.3	1,667	7.0	5.4	- 8.6
65–74	1,465	6.2	4.4	- 8.1	1,456	6.8	4.8	- 8.8
75 AND OLDER	969	3.8	2.1	- 5.4	966	4.2	2.3	- 6.0
RACE-ETHNICITY*								
WHITE	6,200	19.0	17.7	- 20.4	6,180	8.3	7.4	- 9.3
BLACK	411	14.0	9.5	- 18.5	†			
HISPANIC	619	14.8	11.3	- 18.3	617	5.9	3.5	- 8.2
ASIAN	239	14.3	8.8	- 19.8	†			
DISABILITY¶								
DISABILITY	2,079	14.6	12.2	- 16.9	2,070	8.2	6.3	- 10.1
NO DISABILITY	5,597	18.9	17.5	- 20.3	5,577	7.4	6.5	- 8.3
EDUCATION								
< HIGH SCHOOL	442	12.6	8.1	- 17.1	439	7.0	3.6	- 10.5
HIGH SCHOOL	1,695	16.7	14.2	- 19.3	1,697	7.3	5.6	- 8.9
COLLEGE 1–3 YRS	1,777	20.0	17.4	- 22.5	1,766	8.4	6.6	- 10.3
COLLEGE 4+ YRS	3,808	18.6	17.0	- 20.2	3,791	7.3	6.2	- 8.3
HOUSEHOLD INCOME								
<\$25,000	915	13.1	9.8	- 16.5	914	4.7	2.9	- 6.6
\$25,000–34,999	523	10.9	7.4	- 14.4	515	4.4	2.4	- 6.5
\$35,000–49,999	781	18.9	15.4	- 22.5	778	11.0	8.0	- 13.9
\$50,000–74,999	901	21.5	17.4	- 25.6	902	8.8	6.0	- 11.6
\$75,000+	2,747	21.3	19.3	- 23.4	2,737	8.8	7.4	- 10.3

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

† Insufficient data

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, 2016

	OVERWEIGHT (BMI ≥ 25.0)				OBESE (BMI ≥ 30.0)			
	N	%	95% CI		N	%	95% CI	
OVERALL	7,480	60.2	58.7	- 61.8	7,480	23.6	22.2	- 24.9
GENDER								
MALE	3,704	68.5	66.4	- 70.5	3,704	25.9	24.0	- 27.9
FEMALE	3,775	51.8	49.5	- 54.1	3,775	21.1	19.3	- 22.9
AGE GROUP								
18–24	499	40.5	35.0	- 46.1	499	14.5	10.1	- 18.8
25–34	839	49.6	45.4	- 53.7	839	19.4	16.3	- 22.6
35–44	843	64.5	60.4	- 68.6	843	24.1	20.4	- 27.7
45–54	1,203	67.7	64.3	- 71.2	1,203	27.4	24.2	- 30.7
55–64	1,602	69.0	66.0	- 72.0	1,602	28.6	25.5	- 31.7
65–74	1,422	68.4	65.0	- 71.9	1,422	30.7	27.2	- 34.1
75 AND OLDER	979	60.2	55.4	- 65.0	979	17.7	14.0	- 21.4
RACE-ETHNICITY*								
WHITE	6,002	60.0	58.2	- 61.7	6,002	22.7	21.3	- 24.1
BLACK	397	66.6	59.9	- 73.4	397	35.6	28.7	- 42.5
HISPANIC	594	66.1	61.2	- 70.9	594	28.9	24.4	- 33.4
ASIAN	232	41.9	33.4	- 50.5	†			
DISABILITY [¶]								
DISABILITY	2,003	69.3	66.3	- 72.3	2,003	34.3	31.2	- 37.4
NO DISABILITY	5,232	57.2	55.4	- 59.1	5,232	20.7	19.2	- 22.2
EDUCATION								
< HIGH SCHOOL	448	67.4	61.2	- 73.5	448	32.5	26.6	- 38.4
HIGH SCHOOL	1,668	63.8	60.6	- 67.0	1,668	27.7	24.9	- 30.6
COLLEGE 1–3 YRS	1,705	60.8	57.6	- 63.9	1,705	23.7	21.1	- 26.3
COLLEGE 4+ YRS	3,629	55.6	53.5	- 57.6	3,629	18.0	16.4	- 19.5
HOUSEHOLD INCOME								
<\$25,000	923	62.5	57.9	- 67.1	923	31.2	26.9	- 35.6
\$25,000–34,999	508	58.9	52.6	- 65.3	508	26.3	21.1	- 31.6
\$35,000–49,999	754	63.0	58.5	- 67.5	754	27.7	23.4	- 32.1
\$50,000–74,999	888	63.3	58.8	- 67.9	888	25.7	21.7	- 29.8
\$75,000+	2,710	60.8	58.3	- 63.3	2,710	20.1	18.1	- 22.1

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

† Insufficient data

SECTION 3.6: PHYSICAL ACTIVITY

In 2016, 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, 2016			
	PHYSICAL ACTIVITY IN THE PAST MONTH		
	N	%	95% CI
OVERALL	8,393	80.0	78.8 - 81.3
GENDER			
MALE	3,936	81.5	79.8 - 83.2
FEMALE	4,456	78.7	76.9 - 80.5
AGE GROUP			
18–24	562	86.3	82.5 - 90.0
25–34	972	82.6	79.4 - 85.9
35–44	932	83.0	79.9 - 86.1
45–54	1,325	82.1	79.0 - 85.1
55–64	1,802	77.3	74.6 - 80.0
65–74	1,547	74.4	71.2 - 77.6
75 AND OLDER	1,051	68.4	63.7 - 73.1
RACE-ETHNICITY*			
WHITE	6,665	82.4	81.1 - 83.6
BLACK	464	77.3	71.7 - 83.0
HISPANIC	678	68.8	64.3 - 73.3
ASIAN	264	76.6	68.8 - 84.5
DISABILITY[¶]			
DISABILITY	2,153	65.1	62.1 - 68.1
NO DISABILITY	5,799	84.8	83.4 - 86.1
EDUCATION			
< HIGH SCHOOL	497	62.4	56.5 - 68.3
HIGH SCHOOL	1,867	72.4	69.7 - 75.0
COLLEGE 1–3 YRS	1,940	80.6	78.3 - 83.0
COLLEGE 4+ YRS	4,038	90.4	89.2 - 91.6
HOUSEHOLD INCOME			
<\$25,000	997	69.4	65.2 - 73.5
\$25,000–34,999	555	70.1	64.4 - 75.8
\$35,000–49,999	829	78.3	74.4 - 82.1
\$50,000–74,999	956	84.0	80.9 - 87.0
\$75,000+	2,878	89.4	87.8 - 91.1

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 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, 2016										
	FLU VACCINE IN PAST YEAR, AGES 18-49					FLU VACCINE IN PAST YEAR, AGES 50-64				
	N	%	95% CI			N	%	95% CI		
OVERALL	2,834	34.6	32.4	-	36.8	2,354	45.1	42.3	-	47.9
GENDER										
MALE	1,440	28.1	25.3	-	30.9	1,107	42.6	38.7	-	46.5
FEMALE	1,393	40.9	37.6	-	44.3	1,247	47.5	43.5	-	51.5
AGE GROUP										
18-24	508	30.7	25.7	-	35.8					
25-34	899	35.6	31.8	-	39.4					
35-44	860	35.3	31.3	-	39.4					
45-49	567	37.6	32.7	-	42.6					
50-64						2,354	45.1	42.3	-	47.9
RACE-ETHNICITY*										
WHITE	1,982	36.3	33.6	-	39.0	1,959	44.1	41.2	-	47.0
BLACK	185	34.6	25.6	-	43.6	113	46.0	31.1	-	61.0
HISPANIC	369	30.6	24.9	-	36.2	172	46.0	36.4	-	55.6
ASIAN	187	32.2	24.1	-	40.2	†				
DISABILITY¶										
DISABILITY	489	36.3	30.5	-	42.1	622	45.7	40.2	-	51.2
NO DISABILITY	2,322	34.4	32.0	-	36.9	1,709	45.0	41.7	-	48.2
EDUCATION										
< HIGH SCHOOL	136	36.6	26.7	-	46.5	124	50.1	37.7	-	62.4
HIGH SCHOOL	539	25.8	21.3	-	30.3	529	35.6	30.1	-	41.0
COLLEGE 1-3 YRS	657	30.6	26.3	-	34.9	545	44.3	38.5	-	50.1
COLLEGE 4+ YRS	1,486	42.5	39.5	-	45.6	1,151	51.0	47.5	-	54.5
HOUSEHOLD INCOME										
<\$25,000	311	29.6	23.0	-	36.1	280	44.5	35.7	-	53.3
\$25,000-34,999	166	33.7	24.5	-	42.9	133	46.8	33.2	-	60.3
\$35,000-49,999	280	34.5	27.8	-	41.2	186	41.6	31.6	-	51.7
\$50,000-74,999	331	31.2	24.5	-	37.8	285	41.8	33.6	-	50.0
\$75,000+	1,184	39.8	36.3	-	43.3	991	48.1	44.0	-	52.2

* White, Black, and Asian race categories refer to non-Hispanic
 ¶ See p 67 for definition of disability
 † Insufficient data

TABLE 4.1.2 – FLU VACCINE AMONG MASSACHUSETTS ADULTS, AGES 65 YEARS AND OLDER, 2016

	FLU VACCINE IN PAST YEAR, AGES 65+		
	N	%	95% CI
OVERALL	2,458	57.1	54.1 - 60.0
GENDER			
MALE	1,030	55.2	50.7 - 59.7
FEMALE	1,428	58.5	54.6 - 62.4
AGE GROUP			
65–74	1,475	55.2	51.6 - 58.9
75 AND OLDER	983	59.5	54.7 - 64.3
RACE-ETHNICITY*			
WHITE	2,175	58.0	54.9 - 61.1
BLACK	107	43.3	27.0 - 59.5
HISPANIC	82	62.9	46.9 - 78.9
ASIAN	†		
DISABILITY[¶]			
DISABILITY	955	56.5	51.5 - 61.5
NO DISABILITY	1,467	57.9	54.3 - 61.6
EDUCATION			
< HIGH SCHOOL	182	63.5	53.1 - 73.8
HIGH SCHOOL	618	50.7	45.0 - 56.5
COLLEGE 1–3 YRS	562	56.2	50.4 - 62.0
COLLEGE 4+ YRS	1,087	61.3	57.6 - 65.0
HOUSEHOLD INCOME			
<\$25,000	316	60.0	51.4 - 68.6
\$25,000–34,999	222	46.2	36.0 - 56.3
\$35,000–49,999	314	54.0	45.7 - 62.2
\$50,000–74,999	282	59.4	50.8 - 68.1
\$75,000+	537	61.4	55.9 - 66.8

* White, Black, and Asian race categories refer to non-Hispanic

† Insufficient data

¶ See p 67 for definition of disability

TABLE 4.1.3 – PNEUMONIA VACCINE AMONG MASSACHUSETTS ADULTS, AGES 65 YEARS AND OLDER, 2016

	EVER HAD PNEUMONIA VACCINE		
	N	%	95% CI
OVERALL	2,357	76.4	73.8 - 79.1
GENDER			
MALE	971	73.6	69.4 - 77.8
FEMALE	1,386	78.6	75.1 - 82.0
AGE GROUP			
65–74	1,408	71.4	67.9 - 74.9
75 AND OLDER	949	83.1	79.0 - 87.2
RACE-ETHNICITY*			
WHITE	2,094	78.6	76.0 - 81.3
BLACK	101	61.2	44.3 - 78.1
HISPANIC	74	57.8	40.3 - 75.4
ASIAN	†		
DISABILITY [¶]			
DISABILITY	919	77.0	72.4 - 81.5
NO DISABILITY	1,404	76.0	72.7 - 79.3
EDUCATION			
< HIGH SCHOOL	174	65.0	54.5 - 75.6
HIGH SCHOOL	596	79.0	74.1 - 84.0
COLLEGE 1–3 YRS	537	79.6	74.8 - 84.4
COLLEGE 4+ YRS	1,042	77.5	74.2 - 80.7
HOUSEHOLD INCOME			
<\$25,000	306	69.9	61.8 - 78.0
\$25,000–34,999	216	84.0	76.9 - 91.2
\$35,000–49,999	305	82.9	76.0 - 89.7
\$50,000–74,999	272	73.8	65.0 - 82.7
\$75,000+	510	77.4	72.8 - 81.9

