

**Estimates for Risk Factors and Health Indicators
State of Michigan**

Selected Tables

**Behavioral Risk Factor Survey
2009**

Division of Genomics, Perinatal Health, and Chronic Disease Epidemiology
Bureau of Epidemiology
Michigan Department of Community Health

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Introduction

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

For the 2009 Michigan BRFSS, data were collected quarterly by IPPSR. The sample of telephone numbers that were utilized for data collection was selected using a list-assisted, random-digit-dialed methodology with a disproportionate stratification based on phone bank density, and whether or not the phone numbers were directory listed. In addition, census tracts with a high density of African Americans in the population were oversampled.

In 2009, the total sample size of completed interviews for the core survey was 9,259. Due to variability in response rates to individual questions and differences in specific sub-populations of interest for particular questions, not all estimates are based on a total sample size of 9,259. As a result of this, item-by-item sample sizes and population descriptions are included within each table.

State-specific, population-based prevalence estimates and asymmetric confidence intervals were calculated for indicators of health status, health risk behaviors, clinical preventive practices, and chronic conditions among the adult population in Michigan. These estimates were weighted to adjust for the probabilities of selection and a post-stratification weighting factor that adjusted for the distribution of Michigan adults by age, sex, and race/ethnicity at the state level. Respondents who refused to answer a question were removed from the denominator during the analysis of such questions. Those who responded "Don't Know/Not Sure" were also excluded from the denominator unless they accounted for more than one percent of the total responses. Analyses that included "Don't Know/Not Sure" in the denominator are indicated as such within the table footnotes. All analyses were performed in SAS-Callable SUDAAN®, a statistical computing program that was designed for complex sample surveys.

Table 1: Health Status 2009 Michigan BRFSS		
Demographic Characteristics	General Health, Fair or Poor^a	
	%	95% Confidence Interval
Total	15.0	(14.1-16.0)
Age		
18 – 24	7.7	(5.0-11.5)
25 – 34	11.1	(8.2-14.8)
35 – 44	9.6	(7.8-11.7)
45 – 54	14.4	(12.7-16.4)
55 – 64	21.0	(19.1-23.1)
65 – 74	22.0	(19.8-24.4)
75 +	29.0	(26.4-31.8)
Gender		
Male	14.3	(12.9-15.9)
Female	15.7	(14.5-17.0)
Race/Ethnicity		
White non-Hispanic	13.7	(12.7-14.7)
Black non-Hispanic	21.6	(18.3-25.2)
Other non-Hispanic	15.7	(11.7-20.7)
Hispanic	18.9	(12.4-27.8)
Education		
Less than high school	36.7	(31.4-42.4)
High school graduate	19.4	(17.6-21.3)
Some college	14.4	(12.8-16.2)
College graduate	7.3	(6.1-8.8)
Household Income		
< \$20,000	32.5	(29.3-36.0)
\$20,000 - \$34,999	19.8	(17.5-22.3)
\$35,000 - \$49,999	15.1	(12.4-18.2)
\$50,000 - \$74,999	10.4	(8.4-12.8)
\$75,000 +	4.8	(3.6-6.4)

^a Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 9,231)

**Table 2: Health Status on at Least 14 Days in the Past Month
2009 Michigan BRFSS**

Demographic Characteristics	Poor Physical Health ^a		Poor Mental Health ^b		Activity Limitation ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	10.8	(10.0-11.7)	11.2	(10.3-12.2)	6.8	(6.2-7.5)
Age						
18 – 24	6.2	(3.8-9.8)	10.8	(7.6-15.1)	2.7	(1.3-5.5)
25 – 34	9.1	(6.6-12.5)	13.9	(10.9-17.7)	5.5	(3.4-8.6)
35 – 44	8.1	(6.5-10.0)	12.1	(10.1-14.4)	5.1	(3.9-6.7)
45 – 54	10.6	(9.0-12.3)	12.7	(11.0-14.6)	7.9	(6.6-9.5)
55 – 64	15.4	(13.7-17.2)	11.8	(10.4-13.4)	10.4	(9.0-11.9)
65 – 74	12.7	(11.0-14.7)	5.9	(4.6-7.4)	7.0	(5.7-8.5)
75 +	17.1	(14.9-19.6)	6.0	(4.6-7.7)	9.3	(7.7-11.3)
Gender						
Male	9.5	(8.3-10.8)	9.2	(8.0-10.6)	5.8	(4.8-6.8)
Female	12.1	(11.0-13.2)	13.1	(11.9-14.5)	7.8	(6.9-8.7)
Race/Ethnicity						
White non-Hispanic	10.5	(9.6-11.4)	10.7	(9.7-11.8)	6.3	(5.6-7.1)
Black non-Hispanic	12.3	(10.1-14.8)	12.5	(9.9-15.6)	7.6	(6.1-9.5)
Other non-Hispanic	13.7	(9.5-19.2)	14.5	(10.1-20.5)	10.4	(6.6-16.0)
Hispanic	7.9	(4.5-13.4)	14.2	(8.8-22.3)	7.4	(3.7-14.2)
Education						
Less than high school	25.2	(20.4-30.7)	19.5	(14.9-25.1)	18.7	(14.4-24.0)
High school graduate	12.7	(11.2-14.4)	12.8	(11.1-14.8)	8.4	(7.2-9.9)
Some college	10.9	(9.5-12.6)	12.7	(11.0-14.5)	6.5	(5.4-7.9)
College graduate	6.3	(5.2-7.5)	6.8	(5.7-8.2)	3.3	(2.6-4.1)
Household Income						
< \$20,000	25.0	(21.9-28.3)	20.9	(18.0-24.2)	18.2	(15.7-21.0)
\$20,000 - \$34,999	13.7	(11.7-16.1)	14.0	(11.6-16.9)	8.5	(6.9-10.5)
\$35,000 - \$49,999	9.9	(7.8-12.6)	10.1	(8.1-12.5)	6.0	(4.4-8.3)
\$50,000 - \$74,999	6.5	(5.1-8.2)	8.9	(7.1-11.1)	3.5	(2.6-4.6)
\$75,000 +	4.4	(3.2-5.9)	6.5	(5.1-8.3)	2.4	(1.5-3.7)

^a Among all adults, the proportion who reported 14 or more days of poor physical health, which includes physical illness and injury, during the past 30 days. (N = 9,041)

^b Among all adults, the proportion who reported 14 or more days of poor mental health, which includes stress, depression, and problems with emotions, during the past 30 days. (N = 9,106)

^c Among all adults, the proportion who reported 14 or more days in the past 30 days in which either poor physical health or poor mental health kept respondents from doing their usual activities, such as self-care, work, and recreation. (N = 9,143)

**Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations
2009 Michigan BRFSS**

Demographic Characteristics	Poor Physical Health ^a		Poor Mental Health ^b		Activity Limitation ^c	
	Mean # of Days	95% Confidence Interval	Mean # of Days	95% Confidence Interval	Mean # of Days	95% Confidence Interval
Total	3.6	(3.4-3.8)	3.7	(3.5-4.0)	2.3	(2.1-2.5)
Age						
18 - 24	2.6	(1.8-3.4)	4.1	(3.1-5.0)	1.6	(1.0-2.2)
25 - 34	3.1	(2.4-3.9)	4.6	(3.8-5.5)	2.0	(1.4-2.6)
35 - 44	2.7	(2.3-3.1)	4.2	(3.6-4.7)	2.0	(1.6-2.3)
45 - 54	3.5	(3.1-3.9)	4.0	(3.6-4.5)	2.5	(2.1-2.8)
55 - 64	4.7	(4.3-5.2)	3.7	(3.4-4.1)	3.1	(2.7-3.5)
65 - 74	4.0	(3.5-4.5)	1.9	(1.6-2.3)	2.1	(1.7-2.4)
75 +	5.1	(4.5-5.7)	1.9	(1.5-2.3)	2.7	(2.2-3.1)
Gender						
Male	3.1	(2.8-3.5)	3.1	(2.7-3.4)	2.0	(1.7-2.2)
Female	4.0	(3.7-4.2)	4.4	(4.0-4.7)	2.6	(2.3-2.8)
Race/Ethnicity						
White non-Hispanic	3.5	(3.3-3.8)	3.6	(3.4-3.9)	2.1	(2.0-2.3)
Black non-Hispanic	3.9	(3.3-4.5)	3.9	(3.3-4.6)	2.5	(2.1-2.9)
Other non-Hispanic	4.1	(3.2-5.0)	4.3	(3.2-5.5)	3.3	(2.2-4.3)
Hispanic	2.5	(1.4-3.5)	4.8	(2.9-6.8)	2.4	(1.2-3.7)
Education						
Less than high school	7.7	(6.3-9.1)	5.6	(4.2-6.9)	5.3	(4.2-6.4)
High school graduate	4.0	(3.6-4.4)	4.0	(3.5-4.5)	2.7	(2.3-3.0)
Some college	3.6	(3.3-4.0)	4.3	(3.9-4.7)	2.3	(2.0-2.6)
College graduate	2.4	(2.1-2.6)	2.6	(2.3-2.9)	1.3	(1.2-1.5)
Household Income						
< \$20,000	7.5	(6.7-8.3)	6.4	(5.7-7.2)	5.5	(4.8-6.2)
\$20,000 - \$34,999	4.3	(3.7-4.8)	4.2	(3.6-4.8)	2.9	(2.4-3.4)
\$35,000 - \$49,999	3.1	(2.6-3.7)	3.7	(3.1-4.3)	2.0	(1.6-2.4)
\$50,000 - \$74,999	2.5	(2.1-3.0)	3.1	(2.7-3.6)	1.4	(1.1-1.6)
\$75,000 +	1.8	(1.5-2.2)	2.6	(2.2-3.0)	1.0	(0.8-1.2)

