2009 Michigan Behavioral Risk Factor Survey: Estimates by Race-Ethnicity

Selected Tables

Behavioral Risk Factor Survey
2009

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

Prepared by Chris Fussman
April 22, 2010

Table of Contents

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 BRFS data contribute to the national [Behavioral Risk Factor Surveillance System](#) that is managed by BSB.

For the 2009 Michigan BRFS, 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, with 7,023 being White, non-Hispanics, 1,573 being Black, non-Hispanics, 390 being Other/Multiracial, non-Hispanics, and 170 being Hispanics. Race/ethnicity was not available for 103 respondents, thus these individuals were excluded from this analysis. Due to relatively small racial-ethnic subgroup sample sizes we were required to combine demographic groups in this analysis. Estimates are reported for subgroups with a sample size of at least 50 respondents. Some of the estimates for these racial-ethnic subgroups are relatively imprecise (i.e., have large confidence intervals) and should be used with caution.

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 by race-ethnicity. 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. These analyses were performed in SAS-Callable SUDAAN®, a statistical computing program that was designed for complex sample surveys.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

2

Table 1: Fair or Poor General Health[a] by Race-Ethnicity 2009 Michigan BRFS									
Demographic Characteristics	**Michigan[b]**		**White, Non-Hispanic**		**Black, Non-Hispanic**		**Other/Multiracial, Non-Hispanic**		**Hispanic**	
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**15.0**	**(14.1-16.0)**	13.7	(12.7-14.7)	21.6	(18.3-25.3)	15.7	(11.7-20.7)	18.9	(12.4-27.8)
Age										
18 - 49	10.4	(9.1-11.9)	9.3	(7.9-10.9)	15.4	(11.1-20.9)	8.9	(4.7-16.4)	15.0	(8.3-25.7)
50 +	21.0	(19.8-22.2)	18.9	(17.7-20.1)	33.0	(29.1-37.3)	27.9	(21.6-35.2)	34.3	(22.3-48.7)
Gender										
Male	14.3	(12.9-15.9)	13.7	(12.2-15.3)	18.0	(13.0-24.3)	14.3	(9.0-22.1)	13.0	(6.4-24.7)
Female	15.7	(14.5-17.0)	13.7	(12.5-15.0)	24.7	(20.8-29.0)	16.9	(11.5-24.1)	25.7	(16.1-38.4)
Education										
High school graduate or less	22.1	(20.3-24.0)	21.2	(19.3-23.3)	24.5	(20.2-29.5)	27.1	(18.1-38.6)	24.1	(13.8-38.7)
Some college or more	10.7	(9.6-11.8)	9.3	(8.3-10.4)	19.4	(14.8-25.0)	10.2	(6.5-15.7)	14.0	(7.1-25.7)
Household Income										
< $35,000	25.4	(23.4-27.5)	24.0	(21.9-26.3)	30.2	(25.3-35.6)	21.9	(14.4-31.8)	32.7	(19.7-49.1)
$35,000 +	9.0	(7.9-10.2)	8.2	(7.1-9.4)	14.8	(9.7-22.1)	10.5	(6.5-16.5)	11.0	(4.9-22.9)

[a] Among all adults, the proportion who reported that their health, in general, was either fair or poor.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

3

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**10.8**	**(10.0-11.7)**	**10.5**	**(9.6-11.4)**	**12.3**	**(10.1-14.8)**	**13.7**	**(9.5-19.2)**	**7.9**	**(4.5-13.4)**
Age										
18 - 49	8.2	(7.0-9.6)	8.3	(6.9-9.9)	8.4	(5.9-11.9)	10.1	(5.2-18.8)	3.5	(1.1-10.6)
50 +	14.1	(13.1-15.1)	13.1	(12.1-14.2)	18.7	(15.6-22.3)	18.7	(13.4-25.6)	22.8	(13.5-35.9)
Gender										
Male	9.5	(8.3-10.8)	9.4	(8.1-11.0)	9.1	(6.5-12.7)	12.6	(6.5-23.3)	5.6	(2.4-12.2)
Female	12.1	(11.0-13.2)	11.5	(10.3-12.7)	14.9	(11.9-18.5)	14.6	(9.9-20.9)	10.6	(5.2-20.4)
Education										
High school graduate or less	14.6	(13.0-16.2)	14.7	(12.9-16.6)	13.7	(10.7-17.5)	18.9	(11.8-28.9)	11.2	(5.5-21.5)
Some college or more	8.5	(7.6-9.5)	8.1	(7.1-9.1)	11.1	(8.3-14.6)	11.2	(6.5-18.6)	4.9	(2.0-11.6)
Household Income										
< $35,000	18.6	(16.8-20.6)	19.5	(17.3-21.8)	17.1	(13.4-21.5)	16.7	(10.7-25.0)	14.1	(6.9-26.7)
$35,000 +	6.3	(5.4-7.4)	6.0	(5.1-7.1)	7.8	(5.3-11.3)	12.2	(5.8-23.9)	2.5	(0.8-7.4)

Table 2: Poor Physical Health on at Least 14 Days in the Past Month[a] by Race-Ethnicity
2009 Michigan BRFS

[a] Among all adults, the proportion who reported 14 or more days of physical health that was not good, which includes physical illness and injury, during the past 30 days.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

4

Table 3: Poor Mental Health on at Least 14 Days in the Past Month[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b] %	Michigan[b] 95% Confidence Interval	White, Non-Hispanic %	White, Non-Hispanic 95% Confidence Interval	Black, Non-Hispanic %	Black, Non-Hispanic 95% Confidence Interval	Other/Multiracial, Non-Hispanic %	Other/Multiracial, Non-Hispanic 95% Confidence Interval	Hispanic %	Hispanic 95% Confidence Interval
Total	**11.2**	**(10.3-12.2)**	10.7	(9.7-11.8)	12.5	(9.9-15.6)	14.5	(10.1-20.5)	14.2	(8.8-22.3)
Age										
18 - 49	12.5	(11.0-14.1)	12.1	(10.5-14.0)	12.8	(9.2-17.5)	15.6	(9.4-24.6)	12.7	(6.7-22.6)
50 +	9.6	(8.7-10.5)	9.0	(8.1-10.0)	12.0	(9.5-15.1)	11.4	(7.5-17.0)	20.3	(11.3-33.8)
Gender										
Male	9.2	(8.0-10.6)	9.2	(7.8-10.8)	9.9	(6.5-14.8)	10.8	(6.1-18.4)	4.1	(1.5-10.5)
Female	13.1	(11.9-14.5)	12.1	(10.8-13.5)	14.8	(11.4-19.0)	17.9	(11.2-27.4)	25.9	(16.2-38.7)
Education										
High school graduate or less	13.9	(12.2-15.8)	13.5	(11.6-15.6)	14.5	(10.4-19.9)	16.1	(8.5-28.3)	17.1	(9.1-29.9)
Some college or more	9.7	(8.6-10.8)	9.1	(8.0-10.3)	11.0	(8.0-15.0)	13.7	(8.7-21.0)	11.4	(5.2-23.3)
Household Income										
< $35,000	17.1	(15.2-19.2)	16.0	(13.8-18.4)	19.4	(14.8-25.1)	20.4	(12.7-31.0)	20.8	(10.4-37.2)
$35,000 +	8.1	(7.1-9.2)	7.9	(6.8-9.2)	7.2	(4.7-10.9)	11.1	(5.6-20.9)	10.4	(5.1-20.2)

[a] Among all adults, the proportion who reported 14 or more days of mental health that was not good, which includes stress, depression, and problems with emotions, during the past 30 days.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

5

Table 4: Activity Limitation on at Least 14 Days in the Past Month[a] by Race-Ethnicity 2009 Michigan BRFS									
	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
Demographic Characteristics	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	6.8	(6.2-7.5)	6.3	(5.6-7.1)	7.6	(6.1-9.5)	10.4	(6.6-16.0)	7.4	(3.7-14.2)
Age										
18 - 49	5.1	(4.2-6.2)	4.6	(3.6-5.9)	5.7	(3.9-8.3)	9.1	(4.3-18.3)	5.9	(2.2-15.3)
50 +	8.8	(8.0-9.7)	8.3	(7.4-9.2)	10.9	(8.5-13.9)	12.1	(8.0-18.0)	13.3	(6.7-24.5)
Gender										
Male	5.8	(4.8-6.8)	5.6	(4.6-6.8)	5.0	(3.2-7.9)	8.8	(3.8-19.3)	3.8	(1.5-9.2)
Female	7.8	(6.9-8.7)	6.9	(6.0-8.0)	9.8	(7.7-12.6)	11.8	(7.1-19.1)	11.7	(5.1-24.7)
Education										
High school graduate or less	10.0	(8.7-11.5)	10.1	(8.6-11.8)	9.3	(6.8-12.5)	14.3	(7.5-25.6)	6.4	(2.5-15.5)
Some college or more	4.8	(4.1-5.6)	4.1	(3.5-4.9)	6.4	(4.6-8.9)	8.8	(4.7-16.0)	8.5	(3.2-20.5)
Household Income										
< $35,000	12.7	(11.3-14.4)	13.2	(11.5-15.2)	10.0	(7.7-12.9)	15.3	(9.0-24.8)	12.5	(5.0-28.0)
$35,000 +	3.6	(2.9-4.4)	3.0	(2.4-3.8)	5.7	(3.4-9.3)	9.1	(3.6-20.8)	4.5	(1.4-13.7)

[a] 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.
[b] Michigan estimates include all racial groups