* White, Black, and Asian race categories refer to non-Hispanic

† Insufficient data

¶ See p 67 for definition of disability

SECTION 4.2: HUMAN PAPILLOMA VIRUS (HPV) VACCINATION

All respondents between the ages of 18-49 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, 2016

	EVER HAD HPV VACCINE				COMPLETED SERIES **			
	N	%	95% CI		N	%	95% CI	
OVERALL	221	54.4	46.6	- 62.3	109	84.0	77.0	- 91.0
AGE GROUP								
18–24	77	60.4	48.0	- 72.9	†			
25–34	144	49.5	39.8	- 59.1	64	85.4	76.7	- 94.1
RACE-ETHNICITY*								
WHITE	139	63.8	54.5	- 73.2	80	86.2	78.6	- 93.8
BLACK	†				†			
HISPANIC	†				†			
ASIAN	†				†			
DISABILITY¶								
DISABILITY	†				†			
NO DISABILITY	173	57.1	48.3	- 65.8	88	83.1	75.2	- 91.0
EDUCATION								
< HIGH SCHOOL	†				†			
HIGH SCHOOL	†				†			
COLLEGE 1–3 YRS	77	51.6	39.0	- 64.2	†			
COLLEGE 4+ YRS	104	68.4	58.6	- 78.2	61	87.0	78.6	- 95.4
HOUSEHOLD INCOME								
<\$25,000	†				†			
\$25,000–34,999	†				†			
\$35,000–49,999	†				†			
\$50,000–74,999	†				†			
\$75,000+	63	79.3	68.9	- 89.7	†			

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

** Analysis conducted among those who reported ever having had vaccine

† Insufficient data

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.

TABLE 4.3 – HEPATITIS B VACCINE AMONG MASSACHUSETTS ADULTS, 2016			
	RECEIVED 3 SHOTS HBV VACCINE		
	N	%	95% CI
OVERALL	2,457	36.8	34.1 - 39.5
GENDER			
MALE	1,115	30.6	26.9 - 34.3
FEMALE	1,342	42.4	38.6 - 46.2
AGE GROUP			
18–24	113	54.9	44.2 - 65.5
25–34	210	54.2	46.2 - 62.3
35–44	262	48.8	41.0 - 56.6
45–54	412	34.9	29.2 - 40.7
55–64	567	28.8	24.1 - 33.6
65–74	510	22.7	17.6 - 27.9
75 AND OLDER	337	6.4	3.2 - 9.7
RACE-ETHNICITY*			
WHITE	1,986	34.7	31.8 - 37.6
BLACK	130	42.6	30.4 - 54.8
HISPANIC	183	41.4	32.0 - 50.7
ASIAN	62	55.8	40.6 - 70.9
DISABILITY[¶]			
DISABILITY	720	28.3	23.1 - 33.5
NO DISABILITY	1,709	40.0	36.8 - 43.1
EDUCATION			
< HIGH SCHOOL	145	23.5	12.9 - 34.1
HIGH SCHOOL	558	28.9	23.5 - 34.3
COLLEGE 1–3 YRS	574	38.7	33.0 - 44.3
COLLEGE 4+ YRS	1,170	44.2	40.6 - 47.8
HOUSEHOLD INCOME			
<\$25,000	309	30.4	22.7 - 38.1
\$25,000–34,999	184	34.7	24.6 - 44.7
\$35,000–49,999	235	38.3	29.9 - 46.6
\$50,000–74,999	307	38.2	30.1 - 46.3
\$75,000+	851	42.1	37.8 - 46.4

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 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 60 or older who had ever received the shingles vaccine.

TABLE 4.4 – SHINGLES VACCINE AMONG MASSACHUSETTS ADULTS, AGE 60+, 2016			
	EVER HAD SHINGLES VACCINE		
	N	%	95% CI
OVERALL	1,452	43.8	40.3 - 47.4
GENDER			
MALE	595	44.6	39.3 - 49.9
FEMALE	857	43.3	38.5 - 48.0
AGE GROUP			
60-69	735	40.0	35.3 - 44.7
70-79	440	51.9	45.0 - 58.8
80 AND OLDER	277	42.9	34.5 - 51.3
RACE-ETHNICITY*			
WHITE	1,288	46.5	42.7 - 50.2
BLACK	†		
HISPANIC	66	25.4	10.6 - 40.3
ASIAN	†		
DISABILITY[¶]			
DISABILITY	548	39.6	33.8 - 45.5
NO DISABILITY	881	46.9	42.5 - 51.4
EDUCATION			
< HIGH SCHOOL	93	18.4	7.6 - 29.1
HIGH SCHOOL	345	42.4	35.1 - 49.7
COLLEGE 1–3 YRS	348	41.3	34.2 - 48.5
COLLEGE 4+ YRS	663	54.0	49.2 - 58.8
HOUSEHOLD INCOME			
<\$25,000	190	21.9	13.8 - 30.0
\$25,000–34,999	114	51.3	36.8 - 65.8
\$35,000–49,999	169	44.5	34.4 - 54.5
\$50,000–74,999	199	43.1	33.7 - 52.5
\$75,000+	380	54.3	47.8 - 60.9

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 for definition of disability
† Insufficient data

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.

TABLE 5.1 – DIABETES AMONG MASSACHUSETTS ADULTS, 2016

	PRE-DIABETES				DIABETES			
	N	%	95% CI		N	%	95% CI	
OVERALL	3,280	8.4	7.1	- 9.6	8,395	9.3	8.4	- 10.1
GENDER								
MALE	1,472	8.0	6.4	- 9.6	3,941	9.7	8.5	- 10.9
FEMALE	1,808	8.7	6.8	- 10.6	4,453	8.8	7.6	- 9.9
AGE GROUP								
18–24	†				†			
25–34	354	4.2	1.8	- 6.5	†			
35–44	†				935	3.8	2.3	- 5.4
45–54	548	8.5	5.4	- 11.7	1,325	8.0	5.9	- 10.1
55–64	713	13.8	10.3	- 17.2	1,803	14.6	12.5	- 16.8
65–74	573	12.7	8.9	- 16.4	1,546	21.9	18.8	- 25.0
75 AND OLDER	417	11.0	7.2	- 14.9	1,056	20.2	16.3	- 24.2
RACE-ETHNICITY*								
WHITE	2,655	6.9	5.7	- 8.1	6,668	8.8	8.0	- 9.7
BLACK	†				465	14.0	9.2	- 18.8
HISPANIC	236	12.4	7.7	- 17.2	677	9.8	7.2	- 12.3
ASIAN	†				†			
DISABILITY [¶]								
DISABILITY	793	14.9	11.0	- 18.7	2,158	18.8	16.4	- 21.1
NO DISABILITY	2,320	6.6	5.3	- 7.8	5,797	6.3	5.5	- 7.1
EDUCATION								
< HIGH SCHOOL	171	11.8	5.2	- 18.4	496	18.2	13.8	- 22.5
HIGH SCHOOL	738	9.1	6.6	- 11.7	1,865	10.7	9.0	- 12.4
COLLEGE 1–3 YRS	745	10.5	7.7	- 13.3	1,946	9.0	7.4	- 10.5
COLLEGE 4+ YRS	1,608	5.7	4.4	- 6.9	4,039	6.0	5.1	- 6.8
HOUSEHOLD INCOME								
<\$25,000	360	13.7	9.0	- 18.5	994	15.2	12.3	- 18.2
\$25,000–34,999	221	6.0	2.8	- 9.1	554	10.2	7.1	- 13.2
\$35,000–49,999	303	10.6	6.1	- 15.1	830	12.6	9.2	- 16.0
\$50,000–74,999	388	6.9	3.5	- 10.2	956	9.9	7.4	- 12.5
\$75,000+	1,171	6.4	4.5	- 8.2	2,881	5.5	4.4	- 6.6

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

† Insufficient data

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, 2016										
	EVER HAD ASTHMA					CURRENTLY HAVE ASTHMA				
	N	%	95% CI			N	%	95% CI		
OVERALL	8,385	15.3	14.2	-	16.4	8,356	10.3	9.4	-	11.2
GENDER										
MALE	3,932	11.8	10.5	-	13.2	3,921	6.3	5.3	-	7.3
FEMALE	4,452	18.4	16.8	-	20.1	4,434	13.9	12.5	-	15.4
AGE GROUP										
18–24	561	19.1	15.1	-	23.0	558	11.8	8.6	-	15.0
25–34	970	15.8	13.1	-	18.4	967	9.5	7.3	-	11.6
35–44	932	16.3	13.3	-	19.4	931	10.2	7.8	-	12.6
45–54	1,327	15.7	12.9	-	18.5	1,324	11.3	8.8	-	13.8
55–64	1,796	14.1	11.9	-	16.2	1,784	10.2	8.3	-	12.1
65–74	1,546	13.0	10.5	-	15.4	1,542	10.0	7.9	-	12.1
75 AND OLDER	1,054	12.2	8.8	-	15.6	1,052	9.5	6.3	-	12.8
RACE-ETHNICITY*										
WHITE	6,655	14.8	13.6	-	15.9	6,630	10.0	9.0	-	10.9
BLACK	466	20.6	14.7	-	26.5	464	15.7	10.1	-	21.3
HISPANIC	678	16.4	13.1	-	19.7	678	11.2	8.4	-	14.0
ASIAN	264	13.4	7.5	-	19.3	†				
DISABILITY¶										
DISABILITY	2,150	22.9	20.3	-	25.6	2,142	17.0	14.6	-	19.3
NO DISABILITY	5,796	12.6	11.4	-	13.8	5,777	8.2	7.2	-	9.2
EDUCATION										
< HIGH SCHOOL	496	18.6	13.9	-	23.3	493	14.9	10.4	-	19.4
HIGH SCHOOL	1,865	14.4	12.2	-	16.5	1,856	10.0	8.1	-	11.8
COLLEGE 1–3 YRS	1,938	15.9	13.7	-	18.1	1,934	9.8	8.1	-	11.5
COLLEGE 4+ YRS	4,037	14.6	13.2	-	16.0	4,024	9.6	8.4	-	10.7
HOUSEHOLD INCOME										
<\$25,000	996	18.2	14.8	-	21.6	990	12.6	9.7	-	15.5
\$25,000–34,999	552	16.5	11.5	-	21.4	550	12.0	7.3	-	16.7
\$35,000–49,999	830	17.4	13.4	-	21.5	828	10.2	7.0	-	13.4
\$50,000–74,999	954	14.2	11.1	-	17.3	952	9.5	7.0	-	12.0
\$75,000+	2,876	14.5	12.8	-	16.3	2,869	9.3	7.8	-	10.7

* White, Black, and Asian race categories refer to non-Hispanic
 ¶ See p 67 for definition of disability
 † Insufficient data