^a Among all adults, the mean number of days during the past 30 days in which physical health, including illness and injury, was not good. (N = 9,041)

^b Among all adults, the mean number of days during the past 30 days in which mental health, including stress, depression, and problems with emotions, was not good. (N = 9,106)

^c Among all adults, the mean number of days during the past 30 days in which poor physical health or poor mental health kept the respondent from doing usual activities, such as self-care, work, or recreation. (N = 9,143)

Table 4: Life Satisfaction 2009 Michigan BRFSS		
Demographic Characteristics	Dissatisfied or Very Dissatisfied With Life^a	
	%	95% Confidence Interval
Total	6.9	(6.1-7.7)
Age		
18 – 24	6.5	(4.1-10.2)
25 – 34	8.4	(6.0-11.6)
35 – 44	7.7	(6.0-9.8)
45 – 54	7.7	(6.4-9.3)
55 – 64	7.6	(6.4-9.1)
65 – 74	3.3	(2.4-4.6)
75 +	3.0	(2.2-4.1)
Gender		
Male	6.8	(5.7-8.2)
Female	6.9	(6.0-7.9)
Race/Ethnicity		
White non-Hispanic	6.0	(5.2-6.8)
Black non-Hispanic	10.6	(8.3-13.6)
Other non-Hispanic	9.5	(6.0-14.7)
Hispanic	10.0	(5.4-17.6)
Education		
Less than high school	12.6	(8.6-18.2)
High school graduate	7.6	(6.2-9.3)
Some college	8.2	(6.8-9.8)
College graduate	3.9	(3.1-4.9)
Household Income		
< \$20,000	17.1	(14.2-20.3)
\$20,000 - \$34,999	8.2	(6.4-10.4)
\$35,000 - \$49,999	5.9	(4.4-7.7)
\$50,000 - \$74,999	4.5	(3.2-6.2)
\$75,000 +	2.9	(1.9-4.5)
^a Among all adults, the proportion who reported either "Dissatisfied" or "Very Dissatisfied" to the following question: "In general, how satisfied are you with life?" (N = 8,816)		

Table 5: Social and Emotional Support 2009 Michigan BRFSS		
Demographic Characteristics	Rarely or Never Receive the Social and Emotional Support that is Needed^a	
	%	95% Confidence Interval
Total	8.1	(7.2-9.0)
Age		
18 – 24	10.4	(6.5-16.1)
25 – 34	6.1	(4.1-8.8)
35 – 44	5.6	(4.3-7.3)
45 – 54	7.6	(6.3-9.1)
55 – 64	9.2	(7.8-10.8)
65 – 74	7.6	(6.3-9.3)
75 +	12.7	(10.8-14.9)
Gender		
Male	9.9	(8.4-11.6)
Female	6.4	(5.6-7.2)
Race/Ethnicity		
White non-Hispanic	6.6	(5.9-7.4)
Black non-Hispanic	12.1	(9.7-14.9)
Other non-Hispanic	11.7	(7.6-17.5)
Hispanic	19.6	(9.3-36.7)
Education		
Less than high school	18.4	(14.3-23.4)
High school graduate	10.7	(8.9-12.8)
Some college	7.5	(6.1-9.2)
College graduate	4.3	(3.4-5.4)
Household Income		
< \$20,000	16.0	(13.5-18.8)
\$20,000 - \$34,999	10.9	(8.9-13.2)
\$35,000 - \$49,999	6.9	(5.2-9.2)
\$50,000 - \$74,999	3.9	(2.9-5.2)
\$75,000 +	4.3	(3.0-6.2)
^a Among all adults, the proportion who reported either “Rarely” or “Never” to the following question: “How often do you get the social and emotional support you need?” (N = 8,733)		

Table 6: Caregiver Status 2009 Michigan BRFSS		
Demographic Characteristics	Caregiver for Family Member or Friend in Past Month^a	
	%	95% Confidence Interval
Total	25.4	(24.2-26.6)
Age		
18 – 24	17.7	(13.7-22.5)
25 – 34	19.5	(16.1-23.5)
35 – 44	25.6	(22.8-28.6)
45 – 54	32.0	(29.6-34.6)
55 – 64	31.6	(29.4-34.0)
65 – 74	26.4	(24.0-29.1)
75 +	18.7	(16.4-21.1)
Gender		
Male	21.3	(19.6-23.2)
Female	29.1	(27.6-30.8)
Race/Ethnicity		
White non-Hispanic	24.9	(23.6-26.2)
Black non-Hispanic	29.7	(25.9-33.7)
Other non-Hispanic	26.3	(20.5-33.0)
Hispanic	20.2	(13.5-29.0)
Education		
Less than high school	21.7	(17.3-26.8)
High school graduate	25.2	(23.1-27.5)
Some college	26.1	(24.0-28.4)
College graduate	25.6	(23.6-27.7)
Household Income		
< \$20,000	27.9	(24.4-31.7)
\$20,000 - \$34,999	25.0	(22.5-27.7)
\$35,000 - \$49,999	27.6	(24.5-30.9)
\$50,000 - \$74,999	25.6	(22.8-28.6)
\$75,000 +	24.2	(21.9-26.7)
^a Among all adults, the proportion who reported providing regular care or assistance in the past month to a family member or friend who has a health problem, long-term illness, or disability. (N = 9,156)		

Table 7: Disability 2009 Michigan BRFSS						
Demographic Characteristics	Total Disability^a		Any Activity Limitation^b		Used Special Equipment^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	22.1	(21.0-23.2)	20.3	(19.2-21.3)	7.8	(7.2-8.5)
Age						
18 - 24	9.3	(6.4-13.4)	8.8	(6.0-12.9)	2.1	(0.9-5.0)
25 - 34	14.1	(11.1-17.8)	13.3	(10.3-16.9)	3.2	(1.7-6.0)
35 - 44	15.7	(13.5-18.2)	15.1	(13.0-17.6)	3.7	(2.8-5.1)
45 - 54	24.6	(22.4-27.0)	23.5	(21.3-25.9)	7.5	(6.3-9.1)
55 - 64	31.4	(29.1-33.6)	29.3	(27.2-31.6)	11.5	(10.1-13.2)
65 - 74	30.4	(27.8-33.1)	26.3	(23.8-28.9)	12.5	(10.8-14.6)
75 +	39.7	(36.9-42.7)	31.7	(29.0-34.5)	23.1	(20.8-25.7)
Gender						
Male	20.4	(18.7-22.1)	18.4	(16.9-20.1)	7.4	(6.4-8.5)
Female	23.8	(22.4-25.2)	22.0	(20.6-23.4)	8.3	(7.5-9.1)
Race/Ethnicity						
White non-Hispanic	22.4	(21.2-23.7)	20.7	(19.6-22.0)	7.5	(6.8-8.2)
Black non-Hispanic	21.2	(18.3-24.3)	18.5	(15.8-21.6)	10.1	(8.3-12.4)
Other non-Hispanic	21.6	(16.7-27.4)	19.0	(14.6-24.3)	8.4	(5.7-12.3)
Hispanic	15.5	(10.1-22.9)	14.1	(9.1-21.3)	5.4	(2.8-10.3)
Education						
Less than high school	43.0	(37.3-49.0)	37.9	(32.3-43.8)	18.6	(14.5-23.6)
High school graduate	23.9	(22.0-26.0)	21.8	(19.9-23.8)	8.9	(7.8-10.1)
Some college	23.1	(21.1-25.2)	21.3	(19.3-23.4)	8.2	(7.0-9.5)
College graduate	15.7	(14.2-17.3)	14.6	(13.2-16.2)	4.6	(3.9-5.4)
Household Income						
< \$20,000	40.4	(36.8-44.2)	36.7	(33.2-40.4)	19.0	(16.4-21.9)
\$20,000 - \$34,999	27.5	(24.8-30.4)	25.6	(22.9-28.4)	10.5	(8.9-12.4)
\$35,000 - \$49,999	19.2	(16.7-22.0)	17.8	(15.4-20.5)	5.4	(4.2-6.9)
\$50,000 - \$74,999	19.0	(16.5-21.7)	18.2	(15.8-20.9)	4.4	(3.4-5.7)
\$75,000 +	13.1	(11.3-15.2)	12.4	(10.6-14.4)	3.1	(2.2-4.4)