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

Table 5: Mean Number of Days of Poor Physical Health[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b] Mean	Michigan[b] 95% Confidence Interval	White, Non-Hispanic Mean	White, Non-Hispanic 95% Confidence Interval	Black, Non-Hispanic Mean	Black, Non-Hispanic 95% Confidence Interval	Other/Multiracial, Non-Hispanic Mean	Other/Multiracial, Non-Hispanic 95% Confidence Interval	Hispanic Mean	Hispanic 95% Confidence Interval
Total	3.6	(3.4-3.8)	3.5	(3.3-3.8)	3.9	(3.3-4.5)	4.1	(3.2-5.0)	2.5	(1.4-3.5)
Age										
18 - 49	2.9	(2.6-3.3)	3.0	(2.6-3.4)	2.9	(2.1-3.7)	3.1	(2.0-4.2)	1.2	(0.3-2.0)
50 +	4.4	(4.1-4.6)	4.1	(3.8-4.4)	5.5	(4.7-6.4)	5.6	(4.1-7.2)	6.8	(3.8-9.9)
Gender										
Male	3.1	(2.8-3.5)	3.2	(2.8-3.6)	3.0	(2.3-3.8)	3.2	(1.9-4.5)	1.7	(0.6-2.8)
Female	4.0	(3.7-4.2)	3.8	(3.5-4.1)	4.6	(3.7-5.4)	4.9	(3.6-6.3)	3.3	(1.6-5.1)
Education										
High school graduate or less	4.5	(4.1-4.9)	4.6	(4.1-5.1)	4.2	(3.4-5.1)	5.4	(3.5-7.3)	3.3	(1.4-5.1)
Some college or more	3.0	(2.7-3.2)	2.9	(2.6-3.1)	3.6	(2.8-4.4)	3.5	(2.4-4.5)	1.7	(0.5-2.9)
Household Income										
< $35,000	5.7	(5.2-6.2)	5.9	(5.4-6.5)	5.3	(4.2-6.3)	5.4	(4.0-6.9)	3.4	(1.4-5.4)
$35,000 +	2.4	(2.1-2.6)	2.3	(2.1-2.6)	2.6	(1.8-3.3)	3.4	(1.9-5.0)	1.4	(0.5-2.4)

[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.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

7

Table 6: Mean Number of Days of Poor Mental Health[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b] Mean	95% Confidence Interval	White, Non-Hispanic Mean	95% Confidence Interval	Black, Non-Hispanic Mean	95% Confidence Interval	Other/Multiracial, Non-Hispanic Mean	95% Confidence Interval	Hispanic Mean	95% Confidence Interval
Total	3.7	(3.5-4.0)	3.6	(3.4-3.9)	3.9	(3.3-4.6)	4.3	(3.2-5.5)	4.8	(2.9-6.8)
Age										
18 - 49	4.3	(3.9-4.6)	4.2	(3.8-4.6)	4.1	(3.2-5.1)	4.7	(3.0-6.3)	4.7	(2.3-7.1)
50 +	3.1	(2.8-3.3)	2.9	(2.7-3.2)	3.6	(2.8-4.3)	3.5	(2.3-4.7)	5.3	(2.7-7.8)
Gender										
Male	3.1	(2.7-3.4)	3.0	(2.7-3.4)	3.2	(2.1-4.3)	3.4	(1.9-4.9)	2.3	(0.7-4.0)
Female	4.4	(4.0-4.7)	4.2	(3.8-4.5)	4.5	(3.8-5.3)	5.1	(3.4-6.9)	7.8	(4.5-11.0)
Education										
High school graduate or less	4.2	(3.8-4.7)	4.2	(3.7-4.7)	4.2	(3.0-5.3)	3.9	(2.0-5.9)	5.0	(2.2-7.9)
Some college or more	3.4	(3.2-3.7)	3.3	(3.0-3.5)	3.8	(3.0-4.5)	4.4	(3.0-5.9)	4.7	(2.0-7.4)
Household Income										
< $35,000	5.2	(4.7-5.7)	5.1	(4.5-5.6)	5.3	(4.1-6.5)	5.7	(3.8-7.5)	6.0	(2.1-9.8)
$35,000 +	3.0	(2.7-3.3)	2.9	(2.6-3.2)	3.1	(2.2-3.9)	4.0	(2.1-6.0)	4.2	(1.9-6.5)

[a] 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.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

8

Table 7: Mean Number of Days of Activity Limitation[a] by Race-Ethnicity									
2009 Michigan BRFS									
Demographic Characteristics	**Michigan**[b]		**White, Non-Hispanic**		**Black, Non-Hispanic**		**Other/Multiracial, Non-Hispanic**		**Hispanic**	
	Mean	**95% Confidence Interval**	**Mean**	**95% Confidence Interval**	**Mean**	**95% Confidence Interval**	**Mean**	**95% Confidence Interval**	**Mean**	**95% Confidence Interval**
Total	**2.3**	**(2.1-2.5)**	2.1	(20.-2.3)	2.5	(2.1-2.9)	3.3	(2.2-4.3)	2.4	(1.2-3.7)
Age										
18 - 49	2.0	(1.7-2.2)	1.8	(1.6-2.1)	2.1	(1.5-2.6)	3.0	(1.5-4.5)	2.0	(0.5-3.5)
50 +	2.6	(2.4-2.9)	2.5	(2.3-2.7)	3.2	(2.5-3.9)	3.6	(2.3-4.9)	3.9	(1.7-6.2)
Gender										
Male	2.0	(1.7-2.2)	1.9	(1.7-2.2)	1.6	(1.1-2.2)	2.8	(1.4-4.1)	1.5	(0.4-2.5)
Female	2.6	(2.3-2.8)	2.3	(2.1-2.6)	3.2	(2.6-3.8)	3.8	(2.2-5.4)	3.6	(1.3-5.8)
Education										
High school graduate or less	3.1	(2.7-3.4)	3.0	(2.6-3.4)	3.0	(2.2-3.7)	4.9	(2.2-7.5)	1.9	(0.7-3.2)
Some college or more	1.8	(1.6-2.0)	1.6	(1.5-1.8)	2.1	(1.6-2.6)	2.6	(1.6-3.6)	2.9	(0.7-5.1)
Household Income										
< $35,000	4.0	(3.6-4.4)	4.1	(3.6-4.6)	3.3	(2.6-4.0)	5.4	(3.2-7.5)	3.5	(0.7-6.3)
$35,000 +	1.4	(1.2-1.5)	1.2	(1.1-1.4)	1.9	(1.2-2.5)	2.5	(1.2-3.9)	1.6	(0.5-2.8)

[a] 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.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

9

Table 8: Dissatisfied or Very Dissatisfied with Life[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**6.9**	**(6.1-7.7)**	**6.0**	**(5.2-6.8)**	**10.6**	**(8.3-13.6)**	**9.5**	**(6.0-14.7)**	**10.0**	**(5.4-17.6)**
Age										
18 - 49	7.5	(6.3-8.8)	6.4	(5.2-7.9)	11.8	(8.5-16.2)	9.6	(5.0-17.5)	8.8	(3.9-18.7)
50 +	6.1	(5.4-6.9)	5.5	(4.7-6.3)	8.9	(6.2-12.4)	9.7	(5.9-15.6)	12.8	(5.7-26.1)
Gender										
Male	6.8	(5.7-8.2)	6.3	(5.1-7.7)	9.3	(5.8-14.5)	10.8	(5.2-20.9)	6.6	(2.3-17.8)
Female	6.9	(6.0-7.9)	5.7	(4.8-6.7)	11.8	(8.8-15.6)	8.3	(4.9-13.7)	13.3	(6.6-25.2)
Education										
High school graduate or less	8.5	(7.1-10.1)	7.7	(6.3-9.5)	10.5	(6.8-16.0)	14.4	(6.4-29.2)	9.4	(3.9-20.7)
Some college or more	5.9	(5.1-6.9)	5.0	(4.1-5.9)	10.8	(7.9-14.5)	7.5	(4.5-12.2)	10.5	(4.5-22.6)
Household Income										
< $35,000	12.1	(10.5-14.0)	10.8	(9.0-12.9)	15.2	(11.4-20.1)	15.9	(8.5-27.8)	16.2	(7.0-33.0)
$35,000 +	4.1	(3.3-5.0)	3.7	(2.9-4.7)	5.7	(3.3-9.5)	5.9	(2.8-12.1)	6.9	(2.7-16.7)

[a] Among all adults, the proportion who reported either "Dissatisfied" or "Very Dissatisfied" to the following question: "In general, how satisfied are you with your life?"
[b] Michigan estimates include all racial groups.

Table 9: Rarely or Never Receive Needed Social and Emotional Support[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	8.1	(7.2-9.0)	6.6	(5.9-7.4)	12.1	(9.7-14.9)	11.7	(7.6-17.5)	19.6	(9.3-36.7)
Age										
18 - 49	7.1	(5.8-8.7)	5.2	(4.1-6.5)	10.8	(7.8-14.9)	11.7	(6.3-20.5)	22.0	(9.5-43.1)
50 +	9.0	(8.2-9.9)	8.3	(7.4-9.2)	14.2	(11.1-18.0)	11.7	(7.3-18.1)	11.5	(5.7-21.9)
Gender										
Male	9.9	(8.4-11.6)	8.1	(6.9-9.5)	14.4	(10.1-20.1)	16.9	(9.6-28.2)	27.3	(10.0-56.0)
Female	6.4	(5.6-7.2)	5.2	(4.5-6.1)	10.1	(8.0-12.8)	7.2	(4.2-12.1)	11.8	(6.0-21.9)
Education										
High school graduate or less	11.8	(10.2-13.8)	10.0	(8.6-11.7)	16.9	(12.6-22.3)	13.8	(6.9-25.6)	26.7	(10.4-53.3)
Some college or more	5.7	(4.9-6.7)	4.7	(4.0-5.6)	8.6	(6.2-11.8)	10.3	(5.8-17.7)	13.5	(4.1-36.1)
Household Income										
< $35,000	13.1	(11.5-14.9)	12.1	(10.4-14.0)	17.8	(13.6-22.8)	13.2	(7.1-23.3)	10.3	(4.0-24.2)
$35,000 +	4.8	(3.9-5.9)	3.8	(3.1-4.6)	7.3	(4.7-11.1)	11.8	(5.8-22.7)	16.3	(5.8-38.0)

[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?"
[b] Michigan estimates include all racial groups.