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, 2016			
	EVER DIAGNOSED WITH COPD		
	N	%	95% CI
OVERALL	8,358	5.4	4.7 - 6.0
GENDER			
MALE	3,924	4.5	3.6 - 5.3
FEMALE	4,433	6.2	5.2 - 7.3
AGE GROUP			
18–24	†		
25–34	†		
35–44	933	2.9	1.6 - 4.2
45–54	1,321	5.1	3.5 - 6.6
55–64	1,794	7.8	6.0 - 9.5
65–74	1,537	9.8	7.4 - 12.1
75 AND OLDER	1,044	12.3	8.9 - 15.6
RACE-ETHNICITY*			
WHITE	6,639	5.7	5.0 - 6.5
BLACK	†		
HISPANIC	673	4.8	3.0 - 6.6
ASIAN	†		
DISABILITY[¶]			
DISABILITY	2,133	14.6	12.3 - 16.9
NO DISABILITY	5,787	2.6	2.1 - 3.1
EDUCATION			
< HIGH SCHOOL	486	11.5	7.7 - 15.3
HIGH SCHOOL	1,856	7.9	6.4 - 9.3
COLLEGE 1–3 YRS	1,938	5.0	3.9 - 6.2
COLLEGE 4+ YRS	4,029	2.3	1.8 - 2.8
HOUSEHOLD INCOME			
<\$25,000	986	10.9	8.2 - 13.6
\$25,000–34,999	550	6.1	3.6 - 8.6
\$35,000–49,999	827	5.8	4.0 - 7.7
\$50,000–74,999	957	4.9	3.1 - 6.7
\$75,000+	2,875	2.6	1.7 - 3.4

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 for definition of disability
† Insufficient data

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, 2016

	EVER DIAGNOSED WITH MYOCARDIAL INFARCTION				EVER DIAGNOSED WITH ANGINA OR CORONARY HEART DISEASE			
	N	%	95% CI		N	%	95% CI	
OVERALL	6,633	5.7	4.9	- 6.5	6,614	5.5	4.8	- 6.3
GENDER								
MALE	3,037	7.6	6.3	- 8.8	3,022	6.7	5.6	- 7.9
FEMALE	3,596	4.1	3.1	- 5.1	3,592	4.4	3.5	- 5.4
AGE GROUP								
35–44	†				†			
45–54	1,314	2.5	1.5	- 3.6	1,321	1.7	0.9	- 2.5
55–64	1,794	5.8	4.3	- 7.2	1,792	4.6	3.3	- 5.9
65–74	1,545	7.9	5.9	- 10.0	1,530	10.4	8.2	- 12.7
75 AND OLDER	1,048	15.2	11.6	- 18.9	1,037	16.5	12.7	- 20.4
RACE-ETHNICITY*								
WHITE	5,512	5.8	4.9	- 6.6	5,488	6.1	5.2	- 7.0
BLACK	†				†			
HISPANIC	457	6.5	3.5	- 9.5	459	3.9	1.7	- 6.1
ASIAN	†				†			
DISABILITY¶								
DISABILITY	1,888	13.0	10.6	- 15.4	1,868	11.6	9.5	- 13.7
NO DISABILITY	4,423	3.0	2.3	- 3.7	4,418	3.4	2.7	- 4.1
EDUCATION								
< HIGH SCHOOL	428	11.0	6.9	- 15.1	419	8.9	5.0	- 12.9
HIGH SCHOOL	1,506	6.8	5.2	- 8.4	1,512	6.4	4.9	- 8.0
COLLEGE 1–3 YRS	1,481	6.0	4.5	- 7.6	1,474	6.4	4.8	- 8.0
COLLEGE 4+ YRS	3,196	3.2	2.4	- 4.1	3,186	3.3	2.6	- 3.9
HOUSEHOLD INCOME								
<\$25,000	796	11.9	8.2	- 15.6	795	10.0	6.6	- 13.5
\$25,000–34,999	433	7.3	4.0	- 10.6	433	8.1	4.5	- 11.7
\$35,000–49,999	650	6.3	3.8	- 8.8	645	6.3	3.9	- 8.7
\$50,000–74,999	747	4.2	2.5	- 6.0	746	5.8	3.6	- 8.0
\$75,000+	2,364	3.2	2.2	- 4.2	2,361	3.3	2.3	- 4.2

* White, Black, and Asian race categories refer to non-Hispanic
 ¶ See p 67 for definition of disability
 † Insufficient data

**TABLE 5.4.2 – STROKE AMONG MASSACHUSETTS ADULTS,
AGES 35 YEARS AND OLDER, 2016**

	EVER DIAGNOSED WITH STROKE		
	N	%	95% CI
OVERALL	6,650	3.5	2.9 - 4.1
GENDER			
MALE	3,040	2.8	2.2 - 3.5
FEMALE	3,610	4.2	3.2 - 5.1
AGE GROUP			
35–44	†		
45–54	1,322	1.6	0.9 - 2.4
55–64	1,797	3.0	2.0 - 4.1
65–74	1,543	5.8	4.1 - 7.5
75 AND OLDER	1,054	8.9	6.4 - 11.3
RACE-ETHNICITY*			
WHITE	5,520	3.5	2.9 - 4.1
BLACK	320	4.8	2.1 - 7.5
HISPANIC	†		
ASIAN	†		
DISABILITY[¶]			
DISABILITY	1,894	8.5	6.7 - 10.3
NO DISABILITY	4,428	1.7	1.3 - 2.2
EDUCATION			
< HIGH SCHOOL	430	6.0	3.1 - 8.8
HIGH SCHOOL	1,519	4.5	3.3 - 5.7
COLLEGE 1–3 YRS	1,485	3.9	2.7 - 5.2
COLLEGE 4+ YRS	3,193	1.8	1.3 - 2.3
HOUSEHOLD INCOME			
<\$25,000	802	6.9	4.6 - 9.1
\$25,000–34,999	434	4.5	2.1 - 7.0
\$35,000–49,999	653	3.8	2.1 - 5.5
\$50,000–74,999	†		
\$75,000+	2,358	1.6	0.9 - 2.2

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

† Insufficient data

SECTION 5.5: 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, 2016			
	EVER DIAGNOSED WITH DEPRESSION		
	N	%	95% CI
OVERALL	8,371	18.7	17.5 - 19.9
GENDER			
MALE	3,930	14.9	13.4 - 16.5
FEMALE	4,440	22.1	20.3 - 23.8
AGE GROUP			
18–24	556	21.9	17.5 - 26.3
25–34	967	19.4	16.4 - 22.3
35–44	933	21.6	18.2 - 25.1
45–54	1,325	17.3	14.7 - 19.8
55–64	1,796	20.1	17.7 - 22.6
65–74	1,544	18.3	15.4 - 21.2
75 AND OLDER	1,053	11.0	7.6 - 14.3
RACE-ETHNICITY*			
WHITE	6,652	18.9	17.5 - 20.2
BLACK	464	17.4	12.4 - 22.4
HISPANIC	672	22.8	19.0 - 26.6
ASIAN	261	9.0	3.9 - 14.0
DISABILITY[¶]			
DISABILITY	2,147	41.7	38.6 - 44.8
NO DISABILITY	5,789	11.6	10.6 - 12.7
EDUCATION			
< HIGH SCHOOL	492	29.9	24.3 - 35.5
HIGH SCHOOL	1,861	20.1	17.7 - 22.5
COLLEGE 1–3 YRS	1,941	19.3	17.0 - 21.5
COLLEGE 4+ YRS	4,029	14.3	12.9 - 15.7
HOUSEHOLD INCOME			
<\$25,000	986	34.8	30.6 - 39.1
\$25,000–34,999	554	20.8	15.8 - 25.8
\$35,000–49,999	828	17.3	13.9 - 20.6
\$50,000–74,999	955	15.4	12.2 - 18.5
\$75,000+	2,876	14.7	12.9 - 16.4

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 for definition of disability

SECTION 5.6: 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, 2016			
	EVER DIAGNOSED WITH CANCER		
	N	%	95% CI
OVERALL	8,373	11.4	10.6 - 12.3
GENDER			
MALE	3,937	10.0	8.9 - 11.2
FEMALE	4,435	12.7	11.4 - 14.0
AGE GROUP			
18–24	†		
25–34	970	2.4	1.2 - 3.5
35–44	932	4.1	2.6 - 5.7
45–54	1,325	9.6	7.4 - 11.9
55–64	1,790	15.0	12.8 - 17.1
65–74	1,545	25.8	22.6 - 29.0
75 AND OLDER	1,052	35.4	30.9 - 39.9
RACE-ETHNICITY*			
WHITE	6,653	13.9	12.8 - 15.0
BLACK	†		
HISPANIC	676	4.0	2.1 - 5.9
ASIAN	†		
DISABILITY[¶]			
DISABILITY	2,151	17.1	14.9 - 19.3
NO DISABILITY	5,785	9.7	8.8 - 10.6
EDUCATION			
< HIGH SCHOOL	495	7.6	4.8 - 10.4
HIGH SCHOOL	1,859	12.2	10.2 - 14.2
COLLEGE 1–3 YRS	1,939	11.9	10.2 - 13.6
COLLEGE 4+ YRS	4,032	11.5	10.4 - 12.7
HOUSEHOLD INCOME			
<\$25,000	995	10.0	7.7 - 12.4
\$25,000–34,999	551	12.2	8.6 - 15.8
\$35,000–49,999	828	13.0	9.7 - 16.3
\$50,000–74,999	953	13.7	10.9 - 16.5
\$75,000+	2,873	9.8	8.5 - 11.1

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 for definition of disability
† Insufficient data

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 ages 50-74 who had either a blood stool test in the previous year, a blood stool test in the previous three years and a sigmoidoscopy or colonoscopy in the previous five years, or a colonoscopy in the previous ten years.

Please note that these results should not be compared to those in prior years' reports as the definition has changed.

TABLE 6.1 – COLORECTAL CANCER SCREENING AMONG MASSACHUSETTS ADULTS			
AGES 50-74, 2016			
	MET SCREENING RECOMMENDATION FOR COLORECTAL CANCER		
	N	%	95% CI
OVERALL	3,603	76.3	74.1 - 78.4
GENDER			
MALE	1,625	75.9	73.0 - 78.8
FEMALE	1,978	76.6	73.5 - 79.7
AGE GROUP			
50-59	1,363	65.3	61.6 - 69.1
60-69	1,580	85.6	83.3 - 87.9
70-74	660	84.4	80.3 - 88.4
RACE-ETHNICITY*			
WHITE	3,069	78.4	76.4 - 80.5
BLACK	175	66.9	54.6 - 79.2
HISPANIC	212	70.1	62.0 - 78.1
ASIAN	†		
DISABILITY¶			
DISABILITY	1,007	75.2	71.3 - 79.2
NO DISABILITY	2,560	76.5	73.9 - 79.0
EDUCATION			
< HIGH SCHOOL	190	68.8	59.2 - 78.4
HIGH SCHOOL	799	73.3	69.0 - 77.7
COLLEGE 1-3 YRS	814	73.7	69.0 - 78.4
COLLEGE 4+ YRS	1,793	81.9	79.7 - 84.2
HOUSEHOLD INCOME			
<\$25,000	423	67.3	60.0 - 74.6
\$25,000-34,999	235	66.1	55.8 - 76.4
\$35,000-49,999	352	76.4	69.3 - 83.6
\$50,000-74,999	452	83.0	77.5 - 88.4
\$75,000+	1,333	78.5	75.1 - 81.8

* White, Black, and Asian race categories refer to non-Hispanic
 ¶ See p 67 for definition of disability
 † Insufficient data

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. The percentage of women age 50-74 in Massachusetts who reported that they had a mammogram in the past two years is presented in Table 6.2.

Please note that these results should not be compared to those in prior years' reports as the definition has changed.