^a Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems, or reported that they required use of special equipment (such as a cane, a wheelchair, a special bed, or a special telephone) due to a health problem. (N = 9,093)

^b Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems. (N = 9,092)

^c Among all adults, the proportion who reported that they required use of special equipment (such as a can, a wheelchair, a special bed, or a special telephone) due to a health problem. (N = 9,128)

**Table 8: Weight Status
2009 Michigan BRFSS**

Demographic Characteristics	Obese ^a		Overweight ^b		Not Overweight or Obese ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	30.9	(29.6-32.3)	35.7	(34.3-37.1)	33.4	(32.0-34.9)
Age						
18 - 24	16.6	(12.6-21.7)	23.3	(18.4-29.0)	60.1	(53.8-66.0)
25 - 34	32.3	(27.8-37.2)	34.3	(29.7-39.3)	33.4	(29.0-38.1)
35 - 44	34.1	(30.9-37.5)	34.7	(31.5-38.1)	31.2	(28.2-34.3)
45 - 54	33.6	(31.1-36.2)	38.5	(35.9-41.2)	27.9	(25.6-30.4)
55 - 64	36.9	(34.5-39.4)	40.8	(38.4-43.4)	22.2	(20.3-24.3)
65 - 74	34.8	(32.1-37.6)	39.7	(36.8-42.5)	25.5	(23.2-28.1)
75 +	21.9	(19.4-24.6)	38.9	(36.1-41.9)	39.2	(36.3-42.1)
Gender						
Male	30.8	(28.7-33.0)	42.0	(39.8-44.3)	27.2	(25.0-29.4)
Female	31.0	(29.4-32.7)	29.3	(27.7-31.0)	39.6	(37.8-41.5)
Race/Ethnicity						
White non-Hispanic	28.7	(27.3-30.1)	36.7	(35.2-38.3)	34.5	(33.0-36.1)
Black non-Hispanic	41.6	(37.2-46.1)	34.0	(29.8-38.5)	24.4	(20.7-28.5)
Other non-Hispanic	30.2	(24.2-37.1)	24.7	(19.5-30.8)	45.0	(37.3-53.0)
Hispanic	42.6	(30.5-55.7)	32.0	(22.0-44.0)	25.4	(15.2-39.2)
Education						
Less than high school	32.1	(27.1-37.6)	32.4	(27.2-38.1)	35.5	(29.7-41.7)
High school graduate	33.9	(31.5-36.4)	34.6	(32.1-37.1)	31.5	(28.9-34.3)
Some college	32.6	(30.1-35.2)	35.3	(32.7-38.0)	32.1	(29.4-34.9)
College graduate	26.4	(24.1-28.7)	37.6	(35.2-40.0)	36.0	(33.7-38.5)
Household Income						
< \$20,000	34.5	(31.0-38.0)	31.5	(27.9-35.3)	34.0	(30.2-38.0)
\$20,000 - \$34,999	34.7	(31.5-38.0)	35.0	(31.8-38.3)	30.3	(27.1-33.8)
\$35,000 - \$49,999	32.8	(29.2-36.5)	37.9	(34.2-41.6)	29.4	(25.8-33.2)
\$50,000 - \$74,999	34.5	(31.2-38.1)	37.2	(33.7-40.7)	28.3	(25.2-31.6)
\$75,000 +	25.7	(23.1-28.6)	38.8	(35.8-41.8)	35.5	(32.6-38.5)

Note: BMI, body mass index, is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)²]. Weight and height were self-reported. Pregnant women were excluded. (N = 8,795)

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

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

^c Among all adults, the proportion of respondents whose BMI was less than 25.0.

**Table 9: Health Care Access
2009 Michigan BRFSS**

Demographic Characteristics	No Health Care Coverage ^a (Among 18 - 64 year olds)		No Personal Health Care Provider ^b		No Health Care Access During Past 12 Months Due to Cost ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	16.2	(14.8-17.6)	13.4	(12.3-14.7)	13.9	(12.9-15.0)
Age						
18 - 24	24.2	(19.3-29.8)	27.2	(21.8-33.4)	15.3	(11.6-19.8)
25 - 34	21.9	(18.0-26.4)	22.9	(19.1-27.3)	18.5	(15.0-22.5)
35 - 44	15.7	(13.2-18.7)	15.2	(12.8-17.9)	17.9	(15.2-20.9)
45 - 54	12.9	(11.2-14.8)	10.3	(8.8-12.1)	15.5	(13.7-17.5)
55 - 64	8.6	(7.3-10.0)	6.0	(5.0-7.3)	11.2	(9.8-12.7)
65 - 74	---	---	3.3	(2.5-4.5)	5.3	(4.0-6.8)
75 +	---	---	2.9	(2.1-4.0)	4.3	(3.2-5.7)
Gender						
Male	19.1	(16.9-21.5)	18.6	(16.6-20.7)	13.3	(11.7-15.1)
Female	13.3	(11.8-15.0)	8.6	(7.4-10.0)	14.5	(13.2-15.8)
Race/Ethnicity						
White non-Hispanic	14.2	(12.8-15.7)	11.8	(10.6-13.0)	12.2	(11.1-13.3)
Black non-Hispanic	23.6	(19.1-28.8)	19.2	(15.5-23.6)	20.3	(16.7-24.5)
Other non-Hispanic	19.9	(13.7-28.1)	22.6	(15.7-31.4)	21.4	(16.1-27.9)
Hispanic	25.9	(16.2-38.6)	17.7	(8.6-32.9)	16.8	(10.7-25.5)
Education						
Less than high school	32.1	(24.4-40.9)	18.9	(14.0-25.0)	23.2	(18.1-29.3)
High school graduate	24.9	(21.9-28.1)	15.4	(13.2-17.9)	17.9	(15.8-20.3)
Some college	15.5	(13.2-18.0)	14.6	(12.4-17.1)	15.2	(13.4-17.2)
College graduate	7.1	(5.7-8.8)	9.4	(7.8-11.3)	7.1	(6.0-8.3)
Household Income						
< \$20,000	36.2	(31.7-41.0)	23.4	(20.0-27.1)	33.0	(29.4-36.9)
\$20,000 - \$34,999	29.8	(25.6-34.4)	18.6	(15.5-22.2)	20.1	(17.4-23.1)
\$35,000 - \$49,999	14.9	(11.4-19.3)	11.7	(8.9-15.3)	11.7	(9.5-14.3)
\$50,000 - \$74,999	6.2	(4.4-8.5)	8.4	(6.4-10.9)	8.7	(6.9-11.0)
\$75,000 +	3.9	(2.5-6.0)	7.7	(6.0-9.8)	3.2	(2.2-4.7)

^a Among adults aged 18-64 years, the proportion who reported having no health care coverage, including health insurance, prepaid plans such as HMOs, or government plans, such as Medicare. (N = 6,104)

^b Among all adults, the proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider. (N = 9,219)

^c Among all adults, the proportion who reported that in the past 12 months, they could not see a doctor when they needed to due to the cost. (N = 9,236)

Table 10: No Leisure-Time Physical Activity 2009 Michigan BRFSS		
Demographic Characteristics	No Leisure-Time Physical Activity^a	
	%	95% Confidence Interval
Total	24.1	(22.9-25.3)
Age		
18 – 24	15.3	(11.2-20.5)
25 – 34	21.7	(18.0-25.8)
35 – 44	19.5	(17.1-22.3)
45 – 54	24.6	(22.3-26.9)
55 – 64	27.6	(25.5-29.9)
65 – 74	27.9	(25.4-30.5)
75 +	39.2	(36.3-42.1)
Gender		
Male	22.2	(20.3-24.1)
Female	25.9	(24.5-27.4)
Race/Ethnicity		
White non-Hispanic	23.1	(21.9-24.4)
Black non-Hispanic	30.6	(26.9-34.5)
Other non-Hispanic	21.3	(16.7-26.7)
Hispanic	26.6	(16.6-39.7)
Education		
Less than high school	42.9	(37.4-48.7)
High school graduate	32.1	(29.7-34.5)
Some college	23.5	(21.4-25.8)
College graduate	13.3	(11.9-14.8)
Household Income		
< \$20,000	36.1	(32.6-39.6)
\$20,000 - \$34,999	31.4	(28.4-34.5)
\$35,000 - \$49,999	24.6	(21.5-27.9)
\$50,000 - \$74,999	21.1	(18.5-23.9)
\$75,000 +	12.6	(10.8-14.7)
^a Among all adults, the proportion who reported not participating in any leisure-time physical activities or exercises such as running, calisthenics, golf, gardening, or walking during the past month. (N = 9,247)		

