

# Ohio 2014 BRFSS Annual Report



*To protect and improve the health of all Ohioans by preventing disease, promoting good health and assuring access to quality health care.*

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## Introduction

The Ohio Behavioral Risk Factor Surveillance System (BRFSS) is an annual telephone survey conducted by the Ohio Department of Health (ODH) and supported by the Centers for Disease Control and Prevention (CDC). The BRFSS is the primary source of health information among Ohio residents 18 years and older, including data related to chronic diseases, obesity, physical activity, nutrition, alcohol use, oral health, injuries, cancer screenings and access to health care, among many other measures. The collection of Ohio BRFSS data allows ODH, local health departments and other public health stakeholders to monitor health trends and develop and evaluate public health programs and policies designed to improve the health of Ohio residents.

## Methodology

### *Sample Design*

The BRFSS survey sample consists of non-institutionalized adults 18 years or older. Since 2011, the BRFSS has conducted both landline telephone- and cellular telephone-based surveys using Random-Digit-Dialing (RDD) techniques. In conducting the BRFSS landline telephone survey, data are collected from a randomly selected adult in a household. In conducting the cellular telephone version of the BRFSS survey, data are collected from an adult who participates by using a cellular telephone. In 2014, the Ohio BRFSS conducted 10,993 interviews and oversampled 14 regions in order to produce regional estimates for key indicators.

### *Questionnaire*

The Ohio BRFSS questionnaire is designed by a working group of BRFSS state coordinators and CDC staff as well as the Ohio BRFSS Data Users Group and other stakeholders. Currently, the questionnaire has three parts: 1) the core component questions, which must be asked by all states without modification in wording; 2) optional modules, which are supported by CDC but not required to be asked in all states; and 3) state-added questions not offered as core or optional modules. The Ohio BRFSS implements a two-way split survey design to allow for larger coverage of optional modules and state-added questions, while maintaining a sufficient sample size for each split.

### *Weighting*

The Ohio BRFSS data are weighted to known proportions of age, race, ethnicity, gender and geographic region in Ohio to ensure that estimates are representative of the Ohio adult population. In 2011, the BRFSS moved to a new weighting methodology known as iterative proportional fitting or raking to allow for the incorporation of telephone ownership (landline and/or cellular telephone), as well as education level, marital status and renter vs. owner status, into the BRFSS weighting methodology.

### *Prevalence Estimates/Statistical Significance*

The results presented in this report provide a broad overview of the health status of Ohioans, and the degree to which health behaviors and outcomes can vary among different demographic and socioeconomic groups within Ohio. Prevalence estimates are based on a sample of Ohio's population and are presented with 95 percent confidence intervals (CI). In figures, 95 percent CIs are represented with error bars. A 95 percent CI means that if the same survey was repeated 100 times, the estimated prevalence would fall within the range of the CI 95 times out of 100. Statistical significance between populations was determined by comparing CIs; if the CIs do not overlap, the difference is determined to be statistically significant. This is particularly important when comparing prevalence estimates for smaller populations, because they often have wider confidence intervals.

## Methodology, continued

### Limitations

The *Ohio 2014 BRFSS Annual Report* provides data and information on the health status and health-related risk behaviors of adult Ohioans at both the state and regional level. When reading this report, the following data limitations should be considered:

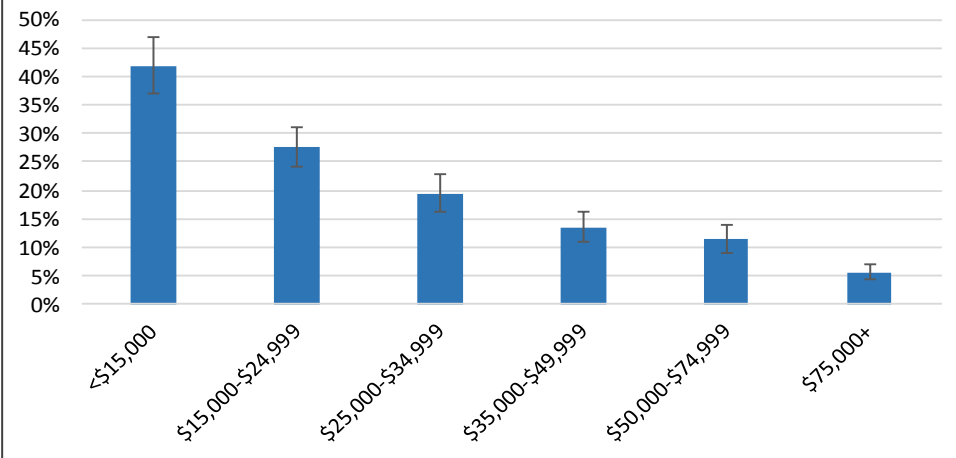
- Estimates through 2010 should not be compared to estimates from 2011 and beyond because of the shift from post stratification weighting to iterative proportional raking in 2011. For this reason, trend data are excluded from this report.
- Data estimates for fewer than 50 respondents are considered statistically unreliable by the CDC and are not included in this report. Respondents who answered that they do not know or refused to answer a question were excluded from the calculation of prevalence estimates related to that question. Therefore, the sample sizes used to calculate the estimates in this report are different for each indicator. Estimates with a relative standard error greater than 30 percent are also excluded as they do not meet CDC reporting criteria.
- The BRFSS only surveys adults living in households. Therefore, individuals living in a group setting such as a nursing home, the military or prison are not surveyed. In addition, adults who live in households without telephones are not included in the sample.
- BRFSS prevalence estimates are based solely on respondents' self-reported answers to survey questions. Respondents may be uncomfortable sharing private health information, or conversely, may exaggerate particular feelings or experiences. Others may be tempted to provide responses that are more socially desirable. In some cases, information provided by respondents may be subject to recall bias. Thus, results should be interpreted with caution.

## Key Findings

### General Health Status

In 2014, an estimated 17.9 percent of Ohio adults reported that their health was fair or poor. Older adults, blacks and those with low levels of education and annual household income were significantly more likely to report fair or poor health. An estimated 41.9 percent of respondents with an annual household income less than \$15,000 reported fair or poor health, compared to only 5.6 percent of respondents with an annual household income of \$75,000 or more (Figure 1).