TABLE 6.2 – BREAST CANCER SCREENING AMONG MASSACHUSETTS WOMEN			
AGES 50 - 74, 2016			
	MAMMOGRAM IN THE PAST TWO YEARS		
	N	%	95% CI
OVERALL	2,005	86.3	84.1 - 88.5
AGE GROUP			
50-59	728	85.7	82.1 - 89.3
60-69	941	86.6	83.5 - 89.7
70-74	336	87.2	81.7 - 92.6
RACE-ETHNICITY*			
WHITE	1,680	85.4	82.9 - 87.9
BLACK	110	83.4	72.7 - 94.2
HISPANIC	140	91.9	85.8 - 97.9
ASIAN	†		
DISABILITY¶			
DISABILITY	577	85.2	81.1 - 89.3
NO DISABILITY	1,408	86.4	83.8 - 89.1
EDUCATION			
< HIGH SCHOOL	126	82.3	71.7 - 92.9
HIGH SCHOOL	421	82.5	77.4 - 87.6
COLLEGE 1–3 YRS	476	88.1	84.2 - 92.0
COLLEGE 4+ YRS	979	88.4	85.9 - 90.8
HOUSEHOLD INCOME			
<\$25,000	253	85.3	78.1 - 92.5
\$25,000–34,999	148	82.2	73.5 - 91.0
\$35,000–49,999	199	82.0	74.9 - 89.1
\$50,000–74,999	246	83.5	75.2 - 91.8
\$75,000+	655	89.5	86.6 - 92.4
* White, Black, and Asian race categories refer to non-Hispanic ¶ See p 67 for definition of disability † Insufficient data			

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 ages 21 – 65 without a hysterectomy who reported having had a Pap smear in the past 3 years is presented below.

Please note that these results should not be compared to those in prior years' reports as the definition has changed.

TABLE 6.3 – CERVICAL CANCER SCREENING AMONG MASSACHUSETTS WOMEN, AGES 21-65, 2016

	PAP SMEAR TEST WITHIN PAST THREE YEARS		
	N	%	95% CI
OVERALL	2,185	84.1	82.0 - 86.2
AGE GROUP			
21–24	137	58.5	48.7 - 68.4
25–34	383	84.4	80.1 - 88.6
35–44	379	87.3	82.8 - 91.7
45–54	527	89.0	84.8 - 93.2
55–65	759	86.7	83.3 - 90.0
RACE-ETHNICITY*			
WHITE	1,705	85.9	83.7 - 88.2
BLACK	111	81.2	71.2 - 91.3
HISPANIC	232	85.0	79.5 - 90.5
ASIAN	83	69.7	57.2 - 82.3
DISABILITY [¶]			
DISABILITY	469	84.9	80.4 - 89.3
NO DISABILITY	1,702	84.3	81.9 - 86.7
EDUCATION			
< HIGH SCHOOL	92	90.5	80.4 - 100
HIGH SCHOOL	340	78.2	72.2 - 84.2
COLLEGE 1–3 YRS	487	82.2	77.8 - 86.6
COLLEGE 4+ YRS	1,259	86.2	83.7 - 88.7
HOUSEHOLD INCOME			
<\$25,000	238	81.6	75.0 - 88.2
\$25,000–34,999	123	71.9	59.1 - 84.6
\$35,000–49,999	210	84.2	78.2 - 90.2
\$50,000–74,999	278	82.9	76.5 - 89.3
\$75,000+	908	89.8	87.1 - 92.5

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 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 2016, 0.4% 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, 2016			
	SELF-IDENTIFIED AS HOMOSEXUAL, BISEXUAL OR OTHER		
	N	%	95% CI
OVERALL	6,746	6.8	5.9 - 7.7
GENDER			
MALE	3,134	6.1	5.0 - 7.2
FEMALE	3,612	7.4	6.1 - 8.8
AGE GROUP			
18–24	372	15.5	10.8 - 20.1
25–34	666	10.4	7.6 - 13.2
35–44	720	6.0	3.9 - 8.1
45–54	1,113	5.7	4.1 - 7.2
55–64	1,519	5.3	4.0 - 6.7
65–74	1,341	2.7	1.7 - 3.8
75 AND OLDER	†		
RACE-ETHNICITY*			
WHITE	5,467	7.0	6.0 - 8.0
BLACK	†		
HISPANIC	518	5.8	3.7 - 8.0
ASIAN	†		
DISABILITY[¶]			
DISABILITY	1,847	9.3	7.1 - 11.5
NO DISABILITY	4,820	6.0	5.1 - 7.0
EDUCATION			
< HIGH SCHOOL	362	8.1	3.7 - 12.5
HIGH SCHOOL	1,512	6.8	5.0 - 8.7
COLLEGE 1–3 YRS	1,583	6.4	4.7 - 8.0
COLLEGE 4+ YRS	3,261	6.8	5.7 - 7.8
HOUSEHOLD INCOME			
<\$25,000	779	7.9	5.0 - 10.9
\$25,000–34,999	451	9.1	4.5 - 13.8
\$35,000–49,999	685	5.6	3.3 - 8.0
\$50,000–74,999	782	7.0	4.6 - 9.5
\$75,000+	2,391	5.9	4.6 - 7.2

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 for definition of disability
† Insufficient data

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, 2016										
	EVER TESTED FOR HIV					TESTED FOR HIV IN PAST YEAR				
	N	%	95% CI			N	%	95% CI		
OVERALL	4,839	45.6	43.7	-	47.5	4,251	10.2	9.0	-	11.5
GENDER										
MALE	2,372	42.9	40.3	-	45.5	2,095	10.6	8.7	-	12.5
FEMALE	2,466	48.3	45.6	-	51.0	2,155	9.9	8.2	-	11.6
AGE GROUP										
18–24	479	29.9	24.6	-	35.2	452	16.3	11.7	-	20.8
25–34	850	56.8	52.7	-	60.9	738	15.8	12.7	-	18.9
35–44	800	60.8	56.5	-	65.2	696	11.7	8.9	-	14.6
45–54	1,162	45.0	41.3	-	48.8	994	5.8	4.1	-	7.4
55–64	1,548	33.5	30.3	-	36.7	1,371	2.8	1.7	-	3.8
RACE-ETHNICITY*										
WHITE	3,668	43.2	41.1	-	45.3	3,265	8.0	6.7	-	9.3
BLACK	279	64.5	56.5	-	72.5	230	21.6	14.9	-	28.3
HISPANIC	519	59.8	54.5	-	65.0	419	18.8	14.4	-	23.3
ASIAN	209	28.8	20.9	-	36.8	†				
DISABILITY¶										
DISABILITY	1,047	55.1	50.8	-	59.3	870	15.1	11.3	-	18.8
NO DISABILITY	3,748	43.3	41.2	-	45.3	3,345	9.0	7.7	-	10.3
EDUCATION										
< HIGH SCHOOL	244	48.8	40.6	-	57.0	199	13.5	6.6	-	20.4
HIGH SCHOOL	980	42.6	38.5	-	46.7	847	9.5	6.9	-	12.0
COLLEGE 1–3 YRS	1,125	44.2	40.4	-	47.9	984	12.1	9.5	-	14.6
COLLEGE 4+ YRS	2,473	47.9	45.5	-	50.3	2,210	8.8	7.3	-	10.3
HOUSEHOLD INCOME										
<\$25,000	559	56.8	51.1	-	62.5	467	20.2	14.9	-	25.4
\$25,000–34,999	278	52.3	44.4	-	60.2	241	15.0	8.8	-	21.3
\$35,000–49,999	438	47.5	41.5	-	53.5	388	12.6	8.6	-	16.6
\$50,000–74,999	564	46.3	40.7	-	51.9	513	10.9	7.4	-	14.3
\$75,000+	2,048	43.6	40.8	-	46.4	1,840	7.5	5.8	-	9.2

* White, Black, and Asian race categories refer to non-Hispanic
 ¶ See p 67 for definition of disability
 † Insufficient data

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.

TABLE 7.3 – SEXUAL VIOLENCE AMONG MASSACHUSETTS ADULTS, 2016										
	SEXUAL VIOLENCE, WOMEN					SEXUAL VIOLENCE, MEN				
	N	%	95% CI			N	%	95% CI		
OVERALL	1,534	17.0	14.4	-	19.6	1,410	5.5	3.8	-	7.2
AGE GROUP										
18–24	72	18.5	9.1	-	28.0	†				
25–34	125	20.5	12.2	-	28.7	†				
35–44	155	19.4	11.4	-	27.4	†				
45–54	254	18.2	12.8	-	23.6	†				
55–64	377	17.3	12.3	-	22.4	†				
65–74	312	15.5	9.3	-	21.7	†				
75 AND OLDER	†					†				
RACE-ETHNICITY*										
WHITE	1,251	17.2	14.3	-	20.1	1,143	4.9	3.1	-	6.7
BLACK	†					†				
HISPANIC	120	12.3	5.7	-	18.9	†				
ASIAN	†					†				
DISABILITY¶										
DISABILITY	450	26.0	19.6	-	32.4	329	8.9	4.7	-	13.0
NO DISABILITY	1,068	14.0	11.4	-	16.7	1,063	4.7	2.8	-	6.6
EDUCATION										
< HIGH SCHOOL	†					†				
HIGH SCHOOL	315	14.8	9.0	-	20.7	†				
COLLEGE 1–3 YRS	387	18.4	13.1	-	23.6	311	7.6	3.7	-	11.4
COLLEGE 4+ YRS	740	16.9	13.6	-	20.3	695	3.8	2.1	-	5.5
HOUSEHOLD INCOME										
<\$25,000	196	23.0	13.9	-	32.2	149	16.1	6.9	-	25.3
\$25,000–34,999	†					†				
\$35,000–49,999	169	21.7	12.4	-	31.1	†				
\$50,000–74,999	154	13.6	5.9	-	21.2	†				
\$75,000+	488	15.3	11.5	-	19.1	578	4.8	2.2	-	7.3

* White, Black, and Asian race categories refer to non-Hispanic
 ¶ See p 67 for definition of disability
 † Insufficient data

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.

	UNINTENTIONAL FALLS				INJURED BY UNINTENTIONAL FALL			
	N	%	95% CI		N	%	95% CI	
OVERALL	2,417	29.0	26.3	- 31.6	2,413	11.3	9.4	- 13.2
GENDER								
MALE	1,019	25.3	21.6	- 29.1	1,019	8.5	6.2	- 10.7
FEMALE	1,398	31.8	28.1	- 35.5	1,394	13.5	10.6	- 16.3
AGE GROUP								
65-74	1,450	27.8	24.5	- 31.1	1,448	9.5	7.5	- 11.6
75-84	725	28.8	23.8	- 33.7	723	11.4	7.6	- 15.1
85 AND OLDER	242	37.3	27.8	- 46.8	242	22.2	13.9	- 30.5
RACE-ETHNICITY*								
WHITE	2,136	29.2	26.4	- 31.9	2,132	11.0	9.1	- 12.8
BLACK	†				†			
HISPANIC	†				†			
ASIAN	†				†			
DISABILITY¶								
DISABILITY	933	42.2	37.2	- 47.2	932	18.7	14.8	- 22.6
NO DISABILITY	1,448	20.4	17.6	- 23.1	1,445	6.3	4.6	- 8.0
EDUCATION								
< HIGH SCHOOL	178	27.3	17.8	- 36.7	178	14.9	7.3	- 22.4
HIGH SCHOOL	605	27.1	21.9	- 32.2	604	9.5	6.1	- 12.9
COLLEGE 1-3 YRS	557	31.2	25.9	- 36.6	557	11.2	7.6	- 14.9
COLLEGE 4+ YRS	1,068	30.0	26.5	- 33.6	1,065	11.5	9.0	- 13.9
HOUSEHOLD INCOME								
<\$25,000	316	37.4	28.4	- 46.4	316	19.8	11.7	- 27.8
\$25,000-34,999	217	29.6	20.5	- 38.7	217	11.7	5.1	- 18.3
\$35,000-49,999	313	34.8	27.2	- 42.5	312	12.9	7.4	- 18.3
\$50,000-74,999	279	20.4	14.1	- 26.8	†			
\$75,000+	529	26.4	21.6	- 31.2	527	11.0	7.5	- 14.5

* White, Black, and Asian race categories refer to non-Hispanic
 ¶ See p 67 for definition of disability
 † Insufficient data