Table 10: Caregiver for Family Member or Friend in Past Month[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**25.4**	**(24.2-26.6)**	**24.9**	**(23.6-26.2)**	**29.7**	**(25.9-33.7)**	**26.3**	**(20.5-33.0)**	**20.2**	**(13.5-29.0)**
Age										
18 - 49	23.1	(21.3-25.0)	22.1	(20.1-24.2)	30.0	(24.7-35.9)	25.6	(17.8-35.5)	14.6	(8.1-24.8)
50 +	28.4	(27.1-29.8)	28.2	(26.8-29.8)	28.9	(24.9-33.3)	26.4	(20.0-33.9)	38.7	(25.9-53.2)
Gender										
Male	21.3	(19.6-23.2)	20.8	(19.0-22.8)	24.9	(19.1-31.6)	24.4	(17.0-33.7)	15.9	(7.8-29.7)
Female	29.1	(27.6-30.8)	28.8	(27.1-30.5)	33.8	(29.4-38.5)	28.0	(19.8-38.0)	25.0	(16.3-36.2)
Education										
High school graduate or less	24.7	(22.7-26.8)	25.1	(22.9-27.4)	24.2	(19.0-30.4)	19.1	(11.8-29.4)	24.8	(14.2-39.6)
Some college or more	25.8	(24.3-27.4)	24.8	(23.2-26.4)	33.7	(28.7-39.1)	29.2	(21.9-37.8)	15.7	(8.8-26.5)
Household Income										
< $35,000	26.4	(24.3-28.7)	25.5	(23.1-28.0)	30.3	(25.3-35.8)	24.9	(15.9-36.9)	27.7	(15.6-44.2)
$35,000 +	25.4	(23.8-27.0)	25.1	(23.4-26.8)	32.0	(25.7-39.1)	25.4	(17.8-35.0)	15.4	(8.5-26.2)

[a] Among all adults, the proportion who reported providing regular care or assistance in the past month to a family member or friend who had a health problem, long-term illness, or disability.
[b] Michigan estimates include all racial groups.

Table 11: Disability[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**22.1**	**(21.0-23.2)**	**22.4**	**(21.2-23.7)**	**21.2**	**(18.3-24.3)**	**21.6**	**(16.7-27.4)**	**15.5**	**(10.1-22.9)**
Age										
18 - 49	15.1	(13.6-16.7)	15.7	(14.0-17.7)	13.7	(10.3-18.1)	15.8	(10.1-23.8)	8.1	(3.9-16.0)
50 +	31.1	(29.8-32.5)	30.4	(28.9-31.9)	35.1	(31.1-39.3)	32.6	(25.7-40.3)	41.0	(27.9-55.6)
Gender										
Male	20.4	(18.7-22.1)	21.3	(19.5-23.2)	16.4	(12.2-21.7)	18.4	(12.0-27.1)	12.8	(6.5-23.8)
Female	23.8	(22.4-25.2)	23.5	(21.9-25.1)	25.3	(21.8-29.1)	24.5	(17.7-32.8)	18.5	(11.2-29.0)
Education										
High school graduate or less	26.8	(24.9-28.8)	28.1	(25.9-30.4)	21.5	(17.6-25.9)	30.1	(20.1-42.3)	18.2	(10.2-30.3)
Some college or more	19.1	(17.9-20.5)	19.2	(17.8-20.7)	20.8	(16.9-25.3)	17.9	(12.8-24.5)	12.9	(6.7-23.2)
Household Income										
< $35,000	33.1	(30.9-35.5)	34.5	(31.8-37.2)	31.3	(26.6-36.4)	32.2	(22.5-43.6)	19.5	(10.8-32.6)
$35,000 +	16.2	(14.9-17.6)	16.7	(15.3-18.2)	13.4	(9.6-18.4)	15.7	(10.3-23.2)	11.7	(5.8-22.5)

[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.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

13

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**20.3**	**(19.2-21.3)**	**20.7**	**(19.6-22.0)**	**18.5**	**(15.8-21.6)**	**19.0**	**(14.6-24.3)**	**14.1**	**(9.1-21.3)**
Age										
18 - 49	14.4	(12.9-16.0)	15.1	(13.4-17.0)	13.1	(9.7-17.4)	13.6	(8.6-20.9)	8.1	(3.9-16.0)
50 +	27.8	(26.5-29.2)	27.5	(26.1-29.0)	28.7	(25.1-32.6)	28.9	(22.3-36.5)	34.4	(22.1-49.1)
Gender										
Male	18.4	(16.9-20.1)	19.5	(17.7-21.4)	14.4	(10.4-19.6)	14.8	(9.6-22.2)	11.4	(5.6-21.7)
Female	22.0	(20.6-23.4)	21.9	(20.4-23.5)	22.1	(18.8-25.8)	22.8	(16.2-30.9)	17.3	(10.1-27.9)
Education										
High school graduate or less	24.2	(22.3-26.2)	25.7	(23.6-28.0)	17.5	(14.1-21.7)	27.0	(17.5-39.2)	16.1	(8.8-27.5)
Some college or more	17.7	(16.5-19.0)	17.9	(16.6-19.3)	19.2	(15.4-23.7)	15.4	(11.0-21.2)	12.3	(6.3-22.7)
Household Income										
< $35,000	30.4	(28.2-32.7)	31.9	(29.3-34.6)	27.5	(23.0-32.6)	29.8	(20.5-41.1)	18.6	(10.1-31.7)
$35,000 +	15.3	(14.0-16.7)	15.9	(14.5-17.4)	12.0	(8.3-16.9)	15.0	(9.7-22.4)	9.7	(4.5-19.8)

Table 12: Any Activity Limitation[a] by Race-Ethnicity
2009 Michigan BRFS

[a] Among all adults, the proportion of respondents who reported being limited in any activities because of physical, mental, or emotional problems.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

Table 13: Used Special Equipment[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	7.8	(7.2-8.5)	7.5	(6.8-8.2)	10.1	(8.3-12.4)	8.4	(5.7-12.3)	5.4	(2.8-10.3)
Age										
18 - 49	3.8	(3.0-4.8)	3.7	(2.9-4.9)	4.8	(2.7-7.9)	4.9	(2.2-10.7)	1.6	(0.3-9.6)
50 - 64	12.9	(12.0-13.9)	11.9	(10.9-12.9)	20.3	(17.3-23.7)	15.0	(10.4-21.2)	18.3	(9.7-31.8)
Gender										
Male	7.4	(6.4-8.5)	7.4	(6.3-8.7)	8.5	(5.5-12.9)	7.8	(3.9-15.1)	3.2	(1.0-10.0)
Female	8.3	(7.5-9.1)	7.6	(6.8-8.4)	11.6	(9.6-13.9)	9.0	(5.8-13.7)	8.0	(3.6-16.5)
Education										
High school graduate or less	10.4	(9.2-11.8)	10.2	(8.8-11.8)	12.0	(9.4-15.2)	10.7	(6.4-17.5)	9.1	(4.2-18.9)
Some college or more	6.2	(5.5-7.0)	5.9	(5.2-6.7)	8.6	(6.2-12.0)	7.5	(4.4-12.7)	1.8	(0.5-6.2)
Household Income										
< $35,000	14.2	(12.7-15.9)	13.9	(12.2-15.9)	16.7	(13.1-21.0)	13.1	(8.5-19.8)	10.1	(4.5-21.4)
$35,000 +	4.0	(3.4-4.8)	4.1	(3.4-5.0)	3.9	(2.4-6.1)	3.6	(1.6-7.8)	2.7	(0.7-9.7)

[a] Among all adults, the proportion of respondents 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.
[b] Michigan estimates include all racial groups.

Table 14: Obesity[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**30.9**	**(29.6-32.3)**	**28.7**	**(27.3-30.1)**	**41.6**	**(37.2-46.1)**	**30.2**	**(24.2-37.1)**	**42.6**	**(30.5-55.7)**
Age										
18 - 49	29.0	(26.9-31.1)	26.0	(23.9-28.3)	41.3	(34.9-47.9)	25.1	(17.3-34.9)	44.6	(29.4-60.7)
50 +	33.4	(31.9-34.9)	32.0	(30.4-33.6)	41.7	(37.2-46.4)	40.2	(32.7-48.2)	34.0	(22.4-47.9)
Gender										
Male	30.8	(28.7-33.0)	29.6	(27.5-31.8)	33.1	(26.2-40.9)	35.4	(26.0-46.2)	41.9	(23.3-63.0)
Female	31.0	(29.4-32.7)	27.8	(26.1-29.6)	49.2	(44.1-54.2)	25.1	(18.4-33.3)	43.5	(31.8-56.0)
Education										
High school graduate or less	33.5	(31.3-35.8)	33.1	(30.8-35.6)	34.2	(28.6-40.3)	31.2	(21.1-43.4)	40.9	(24.4-59.8)
Some college or more	29.3	(27.6-31.0)	26.2	(24.5-27.9)	47.1	(41.1-53.2)	29.6	(22.4-38.1)	44.1	(27.8-61.9)
Household Income										
< $35,000	34.5	(32.1-36.9)	32.1	(29.6-34.8)	41.6	(36.1-47.3)	30.2	(20.9-41.5)	52.1	(34.0-69.6)
$35,000 +	29.9	(28.1-31.8)	27.8	(26.0-29.6)	44.3	(36.2-52.6)	34.2	(25.0-44.8)	40.4	(24.1-59.3)