Table 11: Moderate and Vigorous Physical Activity 2009 Michigan BRFSS				
Demographic Characteristics	Moderate Physical Activity^a (< 30 minutes, 5 times / week)		Vigorous Physical Activity^b (< 20 minutes, 3 times / week)	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	61.6	(60.1-63.0)	69.3	(67.8-70.7)
Age				
18 - 24	55.0	(48.6-61.2)	56.3	(49.9-62.4)
25 - 34	61.4	(56.5-66.1)	61.6	(56.7-66.2)
35 - 44	61.8	(58.4-65.1)	65.2	(61.8-68.5)
45 - 54	60.5	(57.8-63.2)	70.4	(67.9-72.9)
55 - 64	62.0	(59.5-64.4)	76.6	(74.4-78.7)
65 - 74	63.3	(60.3-66.1)	78.0	(75.4-80.4)
75 +	72.5	(69.5-75.3)	87.5	(85.3-89.4)
Gender				
Male	61.5	(59.2-63.9)	64.8	(62.4-67.0)
Female	61.6	(59.7-63.4)	73.5	(71.7-75.3)
Race/Ethnicity				
White/Non-Hispanic	60.0	(58.4-61.6)	69.3	(67.7-70.8)
Black/Non-Hispanic	69.6	(65.0-73.8)	73.4	(68.8-77.5)
Other/Non-Hispanic	60.6	(52.2-68.4)	59.7	(51.3-67.6)
Hispanic	68.3	(54.9-79.2)	70.1	(57.9-80.1)
Education				
Less than high school	71.0	(64.8-76.4)	83.9	(78.4-88.3)
High school graduate	61.6	(58.8-64.2)	74.9	(72.4-77.3)
Some college	61.7	(58.8-64.4)	67.6	(64.7-70.4)
College graduate	59.9	(57.4-62.4)	63.3	(60.8-65.8)
Household Income				
$< \$20,000$	67.3	(63.2-71.3)	76.8	(72.8-80.5)
$\$20,000 - \$34,999$	62.5	(58.8-66.0)	75.8	(72.3-79.1)
$\$35,000 - \$49,999$	60.5	(56.5-64.4)	71.4	(67.5-74.9)
$\$50,000 - \$74,999$	61.3	(57.8-64.7)	69.2	(65.7-72.6)
$\$75,000 +$	58.5	(55.3-61.5)	58.7	(55.6-61.8)

^a Among all adults, the proportion who reported that they do not usually do moderate physical activities, such as brisk walking, bicycling, vacuuming, and gardening for at least 30 minutes on five or more days per week while not at work. (N = 8,384)

^b Among all adults, the proportion who reported that they do not usually participate in vigorous physical activities, such as running, aerobics, and heavy yard work, for at least 20 minutes on three or more days per week while not at work. (N = 8,641)

Table 12: Inadequate Physical Activity 2009 Michigan BRFSS		
Demographic Characteristics	Inadequate Physical Activity^a	
	%	95% Confidence Interval
Total	48.6	(47.1-50.1)
Age		
18 - 24	37.8	(31.7-44.2)
25 - 34	45.4	(40.6-50.3)
35 - 44	47.0	(43.6-50.4)
45 - 54	49.2	(46.4-51.9)
55 - 64	52.0	(49.4-54.5)
65 - 74	53.0	(50.0-56.0)
75 +	64.8	(61.6-67.8)
Gender		
Male	46.3	(43.9-48.7)
Female	50.9	(49.0-52.7)
Race/Ethnicity		
White/Non-Hispanic	47.9	(46.3-49.6)
Black/Non-Hispanic	54.6	(49.8-59.3)
Other/Non-Hispanic	44.6	(37.2-52.4)
Hispanic	49.8	(36.9-62.8)
Education		
Less than high school	64.5	(58.0-70.4)
High school graduate	51.7	(49.0-54.5)
Some college	47.8	(44.9-50.6)
College graduate	44.1	(41.6-46.7)
Household Income		
< \$20,000	56.5	(52.3-60.6)
\$20,000 - \$34,999	53.3	(49.7-56.8)
\$35,000 - \$49,999	48.5	(44.5-52.5)
\$50,000 - \$74,999	47.3	(43.7-50.9)
\$75,000 +	41.4	(38.4-44.5)

^a Among all adults, the proportion who reported that they do not usually do moderate physical activities for a total of at least 30 minutes on five or more days per week or vigorous physical activities for a total of at least 20 minutes on three or more days per week while not at work. (N = 8,335)

Table 13: Inadequate Fruit and Vegetable Consumption 2009 Michigan BRFSS		
Demographic Characteristics	Fruits and Vegetables^a (< 5 times / day)	
	%	95% Confidence Interval
Total	77.8	(76.6-79.0)
Age		
18 - 24	77.4	(71.6-82.3)
25 - 34	80.2	(76.4-83.6)
35 - 44	79.8	(76.9-82.3)
45 - 54	77.8	(75.5-79.9)
55 - 64	79.2	(77.1-81.1)
65 - 74	75.7	(73.2-78.1)
75 +	69.0	(66.2-71.7)
Gender		
Male	81.9	(79.9-83.6)
Female	74.1	(72.5-75.6)
Race/Ethnicity		
White/Non-Hispanic	77.5	(76.2-78.8)
Black/Non-Hispanic	80.4	(76.8-83.6)
Other/Non-Hispanic	73.4	(66.4-79.4)
Hispanic	82.5	(71.1-90.0)
Education		
Less than high school	80.9	(75.0-85.7)
High school graduate	83.8	(81.9-85.5)
Some college	78.7	(76.3-80.8)
College graduate	70.7	(68.5-72.9)
Household Income		
< \$20,000	80.8	(77.7-83.7)
\$20,000 - \$34,999	79.3	(76.7-81.7)
\$35,000 - \$49,999	77.6	(74.0-80.8)
\$50,000 - \$74,999	78.8	(75.7-81.5)
\$75,000 +	73.0	(70.2-75.7)

^a Among all adults, the proportion whose total reported consumption of fruits (including juice) and vegetables was less than five times per day. (N = 8,959)

**Table 14: Cigarette Smoking
2009 Michigan BRFs**

Demographic Characteristics	Current Smoking ^a		Former Smoking ^b		Never Smoked	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	19.8	(18.6-21.0)	25.8	(24.7-26.9)	54.4	(53.0-55.9)
Age						
18 – 24	18.8	(14.7-23.6)	5.9	(3.7-9.4)	75.3	(69.9-79.9)
25 – 34	28.3	(24.2-32.8)	17.7	(14.4-21.4)	54.0	(49.3-58.7)
35 – 44	21.4	(18.8-24.3)	17.9	(15.4-20.7)	60.7	(57.3-64.0)
45 – 54	24.0	(21.8-26.4)	26.4	(24.1-28.9)	49.6	(46.9-52.2)
55 – 64	18.3	(16.4-20.2)	37.5	(35.2-39.9)	44.2	(41.8-46.7)
65 – 74	11.1	(9.5-12.8)	46.3	(43.5-49.2)	42.6	(39.9-45.5)
75 +	4.0	(3.0-5.2)	43.4	(40.5-46.4)	52.6	(49.6-55.6)
Gender						
Male	21.5	(19.7-23.5)	28.6	(26.8-30.5)	49.8	(47.5-52.1)
Female	18.2	(16.8-19.6)	23.1	(21.8-24.5)	58.7	(57.0-60.5)
Race/Ethnicity						
White non-Hispanic	19.3	(18.1-20.7)	27.8	(26.5-29.1)	52.9	(51.3-54.4)
Black non-Hispanic	21.6	(18.3-25.4)	18.7	(15.9-21.9)	59.7	(55.4-63.8)
Other non-Hispanic	22.0	(16.7-28.3)	17.8	(13.5-23.3)	60.2	(53.0-66.9)
Hispanic	20.8	(12.6-32.3)	17.0	(11.1-25.2)	62.2	(50.2-72.8)
Education						
Less than high school	35.2	(29.7-41.2)	26.4	(22.2-31.0)	38.4	(32.8-44.3)
High school graduate	27.1	(24.8-29.6)	27.1	(25.1-29.2)	45.8	(43.1-48.5)
Some college	20.5	(18.4-22.8)	27.0	(24.8-29.2)	52.5	(49.8-55.2)
College graduate	9.1	(7.8-10.7)	23.4	(21.5-25.4)	67.5	(65.2-69.7)
Household Income						
< \$20,000	35.2	(31.5-39.0)	21.2	(18.7-23.9)	43.6	(39.8-47.5)
\$20,000 - \$34,999	25.5	(22.6-28.6)	27.6	(25.0-30.4)	46.9	(43.5-50.3)
\$35,000 - \$49,999	19.9	(17.0-23.3)	28.8	(25.6-32.1)	51.3	(47.5-55.1)
\$50,000 - \$74,999	16.5	(14.0-19.3)	28.0	(25.0-31.2)	55.6	(52.0-59.1)
\$75,000 +	11.6	(9.6-14.0)	25.3	(22.9-27.7)	63.1	(60.2-66.0)