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, 2016			
	DRINKING AND DRIVING IN PAST 30 DAYS		
	N	%	95% CI
OVERALL	7,819	2.8	2.2 - 3.3
GENDER			
MALE	3,644	3.8	2.9 - 4.7
FEMALE	4,174	1.8	1.2 - 2.4
AGE GROUP			
18–24	509	4.1	1.8 - 6.4
25–34	894	3.8	2.2 - 5.4
35–44	862	3.2	1.8 - 4.7
45–54	1,240	3.0	1.8 - 4.3
55–64	1,687	2.1	1.3 - 2.9
65–74	†		
75 AND OLDER	†		
RACE-ETHNICITY*			
WHITE	6,223	2.6	2.0 - 3.2
BLACK	†		
HISPANIC	638	3.3	1.4 - 5.1
ASIAN	†		
DISABILITY[¶]			
DISABILITY	2,101	2.5	1.3 - 3.8
NO DISABILITY	5,627	2.8	2.2 - 3.4
EDUCATION			
< HIGH SCHOOL	†		
HIGH SCHOOL	1,710	2.1	1.2 - 3.1
COLLEGE 1–3 YRS	1,796	3.5	2.2 - 4.7
COLLEGE 4+ YRS	3,814	2.7	2.0 - 3.3
HOUSEHOLD INCOME			
<\$25,000	†		
\$25,000–34,999	†		
\$35,000–49,999	786	2.8	1.2 - 4.3
\$50,000–74,999	897	4.4	2.4 - 6.5
\$75,000+	2,741	3.4	2.4 - 4.3

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 for definition of disability
† Insufficient data

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, 2016				
	ALWAYS USE A SEATBELT			
	N	%	95% CI	
OVERALL	7,730	81.3	80.0	- 82.5
GENDER				
MALE	3,610	76.7	74.7	- 78.6
FEMALE	4,119	85.6	84.0	- 87.2
AGE GROUP				
18–24	505	73.5	68.5	- 78.6
25–34	888	77.9	74.5	- 81.2
35–44	856	83.1	79.8	- 86.3
45–54	1,231	82.3	79.4	- 85.2
55–64	1,667	83.2	80.9	- 85.6
65–74	1,440	84.7	82.1	- 87.3
75 AND OLDER	966	84.6	80.7	- 88.5
RACE-ETHNICITY*				
WHITE	6,168	81.5	80.0	- 82.9
BLACK	408	79.5	73.5	- 85.4
HISPANIC	621	83.4	79.9	- 86.8
ASIAN	240	82.7	76.3	- 89.1
DISABILITY [¶]				
DISABILITY	2,056	76.5	73.5	- 79.4
NO DISABILITY	5,586	82.8	81.4	- 84.2
EDUCATION				
< HIGH SCHOOL	439	77.4	71.7	- 83.1
HIGH SCHOOL	1,682	75.9	73.2	- 78.7
COLLEGE 1–3 YRS	1,786	77.2	74.5	- 79.9
COLLEGE 4+ YRS	3,784	88.8	87.5	- 90.1
HOUSEHOLD INCOME				
<\$25,000	896	76.9	72.7	- 81.2
\$25,000–34,999	523	79.3	74.5	- 84.2
\$35,000–49,999	785	77.6	73.6	- 81.5
\$50,000–74,999	892	77.6	73.7	- 81.6
\$75,000+	2,734	85.1	83.2	- 87.0

* White, Black, and Asian race categories refer to non-Hispanic
[¶] See p 67 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.

	UNPLANNED PREGNANCY			USE BIRTH CONTROL				
	N	%	95% CI	N	%	95% CI		
OVERALL	†			320	72.0	65.8	-	78.2
AGE GROUP								
18–24	†			71	67.0	54.3	-	79.7
25–34	†			114	73.9	63.9	-	83.9
35–44	†			135	75.7	67.6	-	83.8
RACE-ETHNICITY*								
WHITE	†			220	72.7	65.0	-	80.4
BLACK	†			†				
HISPANIC	†			56	67.5	53.5	-	81.5
ASIAN	†			†				
DISABILITY [¶]								
DISABILITY	†			65	68.7	54.1	-	83.2
NO DISABILITY	†			251	73.4	66.5	-	80.4
EDUCATION								
< HIGH SCHOOL	†			†				
HIGH SCHOOL	†			†			-	
COLLEGE 1–3 YRS	†			97	67.6	56.7	-	78.5
COLLEGE 4+ YRS	†			165	76.7	69.4	-	84.0
HOUSEHOLD INCOME								
<\$25,000	†			†			-	
\$25,000–34,999	†			†				
\$35,000–49,999	†			†			-	
\$50,000–74,999	†			†			-	
\$75,000+	†			118	76.0	66.8	-	85.3

* White, Black, and Asian race categories refer to non-Hispanic
† Insufficient Data
¶ See p 67 for definition of disability

SECTION 7.8: OPIOID AND MARIJUANA USE

Respondents were asked if they were ever prescribed pain killers (e.g. Vicodin, Darvon, Percocet, Codeine, or OxyContin) or medical marijuana by a doctor or other health professional. They were also asked if they had any “non-medical” use of prescription pain killers or marijuana in the previous year. “Non-medical” drug use was defined for respondents as using it to get high or experience pleasurable effects, see what the effects are like, or take with friends. Presented here are the percentages of adults who report that they have ever been prescribed an opiate or marijuana and the percent who report non-medical use of these drugs in the previous year.

TABLE 7.8.1 – OPIOID AMONG MASSACHUSETTS ADULTS, 2016

	EVER PRESCRIBED OPIATE				NON-MEDICAL USE OF OPIATE IN PAST YEAR					
	N	%	95% CI		N	%	95% CI			
OVERALL	2,831	32.5	30.1	-	34.8	2,862	2.7	1.9	-	3.5
GENDER										
MALE	1,281	30.1	26.8	-	33.3	1,295	3.9	2.4	-	5.3
FEMALE	1,550	34.6	31.3	-	38.0	1,567	1.7	0.9	-	2.5
AGE GROUP										
18–24	147	16.9	10.1	-	23.7	†				
25–34	273	38.1	31.3	-	44.9	†				
35–44	304	28.6	21.8	-	35.5	†				
45–54	471	29.9	24.7	-	35.0	†				
55–64	632	39.7	34.7	-	44.7	†				
65–74	567	39.8	34.3	-	45.3	†				
75 AND OLDER	381	30.3	23.6	-	37.1	†				
RACE-ETHNICITY*										
WHITE	2,280	36.3	33.6	-	39.0	2,300	2.5	1.7	-	3.4
BLACK	159	21.6	12.4	-	30.9	†				
HISPANIC	216	16.0	9.5	-	22.5	†				
ASIAN	†					†				
DISABILITY [¶]										
DISABILITY	810	44.6	39.6	-	49.7	825	5.7	3.4	-	7.9
NO DISABILITY	1,988	28.3	25.7	-	30.9	2,004	1.7	1.0	-	2.4
EDUCATION										
< HIGH SCHOOL	165	25.2	15.7	-	34.6	†				
HIGH SCHOOL	641	30.9	26.1	-	35.7	645	4.1	2.0	-	6.1
COLLEGE 1–3 YRS	642	36.0	30.9	-	41.0	650	2.8	1.2	-	4.3
COLLEGE 4+ YRS	1,372	33.1	30.1	-	36.2	1,388	1.4	0.7	-	2.0
HOUSEHOLD INCOME										
<\$25,000	338	33.6	26.3	-	40.9	345	7.6	3.4	-	11.8
\$25,000–34,999	208	39.1	29.4	-	48.8	†				
\$35,000–49,999	275	36.4	28.9	-	43.8	†				
\$50,000–74,999	349	35.5	28.3	-	42.6	†				
\$75,000+	997	33.7	30.0	-	37.4	†				

* White, Black, and Asian race categories refer to non-Hispanic

[¶] See p 67 for definition of disability

† Insufficient data

TABLE 7.8.2 – MARIJUANA USE AMONG MASSACHUSETTS ADULTS, 2016

	EVER PRESCRIBED MARIJUANA				NON-MEDICAL USE OF MARIJUANA IN PAST YEAR					
	N	%	95% CI		N	%	95% CI			
OVERALL	2,853	1.8	1.1	-	2.5	2,859	12.0	10.2	-	13.8
GENDER										
MALE	1,291	2.2	1.1	-	3.3	1,294	16.1	13.3	-	18.8
FEMALE	1,562	1.4	0.6	-	2.3	1,565	8.3	6.0	-	10.7
AGE GROUP										
18–24	†					148	24.5	16.7	-	32.3
25–34	†					274	22.3	16.5	-	28.1
35–44	†					306	12.7	7.2	-	18.3
45–54	†					477	7.2	4.4	-	9.9
55–64	†					638	7.2	4.8	-	9.6
65–74	†					573	6.3	3.1	-	9.4
75 AND OLDER	†					†				
RACE-ETHNICITY*										
WHITE	2,296	1.9	1.1	-	2.8	2,298	12.2	10.3	-	14.2
BLACK	†					†				
HISPANIC	†					221	9.4	4.6	-	14.2
ASIAN	†					†				
DISABILITY¶										
DISABILITY	822	4.5	2.4	-	6.7	824	16.6	12.2	-	21.0
NO DISABILITY	1,998	0.9	0.4	-	1.3	2,002	10.5	8.6	-	12.3
EDUCATION										
< HIGH SCHOOL	†					†				
HIGH SCHOOL	644	3.6	1.7	-	5.5	644	13.2	9.7	-	16.8
COLLEGE 1–3 YRS	†					648	15.5	11.3	-	19.7
COLLEGE 4+ YRS	†					1,387	8.7	6.8	-	10.6
HOUSEHOLD INCOME										
<\$25,000	†					344	19.4	13.0	-	25.8
\$25,000–34,999	†					210	12.3	5.8	-	18.8
\$35,000–49,999	†					279	18.2	12.1	-	24.3
\$50,000–74,999	†					349	12.6	7.1	-	18.1
\$75,000+	†					1,002	9.1	6.7	-	11.6

* White, Black, and Asian race categories refer to non-Hispanic

¶ See p 67 for definition of disability

† Insufficient data

APPENDIX

AGE-ADJUSTED PERCENTAGES FOR SELECTED TOPICS

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016															
	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	13.9	12.7	- 15.0	11.6	10.5	- 12.7	9.7	8.7	- 10.7	22.9	21.6	- 24.2	3.9	3.1	- 4.8
GENDER															
MALE	14.0	12.4	- 15.6	10.2	8.7	- 11.7	9.3	7.9	- 10.6	21.9	20.1	- 23.7	5.5	4.2	- 6.8
FEMALE	13.6	12.1	- 15.1	12.9	11.3	- 14.4	9.8	8.5	- 11.1	23.6	21.7	- 25.5	2.6	1.7	- 3.6
RACE-ETHNICITY*															
WHITE	11.5	10.3	- 12.6	11.5	10.2	- 12.8	9.0	8.0	- 10.1	21.0	19.5	- 22.4	3.2	2.3	- 4.0
BLACK	16.8	11.7	- 21.9	13.5	8.7	- 18.3	11.7	6.4	- 16.9	24.2	18.4	- 30.0	†		
HISPANIC	32.1	27.6	- 36.7	12.3	9.2	- 15.4	14.3	10.7	- 17.9	38.0	33.5	- 42.5	7.5	7.3	- 7.8
ASIAN	†			†			†			18.9	10.3	- 27.6	†		
DISABILITY [¶]															
DISABILITY	38.5	34.7	- 42.3	33.3	29.4	- 37.1	30.3	26.6	- 34.0	<i>n/a</i>			6.0	3.5	- 8.5
NO DISABILITY	6.4	5.5	- 7.3	6.2	5.3	- 7.2	4.0	3.2	- 4.7	<i>n/a</i>			3.5	2.6	- 4.3
EDUCATION															
< HIGH SCHOOL	33.8	27.7	- 40.0	20.5	14.7	- 26.3	19.9	14.4	- 25.5	41.6	35.4	- 47.8	12.6	7.4	- 17.8
HIGH SCHOOL	17.1	14.7	- 19.5	14.0	11.7	- 16.4	13.3	11.1	- 15.6	29.8	26.8	- 32.8	6.3	4.4	- 8.2
COLLEGE 1-3 YRS	13.5	11.4	- 15.5	14.7	12.4	- 17.1	9.9	8.1	- 11.6	25.6	22.8	- 28.5	2.4	1.2	- 3.6
COLLEGE 4+ YRS	6.2	5.2	- 7.3	6.9	5.6	- 8.2	4.4	3.6	- 5.1	11.3	10.1	- 12.5	2.2	1.2	- 3.1
HOUSEHOLD INCOME															
<\$25,000	31.3	27.1	- 35.6	21.7	17.8	- 25.7	21.8	17.8	- 25.8	46.6	41.9	- 51.3	8.3	5.0	- 11.5
\$25,000-34,999	19.0	13.8	- 24.3	16.3	11.5	- 21.1	13.3	8.6	- 18.0	25.1	20.2	- 30.0	†		
\$35,000-49,999	15.0	11.1	- 19.0	11.0	7.8	- 14.2	9.2	5.9	- 12.6	23.2	19.0	- 27.3	†		
\$50,000-74,999	13.0	9.4	- 16.6	8.9	5.9	- 11.8	7.8	5.3	- 10.4	16.9	13.2	- 20.6	†		
\$75,000+	5.2	4.1	- 6.4	7.3	5.7	- 8.8	4.7	3.6	- 5.8	12.7	10.8	- 14.6	1.6	0.8	- 2.3