**Figure 1. Fair or Poor Health by Annual Household Income, Ohio, 2014**

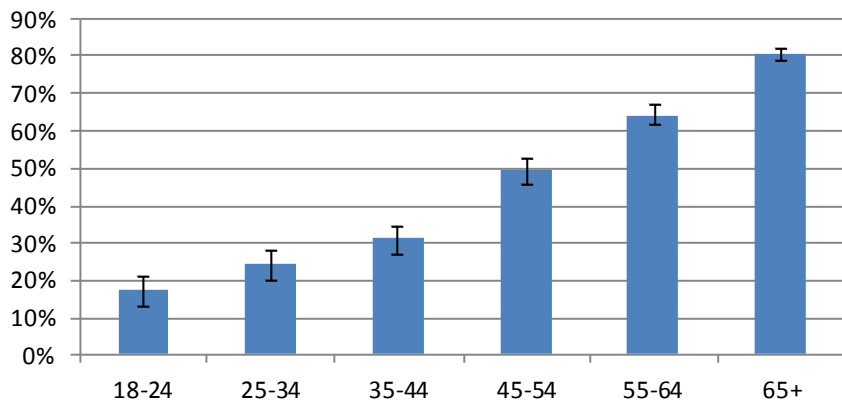


## Key Findings

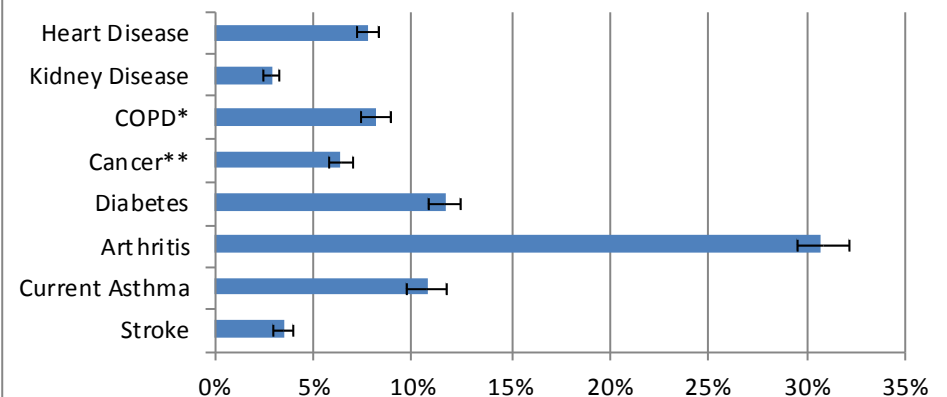
### Chronic Diseases and Conditions

In 2014, an estimated 47.2 percent of Ohio adults reported that they had at least one of the following chronic diseases or conditions: diabetes, heart disease, stroke, current asthma, chronic obstructive pulmonary disease (COPD), cancer, arthritis and/or kidney disease; 20.9 percent reported two or more chronic diseases or conditions. Among adults 65 years and older, 80.3 percent had at least one chronic disease or condition (Figure 2) and 46.5 percent had two or more chronic diseases or conditions. The most common chronic disease or condition among Ohio adults was arthritis (30.8 percent), followed by diabetes (11.7 percent) and current asthma (10.8 percent) (Figure 3).

**Figure 2. Any Chronic Disease or Condition by Age, Ohio, 2014**



**Figure 3. Chronic Diseases and Conditions, Ohio, 2014**



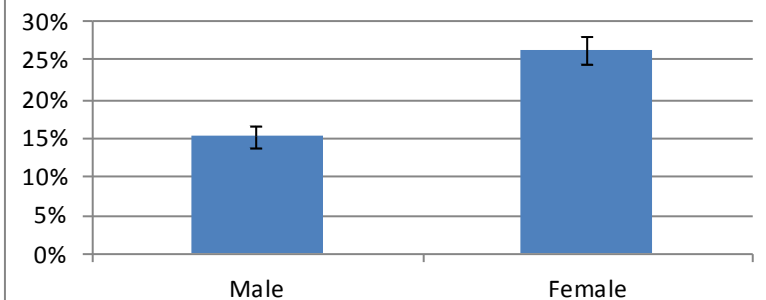
\*Chronic Obstructive Pulmonary Disease

\*\*Does not include skin cancer

### Depression

In 2014, an estimated 20.9 percent of Ohio adults reported ever being told by a doctor, nurse or other health professional that they had a depressive disorder. Respondents with low levels of education and annual household income, females and adults less than 65 years of age were more likely to report depression. Females were nearly twice as likely to report having been told that they had a depressive disorder (26.2 percent), compared to males (15.2 percent) (Figure 4).

**Figure 4. Depression by Gender, Ohio, 2014**

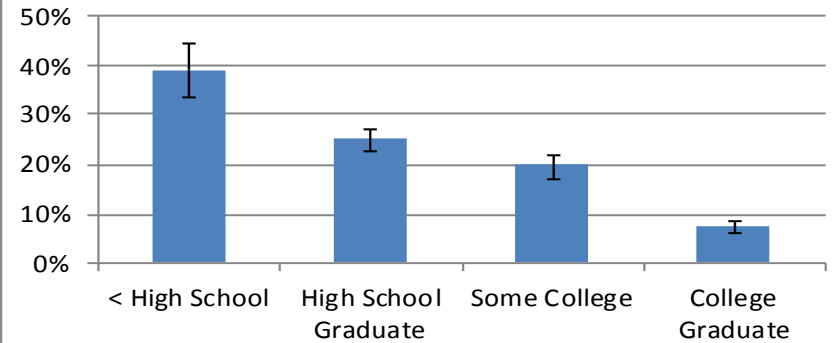


## Key Findings

### *Current Smoking*

In 2014, an estimated 21.0 percent of Ohio adults reported that they currently smoke cigarettes. Respondents with lower levels of education and annual household income were significantly more likely to be current smokers. An estimated 38.9 percent of respondents with less than a high school education were current smokers, compared to 7.3 percent of college graduates (Figure 5).