^a Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life and that they smoke cigarettes now, either every day or on some days. (N = 9,217)

^b Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life, but they do not smoke cigarettes now. (N = 9,217)

Table 15: Current Smokers Who Attempted to Quit 2009 Michigan BRFSS		
Demographic Characteristics	Tried to Quit Smoking One Day or Longer in Past Year^a	
	%	95% Confidence Interval
Total	61.7	(58.4-64.9)
Age		
18 – 24	66.1	(52.9-77.1)
25 – 34	61.3	(52.4-69.5)
35 – 44	60.1	(52.8-66.9)
45 – 54	61.3	(55.9-66.5)
55 – 64	65.7	(60.1-70.8)
65 – 74	57.0	(49.0-64.6)
75 +	37.2	(25.4-50.8)
Gender		
Male	63.1	(58.2-67.8)
Female	60.1	(55.7-64.2)
Race/Ethnicity		
White non-Hispanic	59.8	(56.1-63.4)
Black non-Hispanic	66.8	(57.5-75.0)
Other non-Hispanic	68.2	(54.4-79.5)
Hispanic	-- ^b	---
Education		
Less than high school	60.9	(50.3-70.6)
High school graduate	60.1	(55.0-65.0)
Some college	61.4	(55.5-67.0)
College graduate	67.2	(59.4-74.1)
Household Income		
< \$20,000	67.8	(61.0-74.0)
\$20,000 - \$34,999	56.2	(49.3-62.8)
\$35,000 - \$49,999	55.2	(46.4-63.8)
\$50,000 - \$74,999	58.9	(50.0-67.2)
\$75,000 +	70.8	(61.7-78.5)

^a Among current smokers, the proportion who reported that during the past 12 months, they had tried to quit smoking for one day or longer. (N = 1,661)

^b The denominator in this subgroup was less than 50.

Table 16: Smokeless Tobacco Use 2009 Michigan BRFSS		
Demographic Characteristics	Current Smokeless Tobacco Use^a	
	%	95% Confidence Interval
Total	3.4	(2.9-4.0)
Age		
18 – 24	6.6	(4.2-10.0)
25 – 34	4.0	(2.5-6.3)
35 – 44	4.0	(2.8-5.6)
45 – 54	2.8	(2.0-3.9)
55 – 64	2.6	(1.9-3.7)
65 – 74	1.7	(1.1-2.6)
75 +	1.2	(0.8-2.0)
Gender		
Male	6.0	(5.0-7.2)
Female	1.0	(0.7-1.4)
Race/Ethnicity		
White non-Hispanic	3.5	(2.9-4.2)
Black non-Hispanic	2.0	(1.1-3.7)
Other non-Hispanic	5.3	(2.6-10.2)
Hispanic	3.2	(1.3-7.8)
Education		
Less than high school	6.3	(3.9-10.0)
High school graduate	5.2	(4.0-6.6)
Some college	3.2	(2.3-4.4)
College graduate	1.4	(0.9-2.2)
Household Income		
< \$20,000	5.6	(4.0-8.0)
\$20,000 - \$34,999	4.3	(3.0-6.0)
\$35,000 - \$49,999	2.9	(1.7-4.7)
\$50,000 - \$74,999	2.3	(1.4-3.8)
\$75,000 +	2.1	(1.4-3.3)

^a Among all adults, the proportion who reported that they currently use chewing tobacco, snuff or snus, either every day or on some days. (N = 9,247)

Table 17: Alcohol Consumption 2009 Michigan BRFSS				
Demographic Characteristics	Heavy Drinking^a		Binge Drinking^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	5.2	(4.5-5.9)	16.9	(15.8-18.1)
Age				
18 – 24	5.7	(3.5-9.2)	25.2	(20.3-30.7)
25 – 34	6.3	(4.3-9.1)	23.5	(19.7-27.7)
35 – 44	5.7	(4.4-7.5)	22.3	(19.6-25.3)
45 – 54	5.5	(4.4-6.9)	17.5	(15.4-19.7)
55 – 64	5.3	(4.2-6.5)	11.0	(9.6-12.7)
65 – 74	3.3	(2.4-4.4)	5.8	(4.6-7.4)
75 +	2.2	(1.5-3.2)	2.5	(1.7-3.7)
Gender				
Male	6.5	(5.5-7.8)	23.8	(21.8-25.9)
Female	3.9	(3.2-4.7)	10.5	(9.4-11.8)
Race/Ethnicity				
White non-Hispanic	5.5	(4.8-6.3)	18.5	(17.2-19.9)
Black non-Hispanic	2.5	(1.5-4.1)	9.3	(6.9-12.5)
Other non-Hispanic	6.9	(3.6-12.9)	14.7	(10.4-20.4)
Hispanic	4.6	(1.9-10.7)	13.7	(8.4-21.6)
Education				
Less than high school	4.4	(2.5-7.7)	10.9	(7.0-16.8)
High school graduate	5.3	(4.2-6.6)	16.9	(14.8-19.1)
Some college	5.3	(4.2-6.7)	17.4	(15.3-19.8)
College graduate	5.0	(4.0-6.4)	17.6	(15.7-19.8)
Household Income				
< \$20,000	4.5	(2.9-6.9)	12.5	(9.8-15.7)
\$20,000 - \$34,999	5.4	(4.1-7.2)	15.3	(12.7-18.4)
\$35,000 - \$49,999	5.9	(4.3-8.1)	17.4	(14.5-20.8)
\$50,000 - \$74,999	5.9	(4.4-7.8)	18.7	(15.9-21.9)
\$75,000 +	6.2	(4.9-7.9)	22.5	(19.9-25.2)

^a Among all adults, the proportion who reported consuming an average of more than two alcoholic drinks per day for men or more than one per day for women in the previous month. (N = 8,921)

^b Among all adults, the proportion who reported consuming five or more drinks per occasion (for men) or 4 or more drinks per occasion (for women) at least once in the previous month. (N = 9,004)

Table 18: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers 2009 Michigan BRFSS		
Demographic Characteristics	Number of Binge Drinking Occasions^a	
	Mean	95% Confidence Interval
Total	4.2	(3.7-4.6)
Age		
18 – 24	3.9	(3.0-4.8)
25 – 34	4.0	(3.0-5.1)
35 – 44	4.6	(3.7-5.6)
45 – 54	3.8	(2.9-4.6)
55 – 64	4.5	(3.6-5.3)
65 – 74	4.4	(2.9-5.9)
75+	-- ^b	---
Gender		
Male	4.6	(4.1-5.2)
Female	3.2	(2.7-3.6)
Race/Ethnicity		
White non-Hispanic	3.9	(3.5-4.3)
Black non-Hispanic	5.9	(3.1-8.7)
Other non-Hispanic	4.5	(2.6-6.4)
Hispanic	-- ^b	---
Education		
Less than high school	-- ^b	---
High school graduate	4.5	(3.7-5.2)
Some college	4.8	(3.9-5.7)
College graduate	3.2	(2.8-3.7)
Household Income		
< \$20,000	4.5	(3.1-5.9)
\$20,000 - \$34,999	5.0	(3.6-6.4)
\$35,000 - \$49,999	4.3	(3.3-5.3)
\$50,000 - \$74,999	4.2	(3.1-5.2)
\$75,000 +	3.9	(3.3-4.6)
^a Among adults who binge drank in the past month, the mean number of times during which five or more alcoholic beverages (for men) or four or more (for women) were consumed during the past month. (N = 1,067) ^b The denominator in this subgroup was less than 50.		