* White, Black, and Asian race categories refer to non-Hispanic
† Insufficient data
¶ See p 67 for definition of disability

AGE-ADJUSTED PERCENTAGES FOR SELECTED TOPICS (CONTINUED)

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016															
	PERSONAL DOCTOR			NO DOCTOR DUE TO COST			CHECKUP IN PAST YEAR			DENTAL VISIT IN PAST YEAR			SIX OR MORE TEETH MISSING		
	%	95% CI		%	95% CI		%	95% CI		%	95% CI		%	95% CI	
OVERALL	88.1	87.1	- 89.2	9.0	8.1	- 10.0	77.4	76.0	- 78.8	73.7	72.2	- 75.1	12.7	11.7	- 13.6
GENDER															
MALE	83.2	81.6	- 84.9	9.2	7.9	- 10.5	73.9	72.0	- 75.8	69.8	67.8	- 71.9	12.9	11.6	- 14.1
FEMALE	92.8	91.6	- 94.1	8.9	7.6	- 10.2	80.9	79.1	- 82.8	77.0	75.0	- 78.9	12.0	10.8	- 13.2
RACE-ETHNICITY*															
WHITE	90.5	89.4	- 91.7	7.1	6.2	- 8.0	77.3	75.7	- 78.9	76.2	74.6	- 77.8	11.5	10.5	- 12.4
BLACK	87.5	82.6	- 92.3	14.2	9.3	- 19.1	82.7	77.9	- 87.6	65.5	58.6	- 72.4	19.0	14.5	- 23.4
HISPANIC	77.8	73.5	- 82.2	19.1	14.9	- 23.3	78.7	75.2	- 82.2	68.0	63.5	- 72.6	16.3	12.7	- 19.9
ASIAN	84.4	80.5	- 88.4	†			78.5	71.7	- 85.2	66.5	57.1	- 76.0	†		
DISABILITY [¶]															
DISABILITY	89.4	86.8	- 92.0	18.9	15.8	- 22.0	78.3	74.9	- 81.6	63.4	59.6	- 67.2	23.7	20.8	- 26.7
NO DISABILITY	88.0	86.9	- 89.2	6.4	5.5	- 7.3	77.1	75.6	- 78.7	77.2	75.6	- 78.7	9.1	8.1	- 10.0
EDUCATION															
< HIGH SCHOOL	78.4	73.0	- 83.9	17.1	12.2	- 21.9	71.8	65.7	- 77.9	51.5	44.9	- 58.2	28.5	23.6	- 33.4
HIGH SCHOOL	85.9	83.5	- 88.2	10.2	8.3	- 12.2	76.4	73.5	- 79.3	67.5	64.4	- 70.6	16.9	15.0	- 18.9
COLLEGE 1–3 YRS	91.1	89.3	- 92.9	10.8	8.8	- 12.8	80.5	77.9	- 83.2	75.0	72.2	- 77.8	12.4	10.6	- 14.1
COLLEGE 4+ YRS	89.2	87.8	- 90.6	5.7	4.6	- 6.8	76.8	74.9	- 78.7	81.7	79.9	- 83.4	4.6	3.9	- 5.2
HOUSEHOLD INCOME															
<\$25,000	83.8	80.3	- 87.2	15.4	12.1	- 18.7	74.3	70.1	- 78.6	58.0	53.4	- 62.7	25.9	22.7	- 29.1
\$25,000–34,999	85.7	81.3	- 90.2	15.2	10.7	- 19.6	76.2	70.8	- 81.5	63.6	57.6	- 69.5	18.2	13.5	- 23.0
\$35,000–49,999	87.3	84.4	- 90.2	11.2	8.0	- 14.4	80.6	76.8	- 84.3	71.0	66.3	- 75.6	11.5	8.9	- 14.1
\$50,000–74,999	89.6	86.9	- 92.2	7.6	5.4	- 9.9	76.8	72.9	- 80.6	75.6	71.3	- 79.9	11.4	8.5	- 14.3
\$75,000+	92.0	90.5	- 93.4	4.7	3.6	- 5.8	78.4	76.2	- 80.5	84.3	82.4	- 86.2	5.8	4.6	- 7.0

* White, Black, and Asian race categories refer to non-Hispanic

† Insufficient data

¶ See p 67 for definition of disability

AGE-ADJUSTED PERCENTAGES FOR SELECTED TOPICS (CONTINUED)

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016															
	CURRENT SMOKER			FORMER SMOKER			USE SMOKELESS TOBACCO			USE E-CIGARETTES			QUIT ATTEMPT		
	%	95% CI		%	95% CI		%	95% CI		%	95% CI		%	95% CI	
OVERALL	13.9	12.8	- 15.1	25.7	24.4	- 27.0	2.1	1.6	- 2.6	4.6	3.9	- 5.4	59.2	54.6	- 63.8
GENDER															
MALE	15.8	14.1	- 17.5	27.7	25.7	- 29.6	3.2	2.4	- 4.1	6.0	4.8	- 7.2	56.8	50.6	- 63.1
FEMALE	12.1	10.6	- 13.6	24.1	22.3	- 25.9	1.0	0.5	- 1.6	3.1	2.3	- 4.0	63.3	57.1	- 69.5
RACE-ETHNICITY*															
WHITE	15.0	13.5	- 16.4	27.8	26.3	- 29.4	1.9	1.4	- 2.4	4.9	4.0	- 5.9	60.2	55.2	- 65.3
BLACK	12.5	8.4	- 16.5	16.6	11.0	- 22.2	†			†			59.1	55.6	- 62.5
HISPANIC	10.8	7.9	- 13.7	19.2	15.3	- 23.1	†			3.5	1.7	- 5.3	64.8	64.8	- 64.8
ASIAN	†			11.1	5.0	- 17.2	†			†			52.2	52.2	- 52.2
DISABILITY¶															
DISABILITY	24.1	20.9	- 27.4	31.5	28.0	- 35.0	3.1	1.7	- 4.6	9.7	7.1	- 12.2	63.1	55.4	- 70.8
NO DISABILITY	11.4	10.2	- 12.6	24.3	22.8	- 25.7	1.9	1.4	- 2.4	3.4	2.7	- 4.2	58.9	53.5	- 64.3
EDUCATION															
< HIGH SCHOOL	24.0	18.0	- 30.0	28.2	22.3	- 34.1	†			9.8	5.8	- 13.8	51.0	49.8	- 52.3
HIGH SCHOOL	22.0	19.2	- 24.7	27.8	24.8	- 30.8	2.9	1.8	- 3.9	6.8	4.9	- 8.6	59.4	52.5	- 66.4
COLLEGE 1–3 YRS	16.0	13.6	- 18.5	29.8	26.9	- 32.7	1.4	0.7	- 2.0	5.2	3.6	- 6.7	65.1	64.6	- 65.6
COLLEGE 4+ YRS	5.6	4.7	- 6.5	21.8	20.2	- 23.3	1.9	1.1	- 2.8	1.9	1.1	- 2.6	59.3	50.9	- 67.7
HOUSEHOLD INCOME															
<\$25,000	23.5	19.3	- 27.6	25.7	21.1	- 30.2	†			6.3	3.8	- 8.8	65.9	56.4	- 75.4
\$25,000–34,999	16.1	11.8	- 20.3	27.5	21.8	- 33.1	†			7.7	4.2	- 11.2	67.1	66.6	- 67.5
\$35,000–49,999	15.3	11.6	- 19.1	29.0	24.8	- 33.3	†			4.0	2.2	- 5.7	54.3	52.8	- 55.7
\$50,000–74,999	16.8	12.8	- 20.8	27.7	23.9	- 31.6	†			5.1	2.7	- 7.6	†		
\$75,000+	8.4	6.9	- 10.0	26.2	24.1	- 28.2	1.9	1.0	- 2.9	2.8	1.8	- 3.8	55.2	54.5	- 56.0

* White, Black, and Asian race categories refer to non-Hispanic
† Insufficient data
¶ See p 67 for definition of disability

AGE-ADJUSTED PERCENTAGES FOR SELECTED TOPICS (CONTINUED)

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016															
	NO SMOKING IN HOME			BINGE DRINKING			HEAVY DRINKING			OVERWEIGHT (BMI≥25.0)			OBESE (BMI≥30.0)		
	%	95% CI		%	95% CI		%	95% CI		%	95% CI		%	95% CI	
OVERALL	82.0	80.0	- 84.1	19.2	17.9	- 20.5	7.8	6.9	- 8.7	59.8	58.2	- 61.4	23.8	22.4	- 25.3
GENDER															
MALE	79.7	76.6	- 82.7	23.6	21.6	- 25.5	8.1	6.8	- 9.4	68.3	66.2	- 70.4	25.8	23.8	- 27.8
FEMALE	84.0	81.3	- 86.8	15.1	13.4	- 16.8	7.4	6.2	- 8.6	51.2	48.8	- 53.6	20.6	18.7	- 22.5
RACE-ETHNICITY*															
WHITE	81.4	79.0	- 83.9	21.8	20.2	- 23.5	8.7	7.6	- 9.8	59.0	57.2	- 60.8	22.1	20.6	- 23.7
BLACK	75.4	64.4	- 86.4	14.4	9.3	- 19.5	†			67.9	61.4	- 74.4	35.9	28.7	- 43.2
HISPANIC	86.5	80.7	- 92.4	12.9	9.9	- 15.9	5.9	3.5	- 8.4	65.1	60.2	- 70.1	27.8	23.5	- 32.0
ASIAN	78.3	70.1	- 86.5	9.3	5.8	- 12.9	†			48.1	39.0	- 57.2	7.3	3.3	- 11.4
DISABILITY [¶]															
DISABILITY	76.5	71.1	- 81.9	19.4	16.0	- 22.8	10.1	7.4	- 12.8	68.0	64.2	- 71.7	34.8	30.9	- 38.6
NO DISABILITY	83.7	81.5	- 85.9	19.2	17.8	- 20.7	7.4	6.5	- 8.3	57.5	55.7	- 59.3	20.8	19.3	- 22.3
EDUCATION															
< HIGH SCHOOL	†			14.4	9.0	- 19.7	7.4	3.3	- 11.4	65.4	58.5	- 72.4	31.3	25.0	- 37.6
HIGH SCHOOL	75.9	71.3	- 80.6	18.9	16.0	- 21.8	8.2	6.3	- 10.2	64.9	61.6	- 68.2	28.3	25.2	- 31.5
COLLEGE 1–3 YRS	79.9	75.8	- 84.1	20.8	17.9	- 23.6	8.3	6.4	- 10.2	62.4	59.2	- 65.7	24.7	21.9	- 27.5
COLLEGE 4+ YRS	90.1	88.1	- 92.1	20.2	18.3	- 22.1	7.5	6.3	- 8.7	53.6	51.4	- 55.7	17.7	16.0	- 19.4
HOUSEHOLD INCOME															
<\$25,000	72.3	65.2	- 79.3	13.3	10.1	- 16.4	4.7	2.8	- 6.6	61.8	57.0	- 66.6	31.1	26.5	- 35.6
\$25,000–34,999	74.9	67.2	- 82.5	12.2	8.1	- 16.4	4.6	2.3	- 7.0	58.3	51.6	- 65.0	25.8	20.1	- 31.5
\$35,000–49,999	81.7	81.0	- 82.3	20.8	16.8	- 24.8	12.0	8.6	- 15.3	63.6	58.8	- 68.4	29.1	24.5	- 33.8
\$50,000–74,999	85.7	80.6	- 90.9	23.0	18.5	- 27.5	9.3	6.2	- 12.5	62.0	57.1	- 66.9	24.2	20.2	- 28.3
\$75,000+	89.7	86.9	- 92.4	22.3	20.0	- 24.5	9.1	7.5	- 10.8	59.3	56.7	- 61.8	19.4	17.3	- 21.5