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.
[a] Among all adults, the proportion of respondents whose BMI was greater than or equal to 30.0.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

16

Table 15: No Health Care Coverage among Adults Aged 18 - 64 Years[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**16.2**	**(14.8-17.6)**	**14.2**	**(12.8-15.7)**	**23.6**	**(19.1-28.8)**	**19.9**	**(13.7-28.1)**	**25.9**	**(16.2-38.6)**
Age										
18 - 49	19.3	(17.4-21.3)	16.9	(15.0-19.0)	27.7	(21.8-34.4)	22.7	(14.6-33.5)	27.2	(16.2-41.9)
50 - 64	9.5	(8.4-10.8)	8.8	(7.6-10.2)	12.3	(8.9-16.7)	12.3	(7.2-20.2)	18.4	(7.6-38.2)
Gender										
Male	19.1	(16.9-21.5)	16.8	(14.6-19.2)	29.3	(21.5-38.4)	27.8	(17.7-40.8)		---[c]
Female	13.3	(11.8-15.0)	11.6	(10.0-13.4)	18.4	(14.0-23.9)	12.7	(6.6-23.0)	30.2	(19.1-44.3)
Education										
High school graduate or less	25.9	(23.1-29.0)	22.4	(19.6-25.5)	35.7	(27.6-44.7)	38.1	(23.2-55.6)	36.3	(43.0-80.4)
Some college or more	11.1	(9.8-12.6)	10.1	(8.7-11.7)	15.3	(10.9-21.1)	13.1	(7.8-21.2)	16.7	(8.4-30.5)
Household Income										
< $35,000	33.1	(29.9-36.4)	32.9	(29.2-36.7)	32.2	(25.7-39.6)	29.6	(18.2-44.2)	44.3	(25.9-64.5)
$35,000 +	7.0	(5.7-8.5)	6.4	(5.2-7.8)	10.3	(4.8-20.8)	8.0	(2.8-20.6)	12.6	(5.9-24.9)

[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.
[b] Michigan estimates include all racial groups
[c] Denominator cell size < 50.

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**13.4**	**(12.3-14.7)**	**11.8**	**(10.6-13.0)**	**19.2**	**(15.5-23.6)**	**22.6**	**(15.7-31.4)**	**17.7**	**(8.6-32.9)**
Age										
18 - 49	19.7	(17.7-21.8)	17.5	(15.6-19.6)	26.2	(20.7-32.6)	29.9	(19.9-42.2)	21.8	(10.4-40.0)
50 +	5.4	(4.7-6.1)	5.0	(4.4-5.8)	6.7	(4.6-9.7)	9.3	(5.7-14.8)	3.1	(1.1-8.6)
Gender										
Male	18.6	(16.6-20.7)	16.9	(14.9-19.0)	26.8	(20.1-34.7)	24.3	(15.7-35.5)	23.3	(8.7-49.1)
Female	8.6	(7.4-10.0)	6.9	(5.9-8.2)	12.7	(9.4-17.0)	21.1	(11.5-35.5)	11.4	(5.4-22.8)
Education										
High school graduate or less	16.0	(13.9-18.3)	13.0	(11.1-15.1)	26.4	(20.3-33.6)	26.1	(14.7-42.1)	22.9	(8.1-50.0)
Some college or more	12.0	(10.6-13.5)	11.0	(9.7-12.6)	13.9	(9.7-19.5)	21.0	(13.0-32.1)	12.8	(6.0-25.2)
Household Income										
< $35,000	20.9	(18.5-23.5)	18.5	(16.0-21.2)	25.1	(19.7-31.5)	36.2	(23.2-51.5)	19.2	(8.9-36.5)
$35,000 +	8.9	(7.6-10.4)	8.5	(7.2-10.0)	12.1	(6.9-20.4)	10.5	(5.1-20.2)	9.0	(4.0-19.2)

Table 16: No Personal Health Care Provider[a] by Race-Ethnicity
2009 Michigan BRFS

[a] Among all adults, the proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

Table 17: No Health Care Access during Past 12 Months Due to Cost[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**13.9**	**(12.9-15.0)**	**12.2**	**(11.1-13.3)**	**20.3**	**(16.7-24.5)**	**21.4**	**(16.1-27.9)**	**16.8**	**(10.7-25.5)**
Age										
18 - 49	17.0	(15.4-18.8)	15.0	(13.3-16.9)	23.8	(18.5-30.1)	24.5	(16.9-34.3)	19.0	(11.3-30.2)
50 +	9.6	(8.7-10.6)	8.9	(7.9-9.9)	14.0	(11.1-17.4)	14.1	(9.6-20.3)	9.1	(4.5-17.8)
Gender										
Male	13.3	(11.7-15.1)	11.5	(10.0-13.3)	20.9	(14.6-28.8)	26.0	(17.5-36.9)	8.9	(3.8-19.5)
Female	14.5	(13.2-15.8)	12.8	(11.5-14.2)	19.9	(16.3-24.2)	17.2	(11.5-24.8)	25.9	(16.2-38.8)
Education										
High school graduate or less	18.8	(16.8-21.0)	17.3	(15.2-19.5)	23.4	(17.0-31.3)	29.2	(18.2-43.3)	20.4	(10.9-35.0)
Some college or more	10.9	(9.8-12.1)	9.3	(8.2-10.5)	18.1	(14.4-22.6)	17.9	(12.5-24.9)	13.2	(6.7-24.4)
Household Income										
< $35,000	25.9	(23.6-28.3)	24.6	(22.1-27.3)	25.8	(20.6-31.8)	34.2	(23.6-46.7)	35.2	(21.2-52.2)
$35,000 +	6.9	(5.9-8.0)	6.6	(5.6-7.8)	8.4	(5.5-12.6)	9.8	(5.6-16.7)	5.9	(2.7-12.4)

[a] 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.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

19

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
Table 18: No Leisure-Time Physical Activity[a] by Race-Ethnicity **2009 Michigan BRFS**										
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**24.1**	**(22.9-25.3)**	**23.1**	**(21.9-24.4)**	**30.6**	**(26.9-34.5)**	**21.3**	**(16.7-26.7)**	**26.6**	**(16.6-39.7)**
Age										
18 - 49	20.2	(18.4-22.1)	18.9	(17.0-20.9)	28.3	(23.2-34.1)	13.5	(8.4-20.8)	24.9	(13.2-42.0)
50 +	29.0	(27.7-30.4)	28.0	(26.5-29.4)	34.8	(30.8-39.1)	34.0	(27.1-41.7)	32.1	(20.9-46.0)
Gender										
Male	22.2	(20.3-24.1)	22.0	(20.1-24.1)	23.7	(18.3-30.2)	20.8	(14.6-28.7)	21.8	(8.0-47.3)
Female	25.9	(24.5-27.4)	24.0	(22.5-25.7)	36.6	(32.1-41.3)	21.7	(15.4-29.8)	32.0	(21.9-44.1)
Education										
High school graduate or less	33.8	(31.6-36.1)	32.9	(30.6-35.3)	37.3	(31.2-43.9)	33.4	(23.5-44.9)	37.7	(21.0-57.9)
Some college or more	18.2	(17.0-19.6)	17.4	(16.1-18.9)	25.6	(21.2-30.5)	15.9	(11.1-22.2)	15.6	(8.4-27.3)
Household Income										
< $35,000	33.5	(31.2-35.8)	33.4	(30.8-36.1)	38.4	(33.0-44.1)	26.9	(18.8-36.9)	23.5	(13.2-38.2)
$35,000 +	18.1	(16.7-19.6)	17.5	(16.0-19.0)	23.9	(18.4-30.5)	17.3	(11.0-26.2)	19.1	(10.7-31.8)

[a] Among all adults, the proportion who reported not participating in any leisure-time physical activities or exercises such as running, calisthenics, golf, gardening, or walking in the past month.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

Table 19: Inadequate Physical Activity[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**48.6**	**(47.1-50.1)**	**47.9**	**(46.3-49.6)**	**54.6**	**(49.8-59.3)**	**44.6**	**(37.2-52.4)**	**49.8**	**(36.9-62.8)**
Age										
18 - 49	44.7	(42.4-47.1)	44.1	(41.5-46.7)	49.5	(42.8-56.3)	39.3	(29.6-49.9)	48.5	(32.6-64.6)
50 +	53.9	(52.3-55.5)	52.7	(51.0-54.4)	64.1	(59.1-68.9)	54.9	(46.4-63.0)	53.8	(39.2-67.8)
Gender										
Male	46.3	(43.9-48.7)	46.9	(44.4-49.4)	46.8	(38.7-55.0)	39.1	(29.3-50.0)	43.1	(23.1-65.7)
Female	50.9	(49.0-52.7)	48.9	(46.8-51.0)	61.4	(56.3-66.3)	49.5	(38.5-60.4)	57.4	(44.5-69.4)
Education										
High school graduate or less	53.6	(51.0-56.1)	52.3	(49.6-55.1)	58.1	(50.2-65.5)	56.5	(42.1-69.9)	59.8	(41.4-75.9)
Some college or more	45.9	(44.0-47.8)	45.6	(43.6-47.6)	52.2	(46.1-58.3)	39.8	(31.3-48.9)	42.1	(26.6-59.4)
Household Income										
< $35,000	54.6	(51.9-57.4)	54.4	(51.3-57.5)	60.2	(53.8-66.2)	42.5	(30.3-55.6)	53.9	(37.7-69.3)
$35,000 +	44.9	(42.9-47.0)	44.9	(42.8-47.0)	48.3	(40.1-56.7)	39.6	(30.3-49.6)	44.8	(28.3-62.6)

[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.
[b] Michigan estimates include all racial groups.
[c] Denominator cell size < 50.