Table 19: Hypertension Awareness and Medication Use 2009 Michigan BRFSS				
Demographic Characteristics	Ever Told HBP^a		Taking BP Medication^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	30.4	(29.2-31.6)	79.5	(77.3-81.5)
Age				
18 – 24	7.7	(5.3-11.3)	-- ^c	---
25 – 34	13.6	(10.3-17.8)	49.5	(35.0-64.2)
35 – 44	19.4	(16.8-22.3)	62.9	(55.0-70.2)
45 – 54	29.3	(26.9-31.8)	77.3	(73.1-81.0)
55 – 64	45.9	(43.5-48.3)	86.4	(83.8-88.7)
65 – 74	60.9	(58.1-63.6)	93.1	(91.0-94.7)
75 +	62.5	(59.5-65.3)	94.0	(92.0-95.5)
Gender				
Male	32.6	(30.6-34.7)	74.7	(71.1-77.9)
Female	28.4	(27.0-29.8)	84.7	(82.5-86.6)
Race/Ethnicity				
White non-Hispanic	29.8	(28.5-31.1)	79.1	(76.8-81.2)
Black non-Hispanic	36.8	(32.8-40.9)	81.5	(74.2-87.2)
Other non-Hispanic	26.6	(21.2-32.7)	72.4	(58.9-82.8)
Hispanic	21.4	(13.6-32.0)	-- ^c	---
Education				
Less than high school	39.3	(34.1-44.8)	85.1	(78.5-89.9)
High school graduate	36.7	(34.3-39.1)	79.4	(75.8-82.6)
Some college	28.5	(26.4-30.7)	78.9	(75.0-82.4)
College graduate	24.4	(22.5-26.4)	78.4	(73.7-82.5)
Household Income				
< \$20,000	38.0	(34.6-41.6)	78.7	(73.5-83.1)
\$20,000 - \$34,999	38.6	(35.6-41.8)	82.9	(78.9-86.3)
\$35,000 - \$49,999	33.7	(30.4-37.2)	77.4	(70.3-83.1)
\$50,000 - \$74,999	25.3	(22.6-28.2)	80.5	(74.2-85.6)
\$75,000 +	22.1	(19.8-24.5)	78.1	(72.5-82.8)

^a Among all adults, the proportion who reported that they were ever told by a doctor that they have high blood pressure (HBP). Women who had HBP only during pregnancy and adults who were borderline hypertensive were considered to not have been diagnosed. (N = 9,221)

^b Among adults who were ever told that they had HBP, the proportion that reported they were currently taking blood pressure (BP) medicines for their HBP. (N = 3,861)

^c The denominator in this subgroup was less than 50.

Demographic Characteristics	Days With Not Enough Rest or Sleep^a		Poor Rest or Sleep^b	
	Mean # of Days	95% Confidence Interval	%	95% Confidence Interval
Total	8.7	(8.4-9.0)	27.8	(26.5-29.2)
Age				
18 – 24	8.6	(7.4-9.8)	26.3	(21.5-31.8)
25 – 34	11.8	(10.8-12.8)	40.3	(35.7-45.2)
35 – 44	10.1	(9.4-10.8)	31.8	(28.7-35.1)
45 – 54	9.5	(8.9-10.1)	29.4	(27.0-31.9)
55 – 64	7.4	(6.9-7.9)	24.1	(22.1-26.2)
65 – 74	5.0	(4.5-5.5)	14.9	(12.9-17.2)
75 +	4.5	(4.0-5.0)	13.5	(11.5-15.6)
Gender				
Male	8.3	(7.9-8.8)	26.6	(24.5-28.9)
Female	9.1	(8.7-9.5)	28.9	(27.3-30.6)
Race/Ethnicity				
White non-Hispanic	8.5	(8.2-8.8)	26.5	(25.1-28.0)
Black non-Hispanic	9.9	(8.9-10.9)	32.3	(28.0-36.8)
Other non-Hispanic	9.2	(7.6-10.7)	32.6	(25.8-40.2)
Hispanic	9.2	(6.8-11.6)	32.0	(22.0-43.9)
Education				
Less than high school	9.8	(8.5-11.1)	34.8	(29.1-41.0)
High school graduate	8.6	(8.0-9.2)	27.0	(24.7-29.5)
Some college	9.2	(8.7-9.8)	30.1	(27.6-32.7)
College graduate	8.2	(7.8-8.7)	25.1	(23.0-27.4)
Household Income				
< \$20,000	10.4	(9.5-11.3)	34.2	(30.5-38.1)
\$20,000 - \$34,999	8.2	(7.5-8.9)	25.6	(22.7-28.7)
\$35,000 - \$49,999	8.7	(7.9-9.5)	27.9	(24.3-31.8)
\$50,000 - \$74,999	8.8	(8.1-9.5)	28.8	(25.6-32.2)
\$75,000 +	8.8	(8.3-9.3)	26.9	(24.2-29.8)

^a Among all adults, the mean number of days during the past 30 days in which the respondent did not get enough rest or sleep. (N = 9,080)

^b Among all adults, the proportion who reported 14 or more days of poor rest or sleep, during the past 30 days. (N = 9,080)

**Table 21: Cholesterol Screening and Awareness
2009 Michigan BRFSS**

Demographic Characteristics	Cholesterol Ever Checked ^a		Checked Within Past Five Years ^b		Ever Told High Cholesterol ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	83.3	(81.9-84.6)	79.8	(78.3-81.2)	38.9	(37.5-40.2)
Age						
18 – 24	38.9	(32.9-45.3)	36.9	(31.0-43.3)	9.7	(5.2-17.3)
25 – 34	73.9	(69.4-77.9)	68.9	(64.1-73.3)	13.6	(10.4-17.6)
35 – 44	86.3	(83.5-88.6)	81.2	(78.1-83.9)	29.5	(26.3-32.9)
45 – 54	92.0	(90.3-93.4)	87.8	(85.9-89.5)	42.0	(39.3-44.8)
55 – 64	95.9	(94.7-96.8)	92.5	(91.1-93.7)	53.6	(51.1-56.1)
65 – 74	98.0	(97.1-98.6)	96.7	(95.4-97.6)	59.3	(56.5-62.2)
75 +	95.5	(93.9-96.7)	94.3	(92.6-95.7)	52.7	(49.6-55.7)
Gender						
Male	81.4	(79.1-83.5)	77.1	(74.7-79.3)	41.2	(38.9-43.5)
Female	85.1	(83.4-86.7)	82.3	(80.5-84.0)	36.8	(35.2-38.5)
Race/Ethnicity						
White non-Hispanic	83.8	(82.3-85.2)	80.1	(78.5-81.6)	40.4	(38.9-41.9)
Black non-Hispanic	80.8	(76.2-84.7)	79.4	(74.7-83.3)	32.7	(28.9-36.7)
Other non-Hispanic	82.2	(73.4-88.5)	79.9	(71.3-86.4)	37.9	(31.3-45.0)
Hispanic	81.5	(66.3-90.8)	73.8	(58.5-84.9)	28.2	(19.6-38.7)
Education						
Less than high school	72.0	(65.5-77.6)	68.5	(61.9-74.3)	46.2	(40.1-52.3)
High school graduate	80.5	(77.8-83.0)	76.8	(74.0-79.4)	44.1	(41.5-46.7)
Some college	81.5	(78.7-84.0)	78.2	(75.3-80.8)	36.3	(33.9-38.9)
College graduate	89.7	(87.6-91.5)	86.2	(83.8-86.2)	35.6	(33.3-37.9)
Household Income						
< \$20,000	73.6	(69.4-77.5)	69.8	(65.6-73.7)	42.1	(38.4-46.0)
\$20,000 - \$34,999	80.6	(76.9-83.7)	76.8	(73.1-80.1)	45.3	(42.0-48.6)
\$35,000 - \$49,999	84.9	(81.2-88.0)	82.4	(78.6-85.7)	40.5	(36.9-44.2)
\$50,000 - \$74,999	85.1	(81.5-88.1)	81.5	(77.8-84.7)	36.5	(33.2-39.9)
\$75,000 +	91.2	(88.9-93.1)	87.8	(85.1-90.0)	33.6	(30.9-36.3)

^a Among all adults, the proportion who reported ever having had their blood cholesterol checked. (N = 9,087)

^b Among all adults, the proportion who reported that they have had their blood cholesterol checked within the past five years. (N = 8,989)

^c Among adults who ever had their blood cholesterol checked, the proportion who reported that a doctor, nurse, or other health professional had told them that their cholesterol was high. (N = 8,184)

Table 22: No Routine Checkup in Past Year 2009 Michigan BRFSS		
Demographic Characteristics	Had No Routine Checkup in Past Year^a	
	%	95% Confidence Interval
Total	30.9	(29.5-32.3)
Age		
18 - 24	34.9	(29.2-41.1)
25 - 34	43.2	(38.5-48.0)
35 - 44	37.5	(34.3-40.9)
45 - 54	32.8	(30.3-35.4)
55 - 64	23.6	(21.6-25.8)
65 - 74	15.3	(13.4-17.5)
75 +	13.3	(11.4-15.5)
Gender		
Male	37.4	(35.1-39.7)
Female	24.8	(23.2-26.4)
Race/Ethnicity		
White non-Hispanic	31.8	(30.3-33.4)
Black non-Hispanic	22.1	(18.3-26.5)
Other non-Hispanic	32.6	(25.9-40.1)
Hispanic	39.9	(28.4-52.7)
Education		
Less than high school	28.0	(22.6-34.0)
High school graduate	32.0	(29.4-34.7)
Some college	29.7	(27.2-32.3)
College graduate	31.5	(29.1-33.9)
Household Income		
< \$20,000	33.7	(30.0-37.6)
\$20,000 - \$34,999	33.9	(30.7-37.3)
\$35,000 - \$49,999	31.6	(28.0-35.6)
\$50,000 - \$74,999	30.1	(26.8-33.6)
\$75,000 +	27.7	(25.1-30.6)