* White, Black, and Asian race categories refer to non-Hispanic
 † Insufficient data
 ¶ See p 67 for definition of disability

AGE-ADJUSTED PERCENTAGES FOR SELECTED TOPICS (CONTINUED)

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016															
	ANY PHYSICAL ACTIVITY IN PAST MONTH			RECEIVED 3 SHOTS HBV VACCINE			PRE-DIABETES			DIABETES			EVER HAD ASTHMA		
	%	95% CI		%	95% CI		%	95% CI		%	95% CI		%	95% CI	
OVERALL	80.6	79.3	- 81.9	40.0	37.0	- 42.9	8.2	6.8	- 9.6	8.3	7.5	- 9.1	15.3	14.1	- 16.4
GENDER															
MALE	81.9	80.1	- 83.6	32.4	28.4	- 36.4	7.8	6.2	- 9.3	9.1	7.9	- 10.2	11.9	10.5	- 13.3
FEMALE	79.3	77.4	- 81.1	47.4	43.3	- 51.4	8.5	6.4	- 10.6	7.6	6.6	- 8.6	18.9	17.1	- 20.7
RACE-ETHNICITY*															
WHITE	83.6	82.3	- 84.9	39.9	36.5	- 43.3	6.2	5.1	- 7.4	7.2	6.4	- 7.9	15.5	14.2	- 16.8
BLACK	75.8	69.6	- 81.9	45.3	33.1	- 57.4	†			16.1	11.0	- 21.2	19.2	13.1	- 25.2
HISPANIC	67.5	62.8	- 72.2	39.1	29.9	- 48.4	15.4	9.8	- 21.0	12.1	9.0	- 15.3	16.5	13.1	- 20.0
ASIAN	76.5	68.2	- 84.9	59.7	51.0	- 68.4	12.0	11.3	- 12.6	11.6	4.9	- 18.3	14.4	6.0	- 22.8
DISABILITY [¶]															
DISABILITY	68.0	64.5	- 71.5	35.8	28.6	- 42.9	15.4	10.3	- 20.6	14.3	12.0	- 16.6	24.4	21.1	- 27.7
NO DISABILITY	84.7	83.3	- 86.1	41.6	38.4	- 44.9	6.5	5.3	- 7.7	6.2	5.4	- 6.9	12.8	11.6	- 14.0
EDUCATION															
< HIGH SCHOOL	64.5	58.2	- 70.7	23.5	12.5	- 34.5	12.6	11.7	- 13.5	14.6	10.9	- 18.2	18.2	13.3	- 23.2
HIGH SCHOOL	72.0	69.1	- 75.0	33.1	27.1	- 39.0	8.3	5.9	- 10.7	9.1	7.6	- 10.5	14.1	11.7	- 16.4
COLLEGE 1–3 YRS	79.9	77.3	- 82.5	40.1	34.3	- 46.0	10.7	7.7	- 13.7	8.9	7.3	- 10.5	15.7	13.4	- 18.1
COLLEGE 4+ YRS	90.3	89.0	- 91.6	45.8	41.6	- 50.1	5.1	3.9	- 6.2	5.7	4.9	- 6.6	14.7	13.1	- 16.3
HOUSEHOLD INCOME															
<\$25,000	68.8	64.6	- 73.1	32.4	23.7	- 41.0	13.9	9.2	- 18.5	13.0	10.7	- 15.4	17.0	13.7	- 20.3
\$25,000–34,999	69.0	62.8	- 75.2	40.1	29.4	- 50.9	6.4	5.5	- 7.3	8.9	6.0	- 11.7	17.2	11.7	- 22.7
\$35,000–49,999	77.8	73.6	- 82.0	47.6	46.8	- 48.3	9.7	9.6	- 9.9	11.3	7.8	- 14.8	18.5	14.2	- 22.9
\$50,000–74,999	85.3	82.5	- 88.1	41.6	40.8	- 42.3	7.2	7.1	- 7.3	8.6	6.5	- 10.7	15.1	11.4	- 18.8
\$75,000+	89.0	87.3	- 90.7	45.3	45.0	- 45.7	6.3	4.4	- 8.1	5.8	4.6	- 7.0	14.6	12.7	- 16.5

* White, Black, and Asian race categories refer to non-Hispanic
† Insufficient data
¶ See p 67 for definition of disability

AGE-ADJUSTED PERCENTAGES FOR SELECTED TOPICS (CONTINUED)

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016															
	CURRENTLY HAVE ASTHMA			EVER DIAGNOSED WITH COPD			EVER DIAGNOSED WITH CANCER			EVER DIAGNOSED WITH DEPRESSION			SELF-IDENTIFIED AS HOMOSEXUAL, BISEXUAL, OR OTHER		
	%	95% CI		%	95% CI		%	95% CI		%	95% CI		%	95% CI	
OVERALL	10.3	9.4	- 11.3	5.0	4.4	- 5.7	10.2	9.4	- 10.9	19.3	18.0	- 20.6	7.3	6.3	- 8.3
GENDER															
MALE	6.2	5.2	- 7.2	4.0	3.3	- 4.8	9.2	8.2	- 10.2	15.3	13.6	- 16.9	6.2	5.0	- 7.4
FEMALE	14.3	12.7	- 15.9	5.8	4.8	- 6.7	11.0	9.9	- 12.2	22.9	21.0	- 24.8	8.4	6.9	- 10.0
RACE-ETHNICITY*															
WHITE	10.2	9.1	- 11.3	4.9	4.3	- 5.6	11.2	10.4	- 12.1	20.0	18.5	- 21.5	8.1	6.8	- 9.3
BLACK	15.6	9.7	- 21.5	†			†			17.2	12.1	- 22.4	7.6	3.4	- 11.8
HISPANIC	11.4	8.4	- 14.3	4.9	3.1	- 6.7	5.1	2.4	- 7.9	23.0	19.1	- 27.0	5.1	3.2	- 7.1
ASIAN	†			†			4.8	3.6	- 6.0	11.4	4.7	- 18.1	4.2	4.1	- 4.2
DISABILITY [¶]															
DISABILITY	17.7	14.9	- 20.6	12.6	10.3	- 15.0	12.6	10.5	- 14.7	48.3	44.5	- 52.1	12.5	9.3	- 15.6
NO DISABILITY	8.3	7.3	- 9.3	2.5	2.0	- 3.0	9.6	8.8	- 10.5	11.8	10.7	- 13.0	6.1	5.2	- 7.1
EDUCATION															
< HIGH SCHOOL	14.1	9.6	- 18.7	9.5	6.1	- 12.9	5.2	3.4	- 7.0	30.4	24.4	- 36.4	9.5	4.2	- 14.8
HIGH SCHOOL	9.6	7.7	- 11.5	6.9	5.6	- 8.2	10.3	8.6	- 12.0	21.6	18.8	- 24.3	7.2	5.2	- 9.1
COLLEGE 1–3 YRS	9.8	8.0	- 11.6	5.2	3.9	- 6.4	11.3	9.7	- 13.0	20.5	17.8	- 23.1	6.0	4.4	- 7.6
COLLEGE 4+ YRS	9.6	8.2	- 10.9	2.2	1.7	- 2.8	10.6	9.6	- 11.7	14.9	13.2	- 16.6	7.1	5.7	- 8.6
HOUSEHOLD INCOME															
<\$25,000	11.7	9.0	- 14.5	9.7	7.4	- 12.1	8.1	6.2	- 9.9	34.9	30.4	- 39.4	8.7	5.4	- 12.0
\$25,000–34,999	12.7	7.5	- 17.9	5.5	3.2	- 7.8	8.8	6.2	- 11.4	22.1	16.7	- 27.4	9.4	5.6	- 13.2
\$35,000–49,999	10.9	7.4	- 14.5	5.2	3.5	- 7.0	10.7	7.7	- 13.7	17.9	14.2	- 21.5	5.8	3.5	- 8.1
\$50,000–74,999	10.0	7.0	- 13.1	4.5	2.9	- 6.1	12.7	10.0	- 15.4	16.1	12.4	- 19.8	7.5	4.5	- 10.6
\$75,000+	9.2	7.6	- 10.7	2.5	1.8	- 3.3	10.1	8.9	- 11.4	14.7	12.9	- 16.6	6.2	4.6	- 7.8

* White, Black, and Asian race categories refer to non-Hispanic
 † Insufficient data
 ¶ See p 67 for definition of disability

AGE-ADJUSTED PERCENTAGES FOR SELECTED TOPICS (CONTINUED)

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016															
	EVER TESTED FOR HIV - AGES 18-64			TESTED FOR HIV IN PAST YEAR - AGES 18-64			SEXUAL VIOLENCE - WOMEN			DRINKING AND DRIVING			ALWAYS USE A SEATBELT		
	%	95% CI		%	95% CI		%	95% CI		%	95% CI		%	95% CI	
OVERALL	47.8	45.8	- 49.7	10.7	9.4	- 12.0	17.6	14.6	- 20.5	2.9	2.3	- 3.5	81.1	79.7	- 82.4
GENDER															
MALE	44.6	41.9	- 47.2	10.9	9.0	- 12.8	<i>n/a</i>		-	4.0	3.0	- 5.0	76.5	74.5	- 78.5
FEMALE	51.0	48.3	- 53.7	10.7	8.9	- 12.5	17.6	14.7	- 20.5	1.9	1.3	- 2.6	85.4	83.6	- 87.1
RACE-ETHNICITY*															
WHITE	46.3	44.1	- 48.5	8.9	7.5	- 10.3	18.4	14.9	- 22.0	2.8	2.2	- 3.5	80.8	79.2	- 82.4
BLACK	67.1	59.2	- 74.9	20.4	13.6	- 27.2	18.0	17.0	- 19.0	†			82.6	77.3	- 87.8
HISPANIC	59.8	59.2	- 60.3	18.8	18.5	- 19.1	12.0	11.3	- 12.6	2.8	1.2	- 4.4	84.2	81.0	- 87.5
ASIAN	28.0	27.5	- 28.5	7.9	7.9	- 8.0	6.6	6.6	- 6.6	†			87.0	82.3	- 91.7
DISABILITY [¶]															
DISABILITY	59.4	54.9	- 63.9	16.7	12.8	- 20.6	33.2	25.0	- 41.4	3.0	1.5	- 4.6	73.4	69.9	- 76.9
NO DISABILITY	45.0	42.9	- 47.1	9.4	8.1	- 10.8	13.6	10.8	- 16.4	2.9	2.3	- 3.5	82.7	81.3	- 84.1
EDUCATION															
< HIGH SCHOOL	49.6	40.9	- 58.3	13.9	7.5	- 20.3	15.4	10.6	- 20.3	†			77.0	70.8	- 83.1
HIGH SCHOOL	47.0	42.8	- 51.2	9.8	7.2	- 12.5	18.5	17.6	- 19.4	2.5	1.2	- 3.7	74.8	71.9	- 77.8
COLLEGE 1-3 YRS	49.4	45.4	- 53.4	12.6	9.8	- 15.4	17.3	12.1	- 22.5	3.7	2.3	- 5.2	76.3	73.3	- 79.2
COLLEGE 4+ YRS	47.9	45.3	- 50.6	9.2	7.6	- 10.9	17.1	12.7	- 21.5	2.7	2.0	- 3.4	88.2	86.5	- 89.8
HOUSEHOLD INCOME															
<\$25,000	59.3	53.3	- 65.3	20.5	15.1	- 26.0	22.5	12.9	- 32.0	†			77.8	73.7	- 81.8
\$25,000-34,999	52.9	44.4	- 61.3	14.7	14.6	- 14.8	21.0	20.8	- 21.2	†			77.2	71.6	- 82.9
\$35,000-49,999	49.4	48.9	- 50.0	12.9	12.0	- 13.8	26.9	25.7	- 28.0	†			76.5	72.2	- 80.8
\$50,000-74,999	47.1	41.1	- 53.0	11.3	7.6	- 15.0	11.9	11.9	- 11.9	4.5	2.2	- 6.9	77.3	73.0	- 81.6
\$75,000+	44.7	41.8	- 47.7	8.5	6.5	- 10.4	15.2	11.0	- 19.4	3.4	2.3	- 4.5	84.7	82.6	- 86.9