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
Table 20: Inadequate Fruit & Vegetable Consumption[a] by Race-Ethnicity **2009 Michigan BRFS**										
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	77.8	(76.6-79.0)	77.5	(76.2-78.8)	80.4	(76.8-83.6)	73.4	(66.4-79.4)	82.5	(71.1-90.0)
Age										
18 - 49	79.2	(77.3-81.1)	78.9	(76.7-80.9)	83.2	(77.9-87.4)	72.9	(62.6-81.1)	81.5	(66.9-90.6)
50 +	76.0	(74.6-77.2)	75.9	(74.5-77.3)	75.5	(70.9-79.6)	73.9	(66.2-80.3)	85.4	(74.6-92.1)
Gender										
Male	81.9	(79.9-83.6)	81.7	(79.7-83.6)	83.6	(76.9-89.0)	78.8	(68.6-86.3)	84.0	(62.1-94.4)
Female	74.1	(72.5-75.6)	73.5	(71.8-75.2)	77.5	(73.6-81.0)	68.6	(58.5-77.2)	80.8	(69.4-88.6)
Education										
High school graduate or less	83.4	(91.5-85.1)	83.4	(81.4-85.1)	82.0	(75.5-87.1)	82.8	(69.5-91.0)	88.0	(75.0-94.7)
Some college or more	74.6	(72.9-76.1)	74.2	(72.4-75.9)	79.4	(74.8-83.3)	69.2	(60.4-76.8)	77.3	(58.8-89.0)
Household Income										
< $35,000	80.0	(78.0-81.9)	78.9	(76.5-81.2)	81.4	(77.2-85.0)	81.5	(71.4-88.6)	89.7	(3.9-24.6)
$35,000 +	75.8	(74.0-77.6)	76.0	(74.2-77.8)	76.7	(69.0-83.0)	68.3	(57.8-77.1)	78.7	(58.9-90.5)

[a] Among all adults, the proportion whose total reported consumption of fruits (including juice) and vegetables was less than five times per day.
[b] Michigan estimates include all racial groups.
[c] Denominator cell size < 50.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

22

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**19.8**	**(18.6-21.0)**	**19.3**	**(18.1-20.7)**	**21.6**	**(18.3-25.4)**	**22.0**	**(16.7-28.3)**	**20.8**	**(12.6-32.3)**
Age										
18 - 49	23.4	(21.5-25.4)	23.6	(21.6-25.9)	22.0	(17.3-27.5)	23.9	(16.5-33.3)	23.7	(13.6-38.1)
50 +	15.2	(14.1-16.3)	14.3	(13.2-15.5)	21.7	(18.1-25.8)	18.8	(13.3-25.8)	9.7	(4.3-20.4)
Gender										
Male	21.5	(19.7-23.5)	21.2	(19.2-23.3)	24.3	(18.6-31.1)	25.6	(17.5-35.7)	16.2	(5.8-37.9)
Female	18.2	(16.8-19.6)	17.6	(16.1-19.2)	19.4	(15.9-23.4)	18.7	(12.5-27.0)	25.9	(16.5-38.3)
Education										
High school graduate or less	28.6	(26.4-30.9)	29.0	(26.6-31.5)	27.5	(21.6-34.3)	29.8	(20.0-41.8)	24.2	(13.7-39.1)
Some college or more	14.6	(13.4-16.0)	13.9	(12.5-15.3)	17.2	(13.8-21.3)	18.7	(12.8-26.7)	17.5	(6.8-38.2)
Household Income										
< $35,000	29.9	(27.5-32.3)	29.9	(27.2-32.7)	31.2	(25.8-37.3)	27.4	(18.5-38.5)	27.4	(15.3-44.0)
$35,000 +	15.0	(13.6-16.6)	14.8	(13.3-16.4)	15.0	(10.7-20.7)	17.7	(10.7-28.0)	18.6	(7.3-39.9)

Table 21: Current Smoking[a] by Race-Ethnicity
2009 Michigan BRFS

[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.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	3.4	(2.9-4.0)	3.5	(2.9-4.2)	2.0	(1.1-3.7)	5.3	(2.6-10.2)	3.2	(1.3-7.8)
Age										
18 - 49	4.6	(3.7-5.7)	5.0	(4.0-6.3)	2.2	(0.9-4.9)	6.5	(2.8-14.5)	2.8	(1.0-8.0)
50 +	1.9	(1.5-2.4)	1.8	(1.4-2.3)	1.8	(0.8-4.1)	2.6	(1.2-5.5)	4.8	(0.9-21.9)
Gender										
Male	6.0	(5.0-7.2)	6.3	(5.2-7.7)	2.8	(1.2-6.3)	10.1	(4.8-19.9)	4.4	(1.3-13.5)
Female	1.0	(0.7-1.4)	0.9	(0.5-1.4)	1.3	(0.5-3.3)	0.8	(0.3-2.5)	1.9	(0.6-6.2)
Education										
High school graduate or less	5.3	(4.3-6.6)	5.4	(4.2-6.9)	3.9	(1.9-7.9)	8.5	(3.2-20.4)	5.9	(2.2-15.1)
Some college or more	2.3	(1.7-3.0)	2.4	(1.8-3.3)	0.6	(0.2-1.4)	3.9	(1.4-10.1)	0.6	(0.1-4.1)
Household Income										
< $35,000	4.9	(3.8-6.2)	5.3	(4.0-7.0)	3.3	(1.6-6.9)	4.4	(1.8-10.8)	5.4	(1.7-15.7)
$35,000 +	2.4	(1.8-3.1)	2.7	(2.0-3.6)	0.2	(0.1-0.7)	1.8	(0.5-6.2)	0.8	(0.1-3.9)

Table 22: Current Smokeless Tobacco Use[a] by Race-Ethnicity
2009 Michigan BRFS

[a] Among all adults, the proportion who reported that they currently use chewing tobacco, snuff, or snus, either every day or on some days.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

24

Table 23: Heavy Drinking[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	5.2	(4.5-5.9)	5.5	(4.8-6.3)	2.5	(1.5-4.1)	6.9	(3.6-12.9)	4.6	(1.9-10.7)
Age										
18 - 49	5.9	(4.9-7.0)	6.3	(5.2-7.7)	3.0	(1.6-5.6)	7.8	(3.3-17.2)	4.3	(1.5-12.1)
50 +	4.4	(3.8-5.1)	4.6	(3.9-5.4)	1.7	(1.0-2.9)	5.6	(3.0-10.4)	5.5	(1.3-20.6)
Gender										
Male	6.5	(5.5-7.8)	7.1	(5.9-8.6)	3.0	(1.5-5.8)	7.8	(3.7-15.7)	5.6	(1.9-15.9)
Female	3.9	(3.2-4.7)	4.0	(3.3-4.8)	2.1	(1.1-4.3)	6.2	(2.1-17.2)	3.3	(0.7-14.2)
Education										
High school graduate or less	5.2	(4.2-6.4)	5.5	(4.4-6.8)	1.4	(0.7-3.0)	9.9	(4.5-20.5)	7.9	(2.9-19.8)
Some college or more	5.2	(4.4-6.1)	5.5	(4.7-6.6)	3.3	(1.8-5.9)	5.8	(2.2-14.3)	1.4	(0.2-7.7)
Household Income										
< $35,000	5.1	(4.0-6.5)	4.8	(3.7-6.3)	3.6	(1.9-6.6)	10.7	(4.1-25.1)	7.3	(2.1-22.7)
$35,000 +	6.0	(5.1-7.1)	6.5	(5.5-7.7)	2.1	(0.9-4.8)	6.9	(3.1-14.9)	3.8	(1.2-11.6)

[a] Among all adults, the proportion who reported consuming on average more than two alcoholic beverages per day for men or more than one per day for women in the previous month.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

Table 24: Binge Drinking[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	16.9	(15.8-18.1)	18.5	(17.2-19.9)	9.3	(6.9-12.5)	14.7	(10.4-20.4)	13.7	(8.4-21.6)
Age										
18 - 49	22.6	(20.7-24.6)	25.9	(23.6-28.2)	11.1	(7.5-16.0)	15.7	(9.8-24.3)	12.7	(7.0-22.2)
50 +	9.8	(8.9-10.9)	9.9	(8.9-11.1)	6.2	(4.4-8.7)	13.4	(8.9-19.5)	17.5	(8.4-33.1)
Gender										
Male	23.8	(21.8-25.9)	25.8	(23.6-28.2)	15.0	(10.2-21.6)	21.5	(14.1-31.3)	13.6	(6.5-26.3)
Female	10.5	(9.4-11.8)	11.6	(10.2-13.1)	4.5	(3.1-6.5)	8.7	(4.6-15.8)	13.9	(7.3-24.7)
Education										
High school graduate or less	16.0	(14.2-18.1)	16.6	(14.5-18.9)	11.6	(7.1-18.3)	18.5	(10.7-30.0)	18.2	(9.5-31.9)
Some college or more	17.6	(16.1-19.2)	19.6	(17.9-21.4)	7.7	(5.5-10.8)	12.9	(8.1-20.0)	9.6	(4.5-19.5)
Household Income										
< $35,000	14.2	(12.3-16.4)	14.7	(12.4-17.3)	12.6	(8.3-18.8)	12.4	(7.3-20.3)	15.8	(7.2-31.0)
$35,000 +	20.1	(18.5-21.9)	21.8	(20.0-23.7)	8.1	(5.2-12.5)	15.3	(9.3-24.1)	16.5	(8.9-28.6)

[a] Among all adults, the proportion who reported consuming five or more drinks per occasion at least once in the previous month.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