^a Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 9,146)

Table 23: Immunizations among Adults Aged 65 Years and Older 2009 Michigan BRFSS				
Demographic Characteristics	Had Flu Vaccine in Past Year^a		Ever Had Pneumonia Vaccine^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	69.0	(67.0-70.9)	67.3	(65.3-69.3)
Age				
65 - 74	63.4	(60.6-66.2)	60.0	(57.1-62.8)
75 +	75.0	(72.4-77.5)	75.2	(72.5-77.8)
Gender				
Male	69.3	(66.1-72.4)	65.0	(61.7-68.2)
Female	68.8	(66.3-71.1)	69.0	(66.5-71.4)
Race/Ethnicity				
White non-Hispanic	71.0	(68.9-73.0)	69.7	(67.6-71.7)
Black non-Hispanic	56.0	(49.7-62.2)	50.7	(44.3-57.2)
Other non-Hispanic	49.9	(37.9-61.9)	55.3	(42.7-67.2)
Hispanic	-- ^c	---	-- ^c	---
Education				
Less than high school	64.3	(58.2-70.0)	65.0	(58.9-70.6)
High school graduate	67.8	(64.6-70.8)	66.4	(63.2-69.5)
Some college	68.8	(64.6-72.7)	69.4	(65.3-73.2)
College graduate	74.5	(70.7-77.9)	68.0	(63.9-71.9)
Household Income				
< \$20,000	65.6	(61.0-69.9)	67.7	(63.0-72.0)
\$20,000 - \$34,999	68.3	(64.5-71.9)	67.7	(63.9-71.3)
\$35,000 - \$49,999	69.5	(64.1-74.4)	66.3	(60.9-71.3)
\$50,000 - \$74,999	72.2	(65.8-77.9)	75.0	(68.6-80.5)
\$75,000 +	72.7	(65.9-78.5)	63.1	(56.1-69.5)
^a Among adults aged 65 years and older, the proportion who reported that they had a flu vaccine, either by an injection in the arm or sprayed in the nose during the past 12 months. (N = 2,971) ^b Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 2,897) ^c The denominator in this subgroup was less than 50.				

Table 24: HIV Testing among Adults Aged 18 - 64 Years 2009 Michigan BRFSS		
Demographic Characteristics	Ever Had an HIV Test^a	
	%	95% Confidence Interval
Total	38.2	(36.5-39.9)
Age		
18 – 24	27.2	(22.2-32.8)
25 – 34	53.4	(48.6-58.2)
35 – 44	51.6	(48.2-55.0)
45 – 54	34.2	(31.7-36.8)
55 – 64	21.4	(19.5-23.5)
Gender		
Male	34.0	(31.4-36.6)
Female	42.3	(40.2-44.5)
Race/Ethnicity		
White non-Hispanic	33.6	(31.8-35.3)
Black non-Hispanic	63.3	(58.2-68.2)
Other non-Hispanic	40.0	(32.2-48.3)
Hispanic	45.2	(32.5-58.7)
Education		
Less than high school	40.0	(32.0-48.5)
High school graduate	32.0	(29.0-35.1)
Some college	39.5	(36.5-42.6)
College graduate	41.9	(39.2-44.7)
Household Income		
< \$20,000	51.4	(46.6-56.2)
\$20,000 - \$34,999	37.8	(33.7-42.1)
\$35,000 - \$49,999	34.7	(30.4-39.2)
\$50,000 - \$74,999	40.4	(36.6-44.4)
\$75,000 +	37.5	(34.3-40.7)
^a Among adults aged 18 - 64 years, the proportion who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation. Don't know was considered a valid response to this question. (N = 5,887)		

Table 25: Asthma among Adults 2009 Michigan BRFSS				
Demographic Characteristics	Lifetime Asthma Prevalence^a		Current Asthma Prevalence^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	15.6	(14.6-16.7)	9.9	(9.1-10.8)
Age				
18 - 24	21.5	(17.2-26.6)	12.7	(9.3-17.0)
25 - 34	16.8	(13.7-20.5)	9.3	(7.1-12.1)
35 - 44	15.5	(13.1-18.3)	9.6	(7.6-12.1)
45 - 54	15.7	(13.8-17.7)	10.4	(9.0-12.1)
55 - 64	14.8	(13.2-16.6)	10.3	(8.9-11.9)
65 - 74	12.8	(11.1-14.8)	9.0	(7.6-10.7)
75 +	8.8	(7.2-10.6)	6.4	(5.1-8.0)
Gender				
Male	12.8	(11.3-14.5)	7.3	(6.2-8.6)
Female	18.3	(16.9-19.7)	12.3	(11.1-13.5)
Race/Ethnicity				
White non-Hispanic	14.7	(13.6-15.9)	9.3	(8.5-10.3)
Black non-Hispanic	18.2	(15.0-21.9)	11.2	(8.7-14.4)
Other non-Hispanic	24.3	(18.4-31.4)	14.4	(10.2-20.1)
Hispanic	14.1	(8.7-21.9)	10.5	(6.3-17.2)
Education				
Less than high school	19.9	(15.4-25.2)	14.5	(10.7-19.3)
High school graduate	14.7	(12.9-16.8)	10.3	(8.8-12.1)
Some college	17.2	(15.3-19.4)	10.4	(9.0-12.1)
College graduate	14.2	(12.6-16.1)	8.1	(6.9-9.5)
Household Income				
< \$20,000	20.5	(17.6-23.7)	15.5	(13.0-18.5)
\$20,000 - \$34,999	16.0	(13.7-18.6)	10.7	(8.9-12.9)
\$35,000 - \$49,999	13.5	(11.1-16.2)	7.8	(6.1-9.8)
\$50,000 - \$74,999	13.2	(10.9-15.8)	9.2	(7.3-11.5)
\$75,000 +	14.1	(12.2-16.3)	7.0	(5.8-8.4)
^a Among all adults, the proportion who reported that they were ever told by a doctor, nurse, or other health care professional that they had asthma. (N = 9,231)				
^b Among all adults, the proportion who reported that they still had asthma. (N = 9,196)				

Table 26: Asthma among Children 2009 Michigan BRFSS				
Demographic Characteristics	Lifetime Asthma Prevalence^a		Current Asthma Prevalence^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	11.7	(10.2-13.4)	8.4	(7.1-9.9)
Age				
0 - 4	4.6	(2.8-7.4)	4.2	(2.5-7.1)
5 - 9	11.6	(8.7-15.3)	8.7	(6.2-12.0)
10 - 14	13.8	(11.0-17.2)	8.8	(6.6-11.8)
15 - 17	17.7	(13.6-22.8)	12.6	(8.9-17.6)
Gender				
Boy	13.3	(11.1-15.8)	8.9	(7.1-11.3)
Girl	10.1	(8.3-12.4)	7.9	(6.3-10.0)
Race/Ethnicity				
White non-Hispanic	10.6	(9.0-12.4)	7.5	(6.1-9.1)
Black non-Hispanic	16.6	(12.1-22.5)	13.4	(9.2-19.1)
Other non-Hispanic	10.9	(6.9-16.7)	6.8	(3.8-11.8)
Hispanic	11.0	(5.8-20.0)	5.2	(2.0-12.8)
Respondent Education				
Less than high school	15.1	(7.9-26.9)	12.5	(6.0-24.3)
High school graduate	11.2	(8.6-14.4)	8.2	(6.0-11.1)
Some college	13.1	(10.2-16.7)	10.2	(7.5-13.6)
College graduate	10.6	(8.6-13.1)	6.8	(5.1-8.9)
Household Income				
< \$20,000	16.7	(12.1-22.6)	14.3	(10.0-20.1)
\$20,000 - \$34,999	10.7	(7.6-14.8)	8.0	(5.3-11.8)
\$35,000 - \$49,999	10.8	(7.5-15.4)	7.2	(4.5-11.3)
\$50,000 - \$74,999	12.4	(9.2-16.6)	7.6	(5.0-11.3)
\$75,000 +	10.4	(8.2-13.1)	6.9	(5.1-9.2)
^a Estimated proportion of Michigan children aged 0-17 years ever diagnosed with asthma, using proxy information from respondent. (N = 2,336). ^b Estimated proportion of Michigan children aged 0-17 years with current asthma. (N = 2,325)				