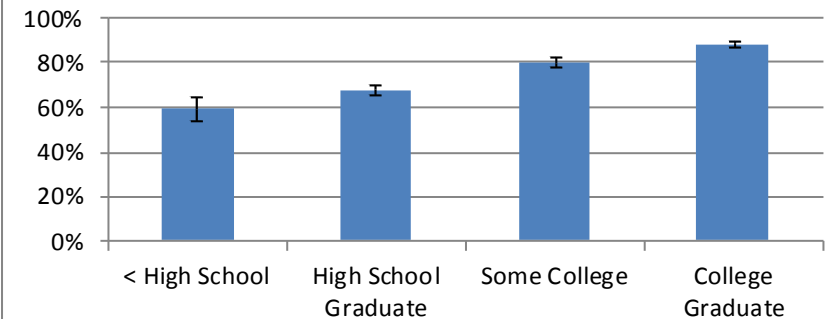
**Figure 5. Current Smoking by Education Level, Ohio, 2014**



### *Obesity/Physical Activity*

In 2014, an estimated 31.2 percent of Ohio adults, based on reported height and weight, were obese. An estimated 75.0 percent of Ohio adults reported that they participated in any physical activity or exercise in the past month; respondents with lower levels of education (Figure 6) and annual household income were significantly less likely to exercise.

**Figure 6. Any Physical Activity by Education Level, Ohio, 2014**



## General Health Status

Self-assessed health status is based on a respondent's perceived general health. Self-rated health can reflect the state of both the body and the mind, and its association with mortality is well documented.<sup>i</sup>

Respondents were asked, "Would you say that in general your health is excellent, very good, good, fair or poor?"

- In 2014, 17.9 percent of Ohio adults reported that their general health was fair or poor.
- The prevalence of fair or poor health increases as age increases.
- The prevalence of fair or poor health does not significantly differ by gender.
- White, non-Hispanic adults (17.1 percent) reported a significantly lower prevalence of fair or poor health compared to black, non-Hispanic adults (24.9 percent).
- The prevalence of fair or poor health decreases as annual household income increases.
- The prevalence of fair or poor health decreases as education level increases.

**Table 1. Prevalence of Fair or Poor Health by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Prevalence (%)	General Health, Fair or Poor <sup>1</sup>		
		95% Confidence Interval		
<b>Total</b>	17.9	16.7	-	19.0
<b>Age</b>				
18-24	6.8	4.0	-	9.5
25-34	12.5	9.5	-	15.5
35-44	15.0	11.8	-	18.1
45-54	19.6	16.9	-	22.4
55-64	23.8	21.4	-	26.3
65+	24.6	22.6	-	26.6
<b>Gender</b>				
Male	16.7	15.1	-	18.4
Female	18.9	17.4	-	20.4
<b>Race/Ethnicity</b>				
White, Non-Hispanic	17.1	16.0	-	18.3
Black, Non-Hispanic	24.9	20.6	-	29.3
Hispanic	15.7	8.6	-	22.8
Other, Non-Hispanic	10.9	4.8	-	16.9
Multi-Racial	25.7	14.7	-	36.8
<b>Annual Household Income</b>				
<\$15,000	41.9	37.0	-	46.7
\$15,000-\$24,999	27.6	24.2	-	31.0
\$25,000-\$34,999	19.5	16.2	-	22.9
\$35,000-\$49,999	13.5	10.9	-	16.1
\$50,000-\$74,999	11.4	8.8	-	14.0
\$75,000+	5.6	4.2	-	7.0
<b>Education</b>				
Less than High School	37.1	32.1	-	42.1
High School Diploma	20.5	18.5	-	22.4
Some College	15.8	13.9	-	17.7
College Graduate	6.6	5.5	-	7.6

<sup>1</sup>Among adults, the proportion who reported that their health, in general, was either fair or poor.



# Heart Disease

Heart disease is the leading cause of death for men and women. Key risk factors for heart disease include high blood pressure, high cholesterol and smoking. Other risk factors include diabetes, overweight and obesity, poor diet, physical inactivity and excessive alcohol use.<sup>ii</sup>

Respondents were asked two questions related to heart attack and coronary heart disease which were combined to create one heart disease indicator:

- “Has a doctor, nurse or other health professional ever told you that you had a heart attack also called myocardial infarction?”
- “Has a doctor, nurse or other health professional ever told you that you had angina or coronary heart disease?”