26

Table 25: Ever Told High Blood Pressure[a] by Race-Ethnicity **2009 Michigan BRFS**									
Demographic Characteristics	**Michigan[b]**		**White, Non-Hispanic**		**Black, Non-Hispanic**		**Other/Multiracial, Non-Hispanic**		**Hispanic**
	%	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**	**%**	**95% Confidence Interval**
Total	**30.4**	**(29.2-31.6)**	**29.8**	**(28.5-31.1)**	**36.8**	**(32.8-40.9)**	**26.6**	**(21.2-32.7)**	**21.4**	**(13.6-32.0)**
Age										
18 - 49	16.3	(14.7-18.1)	15.3	(13.6-17.2)	22.1	(17.1-28.0)	17.8	(11.5-26.4)	13.5	(5.9-28.0)
50 +	48.4	(46.9-49.9)	46.9	(45.2-48.5)	63.4	(58.6-68.0)	42.6	(35.3-50.3)	48.2	(34.8-61.8)
Gender										
Male	32.6	(30.6-34.7)	32.2	(30.1-34.3)	36.0	(29.2-43.5)	31.8	(23.2-41.9)	24.8	(12.3-43.8)
Female	28.4	(27.0-29.8)	27.5	(26.0-29.1)	37.5	(33.3-41.8)	21.8	(16.0-29.0)	17.5	(11.3-25.9)
Education										
High school graduate or less	36.8	(34.6-39.0)	37.3	(35.0-39.7)	35.5	(30.0-41.4)	40.2	(28.6-53.1)	27.9	(14.7-46.5)
Some college or more	26.3	(24.9-27.8)	25.5	(24.0-27.1)	37.5	(32.1-43.3)	20.3	(15.1-26.7)	15.2	(9.0-24.7)
Household Income										
< $35,000	38.1	(35.8-40.5)	38.8	(36.2-41.5)	39.1	(34.0-44.4)	34.8	(24.5-46.7)	27.4	(13.1-48.7)
$35,000 +	25.8	(24.3-27.5)	25.0	(23.4-26.7)	36.3	(29.1-44.3)	25.1	(18.0-33.8)	18.6	(10.7-30.3)

[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.
[b] Michigan estimates include all racial groups.
[c] Denominator cell size < 50.

Table 26: Inadequate Sleep[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**27.8**	**(26.5-29.2)**	**26.5**	**(25.1-28.0)**	**32.3**	**(28.0-36.8)**	**32.6**	**(25.8-40.2)**	**32.0**	**(22.0-43.9)**
Age										
18 - 49	32.8	(30.6-35.0)	31.7	(29.4-34.1)	36.4	(30.2-43.1)	36.5	(26.8-47.4)	34.6	(22.3-49.5)
50 +	21.1	(19.8-22.4)	20.4	(19.1-21.8)	24.5	(20.7-28.8)	24.5	(18.2-32.2)	23.1	(12.6-38.4)
Gender										
Male	26.6	(24.5-28.9)	25.8	(23.6-28.1)	29.6	(22.5-37.8)	33.0	(23.1-44.8)	23.8	(11.0-43.9)
Female	28.9	(27.3-30.6)	27.2	(25.5-29.0)	34.7	(30.0-39.6)	32.2	(23.5-42.2)	41.0	(29.3-53.8)
Education										
High school graduate or less	28.2	(26.0-30.5)	27.5	(25.2-30.0)	29.9	(23.6-37.0)	39.9	(27.6-53.6)	22.6	(12.6-37.3)
Some college or more	27.5	(25.8-29.2)	25.9	(24.2-27.7)	34.0	(28.4-40.0)	29.3	(21.5-38.5)	40.7	(25.6-57.9)
Household Income										
< $35,000	29.4	(27.0-31.8)	28.0	(25.4-30.8)	33.2	(27.8-39.1)	31.8	(21.1-44.8)	32.3	(18.5-50.1)
$35,000 +	27.6	(25.8-29.5)	26.6	(24.7-28.5)	31.0	(24.0-39.0)	34.2	(24.7-45.2)	36.0	(21.3-54.0)

[a] Among all adults, the proportion who reported 14 or more days of poor rest or sleep, during the past 30 days.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

28

Table 27: Cholesterol Ever Checked[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**83.3**	**(81.9-84.6)**	**83.8**	**(82.3-85.2)**	**80.8**	**(76.2-84.7)**	**82.2**	**(73.4-88.5)**	**81.5**	**(66.3-90.8)**
Age										
18 - 49	73.3	(70.9-75.5)	72.8	(70.2-75.2)	73.7	(67.0-79.5)	74.6	(62.1-84.0)	78.2	(59.5-89.8)
50 +	95.8	(95.1-96.4)	96.1	(95.4-96.7)	93.2	(90.2-95.4)	95.4	(91.7-97.5)	92.8	(78.8-97.8)
Gender										
Male	81.4	(79.1-83.5)	81.5	(79.1-83.7)	76.1	(67.8-82.8)	87.6	(78.8-93.1)	84.5	(52.5-96.4)
Female	85.1	(83.4-86.7)	86.0	(84.1-87.7)	85.0	(80.1-88.8)	77.4	(63.2-87.2)	78.1	(64.8-87.4)
Education										
High school graduate or less	79.1	(76.6-81.5)	80.0	(77.4-82.4)	74.9	(67.1-81.4)	88.6	(79.5-94.0)	67.9	(44.5-84.7)
Some college or more	85.7	(84.0-87.3)	86.0	(84.1-87.7)	85.1	(79.3-89.5)	79.3	(67.6-87.6)	94.1	(85.4-97.8)
Household Income										
< $35,000	77.3	(74.5-79.8)	78.0	(74.9-80.8)	76.9	(70.6-82.2)	70.0	(52.7-83.0)	78.0	(60.9-89.0)
$35,000 +	87.9	(86.2-89.4)	87.4	(85.6-89.1)	87.9	(79.3-93.3)	91.0	(82.9-95.5)	96.4	(87.0-99.1)

[a] Among all adults, the proportion who reported ever having had their blood cholesterol checked.
[b] Michigan estimates include all racial groups.
[c] Denominator cell size < 50.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

Table 28: Ever Told High Cholesterol[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**38.9**	**(37.5-40.2)**	**40.4**	**(38.9-41.9)**	**32.7**	**(28.9-36.7)**	**37.9**	**(31.3-45.0)**	**28.2**	**(19.6-38.7)**
Age										
18 - 49	24.5	(22.5-26.7)	25.3	(23.0-27.8)	20.0	(15.3-25.8)	26.1	(18.1-36.0)	23.8	(14.4-36.8)
50 +	53.0	(51.5-54.6)	53.4	(51.7-55.0)	51.1	(46.3-55.8)	56.1	(48.1-63.8)	40.3	(27.3-54.8)
Gender										
Male	41.2	(38.9-43.5)	43.4	(41.0-45.8)	32.6	(25.9-40.1)	40.6	(30.2-51.9)	24.1	(13.3-39.6)
Female	36.8	(35.2-38.5)	37.7	(35.9-39.6)	32.8	(28.6-37.2)	35.2	(27.3-44.0)	33.2	(22.2-46.5)
Education										
High school graduate or less	44.4	(42.0-46.8)	46.7	(44.1-49.3)	36.0	(29.8-42.7)	37.4	(25.5-51.1)	36.5	(22.6-53.0)
Some college or more	35.9	(34.2-37.6)	37.0	(35.2-38.9)	30.6	(25.9-35.9)	38.6	(30.8-47.0)	22.4	(12.7-36.4)
Household Income										
< $35,000	44.1	(41.5-46.6)	46.4	(43.5-49.3)	37.6	(32.1-43.4)	47.8	(36.2-59.7)	25.3	(13.7-41.9)
$35,000 +	36.1	(34.3-37.9)	37.5	(35.6-39.5)	25.8	(20.5-31.9)	35.5	(26.4-45.7)	29.0	(17.3-44.3)

[a] 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.
[b] Michigan estimates include all racial groups.
[c] Denominator cell size < 50.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

30

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**30.9**	**(29.5-32.3)**	**31.8**	**(30.3-33.4)**	**22.1**	**(18.3-26.5)**	**32.6**	**(25.9-40.1)**	**39.9**	**(28.4-52.7)**
Age										
18 - 49	38.0	(35.8-40.3)	39.9	(37.4-42.4)	26.0	(20.4-32.4)	38.0	(28.2-48.8)	43.4	(29.0-58.9)
50 +	22.0	(20.7-23.3)	22.6	(21.2-24.0)	15.2	(11.8-19.4)	24.3	(18.1-31.9)	26.8	(16.0-41.3)
Gender										
Male	37.4	(35.1-39.7)	38.4	(36.1-40.9)	30.0	(22.9-38.1)	39.3	(29.0-50.6)	37.0	(19.7-58.5)
Female	24.8	(23.2-26.4)	25.6	(23.8-27.5)	15.5	(12.4-19.2)	26.4	(18.8-35.6)	43.2	(31.4-55.8)
Education										
High school graduate or less	31.4	(29.1-33.9)	31.4	(29.0-34.0)	23.8	(17.7-31.3)	41.1	(28.3-55.2)	46.3	(28.7-64.9)
Some college or more	30.7	(28.9-32.4)	32.0	(30.1-34.0)	21.0	(16.4-26.4)	29.1	(21.8-37.7)	33.8	(21.3-49.1)
Household Income										
< $35,000	34.1	(31.6-36.7)	35.6	(32.8-38.6)	25.6	(20.3-31.7)	33.0	(22.4-45.6)	46.8	(30.3-64.1)
$35,000 +	29.5	(27.6-31.4)	30.8	(28.9-32.9)	18.0	(12.0-26.2)	30.8	(22.0-41.2)	24.1	(14.1-38.1)

Table 29: No Routine Checkup in Past Year[a] by Race-Ethnicity
2009 Michigan BRFS

[a] Among all adults, the proportion who reported that they did not have a routine checkup in the past year.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