* White, Black, and Asian race categories refer to non-Hispanic

† Insufficient data

¶ See p 67 for definition of disability

AGE-ADJUSTED PERCENTAGES FOR SELECTED TOPICS (CONTINUED)

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016														
	EVER PRESCRIBED OPIATE			NON-MEDICAL USE OF OPIATE IN PAST YEAR				EVER PRESCRIBED MARIJUANA			NON-MEDICAL USE OF MARIJUANA IN PAST YEAR			
	%	95% CI		%	95% CI			%	95% CI		%	95% CI		
OVERALL	31.9	29.4	- 34.4	2.6	1.8	- 3.5	1.9	1.1	- 2.6	13.0	11.0	- 15.1		
GENDER														
MALE	30.0	26.6	- 33.4	3.9	2.4	- 5.3	2.1	1.0	- 3.1	16.6	13.7	- 19.6		
FEMALE	33.7	30.0	- 37.3	1.5	0.8	- 2.2	†			9.6	6.8	- 12.4		
RACE-ETHNICITY*														
WHITE	35.4	32.5	- 38.4	2.5	1.5	- 3.4	2.2	1.2	- 3.2	14.1	11.8	- 16.5		
BLACK	26.1	15.6	- 36.6	†			†					-		
HISPANIC	14.5	8.4	- 20.6	†			†			6.7	3.2	- 10.1		
ASIAN	15.7	7.1	- 24.4	1.0	0.9	- 1.1	1.2	1.1	- 1.2	2.5	2.5	- 2.5		
DISABILITY [¶]														
DISABILITY	45.8	39.3	- 52.3	5.3	2.8	- 7.8	5.7	2.5	- 8.9	23.3	16.9	- 29.7		
NO DISABILITY	27.9	25.3	- 30.5	1.7	1.0	- 2.4	0.9	0.4	- 1.3	10.6	8.8	- 12.5		
EDUCATION														
< HIGH SCHOOL	†			†			†							
HIGH SCHOOL	31.5	26.3	- 36.8	4.4	2.0	- 6.8	4.2	1.8	- 6.6	14.5	10.6	- 18.5		
COLLEGE 1–3 YRS	36.3	30.9	- 41.7	2.5	1.1	- 3.9	†			14.8	11.0	- 18.7		
COLLEGE 4+ YRS	31.5	28.3	- 34.7	1.2	0.6	- 1.7	†			9.9	7.4	- 12.3		
HOUSEHOLD INCOME														
<\$25,000	32.7	25.3	- 40.1	7.2	3.2	- 11.1	†			18.6	13.0	- 24.2		
\$25,000–34,999	37.9	28.0	- 47.8	†			†			11.9	5.6	- 18.2		
\$35,000–49,999	33.7	33.2	- 34.1	3.1	2.9	- 3.4	3.8	3.7	- 3.8	21.8	21.4	- 22.1		
\$50,000–74,999	38.2	30.1	- 46.3	†			†			13.9	7.8	- 20.0		
\$75,000+	33.8	30.0	- 37.7	†			†			9.9	7.0	- 12.9		

* White, Black, and Asian race categories refer to non-Hispanic
† Insufficient data
¶ See p 67 for definition of disability

MASSACHUSETTS AND NATIONAL ESTIMATES

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016			
VARIABLES	MA %	US MEDIAN [¶] %	US RANGE [¶] %
OVERALL HEALTH MEASURES			
FAIR OR POOR HEALTH	14.1	16.7	11.6 – 34.3
15+ POOR MENTAL HEALTH DAYS	11.3	11.2	7.8 – 15.9
15+ DAYS IN POOR PHYSICAL HEALTH	9.7	10.9	7.2 – 17.1
HEALTH CARE ACCESS AND UTILIZATION			
HAVE PERSONAL HEALTH CARE PROVIDER	88.9	78.2	67.0 – 88.9
COULD NOT SEE DOCTOR DUE TO COST	8.8	12.1	7.4 – 21.6
CHECKUP IN PAST YEAR	78.7	70.8	58.8 – 81.7
DENTAL VISIT IN THE PAST YEAR	73.7	66.3	50.8 – 77.8
6 OR MORE TEETH MISSING	13.6	15.0	8.8 – 29.3
RISK FACTORS AND PREVENTIVE BEHAVIORS			
CURRENT SMOKER	13.6	17.0	6.6 – 25.1
FORMER SMOKER	26.7	24.9	10.1 – 32.0
USE SMOKELESS TOBACCO	2.0	4.0	1.1 – 9.8
QUIT ATTEMPT AMONG CURRENT SMOKERS	59.9	58.7	49.9 – 75.7
BINGE DRINKING	17.8	16.9	11.3 – 25.5
HEAVY DRINKING	7.5	6.5	3.5 – 11.1
OVERWEIGHT (BMI \geq 25.0)	60.2	65.3	53.4 – 71.3
OBESITY (BMI \geq 30.0)	23.6	30.1	22.3 – 37.7
PHYSICAL ACTIVITY IN PAST MONTH	80.0	76.7	58.3 – 84.3
FLU VACCINE IN PAST YEAR (50-64)	45.1	40.7	16.6 – 49.1
FLU VACCINE IN PAST YEAR (65+)	57.1	58.2	28.0 – 67.5
EVER HAD PNEUMONIA VACCINATION (65+)	76.4	73.4	30.3 – 79.7
CHRONIC HEALTH CONDITIONS			
DIABETES	9.3	10.5	6.6 – 15.3
EVER HAD ASTHMA	15.3	14.0	9.3 – 17.5
CURRENTLY HAVE ASTHMA	10.3	9.1	5.1 – 12.2
COPD	5.4	6.2	3.2 – 13.9
CANCER	11.4	11.6	3.3 – 14.6
MYOCARDIAL INFARCTION (35+)	5.7	6.0	3.1 – 10.0
ANGINA (35+)	5.5	5.7	2.5 – 10.7
STROKE (35+)	3.5	4.1	1.7 – 6.7
CANCER SCREENING			
MET RECOMMENDATION FOR COLORECTAL CANCER SCREENING (50-74)	76.3	67.1	43.8 – 76.3
MAMMOGRAPHY IN PAST 2 YEARS (50-74)	86.3	77.5	64.1 – 86.3
PAP SMEAR IN PAST THREE YEARS (21-65)	84.1	79.8	65.7 – 85.7
OTHER TOPICS			
EVER TESTED FOR HIV (18-64)	45.6	41.9	25.6 – 76.3
DRINKING & DRIVING	2.8	2.1	0.8 – 11.4
UNINTENTIONAL FALLS (65+)	29.0	29.9	22.7 – 37.5
INJURY FROM UNINTENTIONAL FALL (65+)	11.3	11.0	5.8 – 15.7
SEATBELT USE	81.3	85.2	64.2 – 93.4

[¶] The US median percentage and range are based on data for all 50 states, District of Columbia, and Puerto Rico.

ITEM-SPECIFIC NON-RESPONSE

MASSACHUSETTS BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2016	
VARIABLES	PERCENTAGE OF NON-RESPONSE* %
OVERALL HEALTH MEASURES	
FAIR OR POOR HEALTH	0.30
15+ DAYS IN POOR PHYSICAL HEALTH	3.02
15+ POOR MENTAL HEALTH DAYS	2.55
DISABILITY	5.26
NO HEALTH INSURANCE (AGES 18-64)	1.04
HAVE PERSONAL HEALTH CARE PROVIDER	0.43
COULD NOT SEE DOCTOR DUE TO COST	0.31
HAD CHECKUP IN PAST YEAR	1.63
DENTAL VISIT IN THE PAST YEAR	1.68
6 OR MORE TEETH MISSING	4.17
CURRENT SMOKER	5.40
FORMER SMOKER	5.40
QUIT ATTEMPT AMONG CURRENT SMOKERS	0.76
E-CIGARETTE USE	5.09
SMOKELESS TOBACCO USE	4.99
BINGE DRINKING	7.78
HEAVY DRINKING	8.12
OVERWEIGHT	11.11
OBESITY	11.11
PHYSICAL ACTIVITY	0.26
FLU VACCINE IN THE PAST YEAR (50-64)	6.66
FLU VACCINE IN THE PAST YEAR (65+)	5.75
EVER HAD PNEUMONIA VACCINE (65+)	9.62
HPV VACCINATION	24.8
HEPATITIS B VACCINE	34.5
EVER HAD SHINGLES VACCINE	14.1
PRE-DIABETES	0.61
DIABETES	0.24
EVER HAD ASTHMA	0.36
CURRENTLY HAVE ASTHMA	0.70
HEART ATTACK (35+)	0.64
ANGINA OR CORONARY HEART DISEASE (35+)	0.93
STROKE (35+)	0.39
EVER CANCER DIAGNOSIS	0.50
CHRONIC OBSTRUCTIVE PULMONARY DISEASE	0.68
EVER DIAGNOSED WITH DEPRESSION	0.52
MET RECOMMENDATION FOR COLORECTAL CANCER SCREENING (50-74)	13.8
MAMMOGRAPHY IN PAST 2 YRS (50-74)	9.0
PAP IN PREVIOUS THREE YEARS (21-65)	2.5
EVER TESTED FOR HIV (18-64)	13.65
DRINKING & DRIVING	10.89
UNINTENTIONAL FALLS (65+)	7.32
SEATBELT USE	8.14
<p>* The item-specific unweighted non-response % was calculated using the number of respondents who had finished the demographic section of the 2016 BRFSS as the denominator and those who reported don't know or refused as the numerator.</p>	

TERMS, DEFINITIONS AND STATISTICAL METHODOLOGY

This report presents data from the **combined sample** - both landline and cell phone respondents. The combined sample contained 8,415 respondents.

- The survey design included two 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 1,951 landline respondents and 1,797 cell phone respondents,
 - Split 2 contained 2,011 landline respondents and 2,086 cell phone 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 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 US population 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:

- a) Estimates and their 95% confidence intervals are not presented in the tables if the underlying sample size is less than 50 respondents.
- b) 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.¹

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 deaf or do you have serious difficulty hearing?
2. Are you blind or do you have serious difficulty seeing, even when wearing glasses?
3. Because of a physical, mental, or emotional condition, do you have serious difficulty concentrating, remembering or making decisions?
4. Do you have serious difficulty walking or climbing stairs?
5. Do you have difficulty dressing or bathing?
6. Because of a physical, mental or emotional condition, do you have difficulty doing errands alone such as visiting a doctor’s office or shopping?

Note: The definition of disability has changed from prior years’ reports

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.

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.