- In 2014, 7.8 percent of Ohio adults reported ever being told by a doctor, nurse or other health professional that they had a heart attack, angina or coronary heart disease.
- The prevalence of heart disease increases as age increases.
- The prevalence of heart disease is significantly higher among males (9.4 percent) than among females (6.3 percent).
- The prevalence of heart disease does not significantly differ by race/ethnicity.
- The prevalence of heart disease decreases as annual household income increases.
- The prevalence of heart disease decreases as education level increases.

**Table 2. Prevalence of Heart Disease by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Heart Disease <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	7.8	7.2	-	8.5
<b>Age</b>				
18-24	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
25-34	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
35-44	2.3	1.2	-	3.4
45-54	6.6	4.8	-	8.4
55-64	12.0	10.1	-	13.8
65+	20.4	18.5	-	22.3
<b>Gender</b>				
Male	9.4	8.4	-	10.5
Female	6.3	5.6	-	7.1
<b>Race/Ethnicity</b>				
White, Non-Hispanic	8.2	7.4	-	8.9
Black, Non-Hispanic	7.1	4.9	-	9.2
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Multi-Racial	5.6	2.5	-	8.7
<b>Annual Household Income</b>				
<\$15,000	13.1	10.3	-	15.9
\$15,000-\$24,999	11.9	9.8	-	14.1
\$25,000-\$34,999	8.9	6.9	-	11.0
\$35,000-\$49,999	8.4	6.4	-	10.5
\$50,000-\$74,999	5.1	3.7	-	6.6
\$75,000+	3.6	2.8	-	4.4
<b>Education</b>				
Less than High School	12.9	10.1	-	15.8
High School Diploma	9.5	8.3	-	10.7
Some College	6.5	5.4	-	7.7
College Graduate	4.5	3.8	-	5.3

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they had a heart attack (or myocardial infarction), angina or coronary heart disease.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

# Stroke

Stroke is the fifth leading cause of death in the United States and one of the leading causes of serious disability among adults. Major risk factors for stroke include high blood pressure, high cholesterol and smoking.<sup>iii</sup>

Respondents were asked, “Has a doctor, nurse or other health professional ever told you that you had a stroke?”

- In 2014, 3.5 percent of Ohio adults reported ever being told by a doctor, nurse or other health professional that they had suffered a stroke.
- The prevalence of stroke is significantly higher among adults ages 65 and older.
- The prevalence of stroke does not significantly differ by gender.
- The prevalence of stroke does not significantly differ by race/ethnicity.
- The prevalence of stroke decreases as annual household income increases.
- The prevalence of stroke decreases as education level increases; 7.1 percent of adults with less than a high school education have had a stroke, compared to 1.8 percent of college graduates.

**Table 3. Prevalence of Stroke by Demographic Characteristics, Ohio, 2014**  
Stroke<sup>1</sup>

Demographic Characteristics	Prevalence (%)	95% Confidence Interval			
<b>Total</b>	3.5	3.0	-	4.0	
<b>Age</b>					
18-24	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
25-34	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
35-44	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
45-54	2.5	1.3	-	3.7	
55-64	4.0	2.9	-	5.2	
65+	10.1	8.6	-	11.7	
<b>Gender</b>					
Male	3.2	2.5	-	3.8	
Female	3.8	3.2	-	4.5	
<b>Race/Ethnicity</b>					
White, Non-Hispanic	3.4	2.9	-	4.0	
Black, Non-Hispanic	3.7	2.3	-	5.1	
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
Multi-Racial	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
<b>Annual Household Income</b>					
<\$15,000	5.4	3.6	-	7.2	
\$15,000-\$24,999	7.0	5.2	-	8.8	
\$25,000-\$34,999	4.9	3.2	-	6.7	
\$35,000-\$49,999	2.6	1.4	-	3.8	
\$50,000-\$74,999	2.0	1.0	-	2.9	
\$75,000+	1.2	0.7	-	1.7	
<b>Education</b>					
Less than High School	7.1	4.6	-	9.6	
High School Diploma	3.6	2.9	-	4.3	
Some College	3.3	2.5	-	4.1	
College Graduate	1.8	1.3	-	2.3	

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they had a stroke.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

# Asthma

Asthma is a chronic inflammatory disease of the airways. There is no cure for asthma, but it can be controlled through appropriate medical care and by avoiding known exposures that can trigger an attack.<sup>iv</sup>

Adult respondents were asked, “Has a doctor, nurse or other health professional ever told you that you had asthma?” If yes, “Do you still have asthma?”