Table 30: Had Flu Vaccine in Past Year among Adults 65 Years and Older[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	69.0	67.0-70.9)	71.0	(68.9-73.0)	56.0	(49.7-62.2)	49.9	(37.9-61.9)		---[c]
Gender										
Male	69.3	(66.1-72.4)	70.4	(66.9-73.7)	59.0	(47.6-69.4)		---[c]		---[c]
Female	68.8	(66.3-71.1)	71.4	(68.8-73.9)	54.1	(46.6-61.4)		---[c]		---[c]
Education										
High school graduate or less	67.1	(64.3-69.7)	68.9	(65.9-71.8)	54.0	(45.4-62.3)		---[c]		---[c]
Some college or more	71.6	(68.8-74.3)	73.1	(70.2-75.9)	59.1	(49.4-68.1)		---[c]		---[c]
Household Income										
< $35,000	67.3	(64.4-70.1)	69.4	(66.2-72.4)	54.1	(46.1-62.0)		---[c]		---[c]
$35,000 +	71.0	(67.5-74.2)	72.1	(68.5-75.5)	61.2	(47.3-73.4)		---[c]		---[c]

[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.
[b] Michigan estimates include all racial groups.
[c] Denominator cell size < 50.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

32

Table 31: Ever Had Pneumonia Vaccine among Adults 65 Years and Older[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**67.3**	**(65.3-69.3)**	69.7	(67.6-71.7)	50.7	(44.3-57.2)	55.3	(42.7-67.2)		---[c]
Gender										
Male	65.0	(61.7-68.2)	67.0	(63.4-70.4)	46.6	(35.4-58.0)		---[c]		---[c]
Female	69.0	(66.5-71.4)	71.7	(69.0-74.2)	53.5	(46.0-61.0)		---[c]		---[c]
Education										
High school graduate or less	66.0	(63.1-68.7)	68.0	(65.0-70.9)	53.8	(45.1-62.3)		---[c]		---[c]
Some college or more	69.1	(66.2-71.8)	71.4	(68.3-74.2)	47.5	(38.0-57.2)		---[c]		---[c]
Household Income										
< $35,000	67.4	(64.5-70.3)	69.5	(66.3-72.5)	56.3	(48.0-64.3)		---[c]		---[c]
$35,000 +	68.0	(64.5-71.3)	69.8	(66.2-73.3)	48.7	(35.4-62.3)		---[c]		---[c]

[a] Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine.
[b] Michigan estimates include all racial groups.
[c] Denominator cell size < 50.

Table 32: Ever Had an HIV Test among Adults 18 – 64 Years of Age[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**38.2**	**(36.5-39.9)**	**33.6**	**(31.8-35.3)**	**63.3**	**(58.2-68.2)**	**40.0**	**(32.2-48.3)**	**45.2**	**(32.5-58.7)**
Age										
18 - 49	44.6	(42.3-47.0)	39.8	(37.3-42.3)	70.1	(63.3-76.0)	43.8	(33.5-54.6)	49.0	(34.0-64.2)
50 - 64	24.1	(22.4-26.0)	21.4	(19.5-23.3)	44.1	(37.9-50.4)	29.4	(20.9-39.5)		---[c]
Gender										
Male	34.0	(31.4-36.6)	29.5	(27.0-32.2)	58.2	(49.0-66.8)	39.6	(28.6-51.8)		---[c]
Female	42.3	(40.2-44.5)	37.6	(35.3-40.0)	67.9	(62.7-72.8)	40.4	(29.8-52.0)	51.8	(38.7-64.7)
Education										
High school graduate or less	33.1	(30.3-36.1)	27.5	(24.6-30.5)	59.3	(50.8-67.2)	43.7	(28.1-60.8)	32.5	(18.3-50.9)
Some college or more	40.7	(38.6-42.8)	36.5	(34.4-38.7)	66.0	(59.4-72.1)	38.6	(30.0-47.9)	55.1	(37.6-71.3)
Household Income										
< $35,000	44.1	(40.9-47.3)	36.2	(32.6-39.9)	69.3	(63.1-74.9)	45.5	(31.2-60.6)		---[c]
$35,000 +	37.6	(35.5-39.8)	34.5	(32.4-36.8)	62.5	(53.3-70.9)	36.7	(27.3-47.3)	50.5	(32.7-68.1)

[a] Among adults aged 18-64 years, the proportion who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

34

Table 33: Lifetime Asthma Prevalence - Adult[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**15.6**	**(14.6-16.7)**	**14.7**	**(13.6-15.9)**	**18.2**	**(15.0-21.9)**	**24.3**	**(18.4-31.4)**	**14.1**	**(8.7-21.9)**
Age										
18 - 49	17.5	(15.8-19.3)	16.7	(14.9-18.7)	19.0	(14.5-24.4)	26.8	(18.4-37.3)	12.7	(6.8-22.5)
50 +	13.1	(12.2-14.2)	12.2	(11.2-13.3)	17.3	(13.7-21.7)	19.6	(14.0-26.7)	19.5	(10.8-32.5)
Gender										
Male	12.8	(11.3-14.5)	11.9	(10.4-13.7)	16.6	(11.6-23.3)	20.7	(12.8-31.9)	7.1	(2.9-16.1)
Female	18.3	(16.9-19.7)	17.3	(15.7-18.9)	19.5	(15.9-23.8)	27.6	(19.6-37.4)	22.1	(13.3-34.5)
Education										
High school graduate or less	15.6	(13.9-17.5)	14.0	(12.3-16.0)	19.4	(14.1-26.0)	34.5	(22.2-49.3)	12.0	(6.3-21.6)
Some college or more	15.6	(14.3-17.0)	15.1	(13.7-16.6)	17.4	(13.7-21.7)	20.0	(14.2-27.4)	16.0	(8.0-29.4)
Household Income										
< $35,000	18.0	(16.1-20.0)	16.9	(14.8-19.2)	19.8	(15.7-24.5)	25.9	(17.1-37.0)	17.4	(8.4-32.5)
$35,000 +	13.7	(12.4-15.1)	13.2	(11.8-14.7)	16.4	(11.8-22.4)	18.6	(12.3-27.0)	12.8	(9.3-24.3)

[a] Among all adults, the proportion who reported that they were told by a doctor, nurse, or other health care professional that they had asthma.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
Table 34: Current Asthma Prevalence - Adult[a] by Race-Ethnicity 2009 Michigan BRFS										
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	9.9	(9.1-10.8)	9.3	(8.5-10.3)	11.2	(8.7-14.4)	14.4	(10.2-20.1)	10.5	(6.3-17.2)
Age										
18 - 49	10.6	(9.2-12.0)	10.1	(8.7-11.8)	12.2	(8.5-17.2)	12.7	(7.3-21.2)	9.5	(4.8-17.7)
50 +	9.1	(8.3-9.9)	8.4	(7.6-9.3)	9.7	(7.4-12.6)	17.8	(12.4-25.0)	14.6	(7.3-26.9)
Gender										
Male	7.3	(6.2-8.6)	6.9	(5.7-8.3)	8.7	(4.9-15.0)	11.7	(6.6-19.8)	4.8	(1.8-12.5)
Female	12.3	(11.1-13.5)	11.6	(10.4-13.0)	13.4	(10.5-17.1)	17.0	(10.9-25.5)	17.1	(9.8-28.2)
Education										
High school graduate or less	11.0	(9.6-12.7)	10.0	(8.6-11.7)	13.4	(8.9-19.7)	22.5	(13.1-35.7)	9.9	(4.9-19.0)
Some college or more	9.2	(8.2-10.3)	8.9	(7.9-10.1)	9.6	(7.1-13.0)	11.0	(7.1-16.8)	11.0	(5.1-22.2)
Household Income										
< $35,000	12.9	(11.3-14.6)	12.8	(10.9-14.9)	12.4	(9.5-16.0)	15.7	(9.6-24.6)	12.3	(5.7-24.5)
$35,000 +	7.8	(6.9-8.8)	7.5	(6.5-8.6)	8.1	(5.1-12.7)	11.7	(7.2-18.5)	9.4	(4.1-20.0)

[a] Among all adults, the proportion who reported that they still had asthma.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

36

Table 35: Ever Told Arthritis[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	**31.3**	**(30.1-32.5)**	32.5	(31.2-33.9)	28.4	(25.2-31.9)	27.0	(21.4-33.5)	15.5	(10.3-22.7)
Age										
18 - 49	15.9	(14.5-17.5)	16.8	(15.2-18.6)	13.5	(10.3-17.5)	16.1	(9.8-25.2)	8.3	(4.2-15.9)
50 +	51.1	(49.6-52.6)	51.0	(49.3-52.6)	55.1	(50.3-59.8)	48.5	(40.6-56.5)	39.6	(26.9-53.9)
Gender										
Male	26.5	(24.8-28.3)	28.2	(26.2-30.1)	19.3	(15.1-24.4)	27.7	(19.0-38.4)	9.4	(4.3-19.4)
Female	35.7	(34.1-37.3)	36.6	(34.9-38.5)	36.2	(32.0-40.5)	26.4	(19.7-34.3)	22.2	(14.5-32.5)
Education										
High school graduate or less	36.9	(34.8-39.0)	38.8	(36.5-41.2)	29.8	(25.0-35.2)	41.4	(29.3-54.6)	20.9	(12.0-33.8)
Some college or more	27.8	(26.4-29.3)	29.0	(27.4-30.6)	27.3	(23.2-31.9)	20.8	(15.1-28.0)	10.5	(5.5-19.1)
Household Income										
< $35,000	39.6	(37.3-42.0)	42.5	(39.8-45.3)	33.0	(28.4-38.0)	38.0	(26.9-50.4)	19.7	(11.0-32.6)
$35,000 +	27.0	(25.5-28.6)	27.9	(26.3-29.6)	24.5	(19.4-30.5)	22.8	(15.4-32.3)	15.6	(8.5-26.8)