Table 27: Arthritis 2009 Michigan BRFSS				
Demographic Characteristics	Ever Told Arthritis^a		Usual Activities Now Limited^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Total	31.3	(30.1-32.5)	44.1	(42.1-46.1)
Age				
18 - 34	7.2	(5.5-9.3)	39.2	(27.2-52.7)
35 - 44	21.0	(18.4-23.9)	44.2	(37.1-51.5)
45 - 54	36.1	(33.5-38.7)	43.8	(39.4-48.3)
55 - 64	49.4	(46.9-51.9)	46.1	(37.9-45.2)
65 - 75	59.7	(56.8-62.5)	41.5	(37.9-45.2)
75 +	61.0	(58.0-63.9)	44.9	(41.1-48.7)
Gender				
Male	26.5	(24.8-28.3)	42.5	(39.1-46.0)
Female	35.7	(34.1-37.3)	45.2	(42.7-47.6)
Race/Ethnicity				
White/Non-Hispanic	32.5	(31.2-33.9)	41.8	(39.6-44.0)
Black/Non-Hispanic	28.4	(25.2-31.9)	53.9	(48.3-59.5)
Other/Non-Hispanic	27.0	(21.4-33.5)	55.0	(42.8-66.5)
Hispanic	15.5	(10.3-22.7)	-- ^c	---
Education				
Less than high school	45.6	(39.9-51.4)	51.9	(45.1-58.6)
High school graduate	35.4	(33.1-37.7)	44.8	(41.5-48.2)
Some college	31.5	(29.3-33.8)	46.2	(42.3-50.0)
College graduate	24.6	(22.8-26.5)	38.0	(34.3-41.8)
Household Income				
< \$20,000	42.1	(38.5-45.8)	57.1	(52.1-62.0)
\$20,000 - \$34,999	37.7	(34.8-40.8)	45.5	(41.4-49.6)
\$35,000 - \$49,999	33.5	(30.3-36.8)	42.3	(37.1-47.7)
\$50,000 - \$74,999	28.6	(25.8-31.6)	38.2	(33.1-43.7)
\$75,000 +	22.7	(20.6-25.0)	35.0	(30.2-40.1)
^a Among all adults, the proportion who reported ever being told by a health care professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. (N = 8,999) ^b Among adults who reported ever being told by a health care professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia, the proportion who reported that their usual activities are now limited by their arthritis or joint symptoms. (N = 3,890) ^c The denominator in this subgroup was less than 50.				

**Table 28: Cardiovascular Disease
2009 Michigan BRFSS**

Demographic Characteristics	Ever Told Heart Attack ^a		Ever Told Angina or Coronary Heart Disease ^b		Ever Told Stroke ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	4.5	(4.0-4.9)	4.4	(4.0-4.9)	2.7	(2.4-3.0)
Age						
18 - 34	0.3	(0.1-0.9)	0.1	(0.0-0.5)	0.2	(0.0-0.6)
35 - 44	1.6	(0.9-2.6)	1.4	(0.9-2.4)	1.0	(0.5-1.9)
45 - 54	3.3	(2.5-4.4)	2.9	(2.2-3.9)	1.9	(1.3-2.8)
55 - 64	6.9	(5.8-8.3)	7.9	(6.6-9.3)	4.2	(3.3-5.3)
65 - 74	11.2	(9.4-13.3)	13.4	(11.5-15.7)	6.1	(4.9-7.7)
75 +	16.6	(14.5-19.0)	14.3	(12.3-16.6)	10.2	(8.5-12.1)
Gender						
Male	5.5	(4.8-6.3)	5.0	(4.3-5.7)	2.4	(2.0-2.9)
Female	3.5	(3.0-4.0)	4.0	(3.5-4.5)	2.9	(2.5-3.4)
Race/Ethnicity						
White non-Hispanic	4.7	(4.2-5.2)	4.4	(4.0-4.9)	2.4	(2.1-2.8)
Black non-Hispanic	3.7	(2.7-5.0)	4.6	(3.3-5.7)	3.7	(2.8-4.8)
Other non-Hispanic	3.9	(2.5-6.0)	4.6	(3.0-6.9)	3.7	(2.2-6.2)
Hispanic	2.7	(1.1-6.3)	2.4	(0.9-6.3)	1.1	(0.3-3.4)
Education						
Less than high school	9.7	(7.4-12.6)	7.3	(5.5-9.6)	6.2	(4.6-8.4)
High school graduate	6.0	(5.2-7.0)	5.1	(4.4-5.9)	3.4	(2.8-4.2)
Some college	3.9	(3.3-4.7)	4.8	(4.1-5.7)	2.2	(1.7-2.7)
College graduate	2.4	(1.9-3.1)	2.9	(2.4-3.6)	1.6	(1.2-2.1)
Household Income						
< \$20,000	8.1	(6.7-9.8)	6.2	(5.1-7.5)	6.3	(5.1-7.7)
\$20,000 - \$34,999	7.3	(6.1-8.8)	6.6	(5.5-8.0)	3.4	(2.6-4.3)
\$35,000 - \$49,999	5.0	(3.9-6.3)	5.4	(4.3-6.8)	1.8	(1.2-2.8)
\$50,000 - \$74,999	3.2	(2.4-4.4)	3.4	(2.5-4.6)	1.2	(0.7-1.8)
\$75,000 +	1.5	(1.0-2.2)	2.2	(1.7-3.0)	0.8	(0.5-1.3)

Among all adults, the proportion who had ever been told by a doctor that...

^a they had a heart attack or myocardial infarction (N = 9,176);

^b they had angina or coronary heart disease (N = 9,121);

^c they had a stroke. (N = 9,231)

Table 29: Diabetes 2009 Michigan BRFSS		
Demographic Characteristics	Ever Told Diabetes^a	
	%	95% Confidence Interval
Total	9.4	(8.8-10.1)
Age		
18 – 24	1.7	(0.7-4.2)
25 – 34	1.4	(0.7-2.6)
35 – 44	4.8	(3.6-6.4)
45 – 54	8.5	(7.2-10.1)
55 – 64	17.1	(15.3-19.0)
65 – 74	23.7	(21.3-26.2)
75 +	19.5	(17.3-22.0)
Gender		
Male	9.7	(8.7-10.7)
Female	9.2	(8.4-10.1)
Race/Ethnicity		
White non-Hispanic	8.6	(7.9-9.3)
Black non-Hispanic	12.6	(10.7-14.7)
Other non-Hispanic	11.0	(8.1-14.9)
Hispanic	12.6	(7.7-19.9)
Education		
Less than high school	15.4	(12.6-18.8)
High school graduate	11.9	(10.6-13.3)
Some college	9.3	(8.2-10.5)
College graduate	6.0	(5.2-6.9)
Household Income		
< \$20,000	14.0	(12.1-16.1)
\$20,000 - \$34,999	14.2	(12.5-16.2)
\$35,000 - \$49,999	7.9	(6.5-9.5)
\$50,000 - \$74,999	8.7	(7.2-10.6)
\$75,000 +	4.2	(3.4-5.2)
^a Among all adults, the proportion who reported that they were ever told by a doctor that they have diabetes. Adults who had been told they have prediabetes and women who had diabetes only during pregnancy were classified as not having been diagnosed. (N = 9,253)		

Table 30: Cancer 2009 Michigan BRFSS		
Demographic Characteristics	Ever Told Cancer^a	
	%	95% Confidence Interval
Total	9.9	(9.2-10.6)
Age		
18 – 24	0.9	(0.3-2.9)
25 – 34	2.4	(1.2-4.5)
35 – 44	4.8	(3.3-7.0)
45 – 54	7.3	(6.1-8.9)
55 – 64	13.5	(11.9-15.2)
65 – 74	24.6	(22.2-27.2)
75 +	32.5	(29.7-35.4)
Gender		
Male	8.7	(7.7-9.8)
Female	11.0	(10.2-12.0)
Race/Ethnicity		
White non-Hispanic	10.6	(9.8-11.3)
Black non-Hispanic	6.4	(4.4-9.1)
Other non-Hispanic	9.5	(6.0-14.7)
Hispanic	6.6	(3.2-13.1)
Education		
Less than high school	12.9	(10.0-16.5)
High school graduate	9.9	(8.8-11.1)
Some college	9.3	(8.1-10.7)
College graduate	9.9	(8.7-11.3)
Household Income		
< \$20,000	11.7	(9.8-13.9)
\$20,000 - \$34,999	10.4	(9.1-12.0)
\$35,000 - \$49,999	10.7	(8.8-12.9)
\$50,000 - \$74,999	8.7	(7.3-10.4)
\$75,000 +	8.6	(7.2-10.4)
^a Among all adults, the proportion who reported that they were ever told by a doctor, nurse, or other health professional that they have cancer. (N = 8,853)		