[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.
[b] Michigan estimates include all racial groups.
[c] Denominator cell size < 50.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

37

Table 36: Ever Told Heart Attack[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	4.5	(4.0-4.9)	4.7	(4.2-5.2)	3.7	(2.7-5.0)	3.9	(2.5-6.0)	2.7	(1.1-6.3)
Age										
18 - 49	1.0	(0.7-1.4)	0.9	(0.6-1.4)	1.4	(0.6-3.2)	1.2	(0.4-3.1)	0.1	(0.0-0.9)
50 +	9.1	(8.3-10.0)	9.2	(8.3-10.1)	7.9	(5.9-10.6)	9.3	(5.7-14.7)	12.2	(5.2-26.0)
Gender										
Male	5.5	(4.8-6.3)	6.0	(5.2-6.8)	3.9	(2.4-6.3)	3.6	(1.8-6.8)	4.0	(1.3-11.4)
Female	3.5	(3.0-4.0)	3.5	(3.0-4.1)	3.5	(2.4-5.1)	4.2	(2.3-7.6)	1.2	(0.4-3.4)
Education										
High school graduate or less	6.6	(5.8-7.5)	7.2	(6.3-8.3)	4.5	(3.0-6.6)	6.0	(3.0-11.7)	3.5	(1.1-10.5)
Some college or more	3.1	(2.7-3.6)	3.2	(2.7-3.8)	3.1	(1.9-4.9)	2.7	(1.4-4.9)	1.9	(0.5-6.8)
Household Income										
< $35,000	7.6	(6.7-8.7)	8.6	(7.4-9.9)	6.1	(4.2-8.8)	4.9	(2.6-9.0)	2.2	(0.7-6.9)
$35,000 +	2.9	(2.4-3.4)	3.0	(2.5-3.6)	1.2	(0.6-2.3)	3.6	(1.7-7.6)	2.8	(0.7-11.2)

[a] Among all adults, the proportion who had ever been told by a doctor that they had a heart attack or myocardial infarction.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

38

Table 37: Ever Told Angina or Coronary Heart Disease[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	4.4	(4.0-4.9)	4.4	(4.0-4.9)	4.6	(3.3-5.7)	4.6	(3.0-6.9)	2.4	(0.9-6.3)
Age										
18 - 49	0.7	(0.5-1.0)	0.6	(0.4-1.0)	1.6	(0.8-3.1)	0.6	(0.2-2.4)	0.0	(---)
50 +	9.3	(8.5-10.2)	9.1	(8.2-10.0)	9.4	(7.1-12.3)	12.2	(8.0-18.2)	11.5	(4.5-26.2)
Gender										
Male	5.0	(4.3-5.7)	5.2	(4.5-6.0)	3.6	(2.3-5.6)	4.6	(2.5-8.2)	2.6	(0.6-10.4)
Female	4.0	(3.5-4.5)	3.8	(3.2-4.3)	5.0	(3.5-7.0)	4.5	(2.4-8.3)	2.3	(0.7-7.5)
Education										
High school graduate or less	5.4	(4.7-6.1)	5.6	(4.8-6.4)	4.4	(3.0-6.4)	7.0	(3.6-13.1)	3.7	(1.1-11.6)
Some college or more	3.8	(3.3-4.3)	3.8	(3.3-4.4)	4.3	(2.9-6.3)	3.5	(2.0-6.1)	1.2	(0.2-6.3)
Household Income										
< $35,000	6.4	(5.6-7.3)	7.0	(6.0-8.1)	5.3	(3.8-7.5)	5.3	(2.8-10.0)	2.2	(0.5-9.9)
$35,000 +	3.3	(2.8-3.9)	3.2	(2.7-3.8)	3.4	(2.0-5.7)	5.9	(3.3-10.3)	2.8	(0.7-11.2)

[a] Among all adults, the proportion who had ever been told by a doctor that they had angina or coronary heart disease.
[b] Michigan estimates include all racial groups.

Table 38: Ever Told Stroke[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	2.7	(2.4-3.0)	2.4	(2.1-2.8)	3.7	(2.8-4.8)	3.7	(2.2-6.2)	1.1	(0.3-3.4)
Age										
18 - 49	0.6	(0.4-1.0)	0.5	(0.3-0.9)	1.0	(0.4-2.7)	1.0	(0.2-5.3)	0.9	(0.2-4.6)
50 +	5.2	(4.6-5.9)	4.7	(4.1-5.4)	8.5	(6.6-10.8)	9.0	(5.5-14.4)	1.8	(0.5-8.5)
Gender										
Male	2.4	(2.0-2.9)	2.2	(1.8-2.8)	3.4	(2.2-5.3)	3.5	(1.5-7.9)	0.1	(0.0-0.6)
Female	2.9	(2.5-3.4)	2.6	(2.2-3.1)	3.9	(2.8-5.5)	3.9	(2.1-7.4)	2.2	(0.6-7.1)
Education										
High school graduate or less	3.8	(3.3-4.5)	3.6	(3.0-4.4)	4.5	(3.2-6.5)	8.5	(4.4-15.7)	0.7	(0.2-3.0)
Some college or more	1.8	(1.5-2.2)	1.7	(1.4-2.1)	3.0	(2.0-4.6)	1.4	(0.6-3.4)	1.4	(0.3-6.8)
Household Income										
< $35,000	4.6	(3.9-5.5)	4.3	(3.5-5.2)	5.2	(3.7-7.2)	8.4	(4.6-14.7)	2.4	(0.6-9.1)
$35,000 +	1.2	(0.9-1.5)	1.3	(0.9-1.7)	1.1	(0.6-2.3)	0.3	(0.0-2.4)	0.1	(0.0-0.6)

[a] Among all adults, the proportion who had ever been told by a doctor that they had a stroke.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

40

Table 39: Ever Told Diabetes[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	9.4	(8.8-10.1)	8.6	(7.9-9.3)	12.6	(10.7-14.7)	11.0	(8.1-14.9)	12.6	(7.7-19.9)
Age										
18 - 49	3.5	(2.9-4.3)	3.0	(2.4-3.9)	4.5	(3.0-6.6)	4.0	(1.9-8.1)	8.4	(3.9-17.3)
50 +	16.9	(15.9-18.1)	15.1	(14.0-16.3)	27.0	(23.3-31.0)	24.7	(18.5-32.2)	26.7	(16.1-40.9)
Gender										
Male	9.7	(8.7-10.7)	9.0	(8.0-10.1)	12.0	(9.1-15.7)	13.3	(8.7-19.8)	9.6	(4.3-20.2)
Female	9.2	(8.4-10.1)	8.2	(7.3-9.1)	13.0	(10.8-15.6)	9.0	(5.8-13.8)	15.9	(8.9-27.0)
Education										
High school graduate or less	12.3	(11.1-13.6)	11.2	(9.9-12.6)	15.9	(12.8-19.7)	15.6	(9.6-24.2)	17.0	(9.1-29.5)
Some college or more	7.5	(6.8-8.3)	7.1	(6.3-7.9)	10.0	(7.9-12.7)	8.6	(5.6-12.9)	8.3	(3.5-18.2)
Household Income										
< $35,000	14.0	(12.7-15.4)	13.4	(12.0-15.1)	17.0	(13.9-20.5)	13.6	(8.4-21.5)	10.4	(4.5-21.9)
$35,000 +	6.4	(5.7-7.2)	5.9	(5.1-6.7)	7.9	(5.6-11.1)	9.8	(6.0-15.4)	11.6	(5.5-22.9)

[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.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

41

Table 40: Ever Told Cancer[a] by Race-Ethnicity
2009 Michigan BRFS

Demographic Characteristics	Michigan[b]		White, Non-Hispanic		Black, Non-Hispanic		Other/Multiracial, Non-Hispanic		Hispanic	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Total	9.9	(9.2-10.6)	10.6	(9.8-11.3)	6.4	(4.4-9.1)	9.5	(6.0-14.7)	6.6	(3.2-13.1)
Age										
18 - 49	3.6	(2.8-4.5)	3.3	(2.7-4.2)	3.4	(1.3-9.0)	5.6	(2.0-15.1)	4.8	(1.6-13.6)
50 +	18.0	(16.9-19.1)	18.9	(17.6-20.1)	11.7	(9.4-14.5)	16.3	(11.4-22.7)	13.4	(6.3-26.4)
Gender										
Male	8.7	(7.7-9.8)	9.1	(8.1-10.2)	6.3	(3.0-12.7)	9.3	(3.9-20.4)	3.4	(0.9-11.4)
Female	11.0	(10.2-12.0)	11.9	(10.9-13.0)	6.5	(4.8-8.7)	9.7	(6.2-14.9)	9.8	(4.3-21.0)
Education										
High school graduate or less	10.4	(9.3-11.5)	11.4	(10.2-12.7)	4.1	(2.8-5.9)	11.5	(6.5-19.8)	11.0	(4.9-22.8)
Some college or more	9.5	(8.7-10.5)	10.1	(9.2-11.0)	8.0	(4.9-12.6)	8.5	(4.4-15.8)	2.8	(0.5-13.7)
Household Income										
< $35,000	10.9	(9.8-12.2)	12.4	(11.0-13.9)	5.8	(4.1-8.3)	7.9	(4.4-13.9)	13.6	(5.6-29.4)
$35,000 +	9.2	(8.2-10.2)	9.4	(8.5-10.4)	7.6	(3.7-14.8)	11.0	(5.0-22.3)	3.8	(1.2-11.3)

[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.
[b] Michigan estimates include all racial groups.

If you have any questions regarding these estimates, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, MIBRFSS@michigan.gov.

42