- In 2014, 15.0 percent of Ohio adults reported ever being told by a doctor that they had asthma; 10.8 percent of Ohio adults reported that they currently have asthma.
- The prevalence of lifetime asthma among adults was significantly lower among adults ages 65 and older (12.2 percent) compared to adults ages 18-24 (19.2 percent).
- The prevalence of lifetime and current asthma among adults is significantly higher among females (18.0 percent and 14.3 percent respectively) compared to males (11.7 percent and 7.0 percent, respectively).
- The prevalence of lifetime and current asthma is significantly higher among black, non-Hispanic respondents (22.2 percent and 16.1 percent, respectively) compared to white, non-Hispanic respondents (13.9 percent and 10.0 percent, respectively).
- The prevalence of lifetime and current asthma among adults decreases as annual household income increases.
- The prevalence of lifetime and current asthma among adults is significantly higher among respondents with less than a high school education compared to all other levels of education.

**Table 4. Prevalence of Asthma by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Asthma, Ever Told <sup>1</sup>			Current Asthma <sup>1</sup>		
	Prevalence (%)	95% Confidence Interval		Prevalence (%)	95% Confidence Interval	
<b>Total</b>	15.0	13.9	- 16.1	10.8	9.8	- 11.7
<b>Age</b>						
18-24	19.2	14.8	- 23.5	10.3	7.0	- 13.6
25-34	17.5	14.0	- 20.9	12.0	8.9	- 15.2
35-44	14.4	11.6	- 17.1	11.2	8.8	- 13.6
45-54	14.9	12.4	- 17.3	11.3	9.2	- 13.5
55-64	14.1	12.1	- 16.1	10.7	8.9	- 12.4
65+	12.2	10.6	- 13.7	9.7	8.3	- 11.1
<b>Gender</b>						
Male	11.7	10.3	- 13.2	7.0	5.9	- 8.1
Female	18.0	16.4	- 19.6	14.3	12.8	- 15.7
<b>Race/Ethnicity</b>						
White, Non-Hispanic	13.9	12.8	- 15.1	10.0	9.1	- 11.0
Black, Non-Hispanic	22.2	17.7	- 26.8	16.1	12.0	- 20.2
Hispanic	19.9	11.3	- 28.4	14.0	6.7	- 21.2
Other, Non-Hispanic	8.0	3.6	- 12.4	7.0	2.9	- 11.1
Multi-Racial	21.5	10.0	- 33.1	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>
<b>Annual Household Income</b>						
<\$15,000	25.9	21.5	- 30.2	22.1	17.9	- 26.3
\$15,000-\$24,999	19.7	16.4	- 23.0	13.7	11.1	- 16.4
\$25,000-\$34,999	13.6	10.2	- 17.1	10.9	7.7	- 14.2
\$35,000-\$49,999	13.5	10.8	- 16.3	9.2	7.0	- 11.4
\$50,000-\$74,999	12.5	9.9	- 15.2	7.8	5.7	- 10.0
\$75,000+	10.4	8.6	- 12.1	7.1	5.6	- 8.5
<b>Education</b>						
Less than High School	24.8	20.3	- 29.3	19.8	15.6	- 23.9
High School Diploma	13.4	11.6	- 15.1	9.8	8.3	- 11.2
Some College	15.6	13.5	- 17.7	11.0	9.2	- 12.8
College Graduate	11.5	10.0	- 13.0	7.4	6.2	- 8.6

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they ever had asthma and currently have asthma.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

## Childhood Asthma

About 1 in 11 children in the United States has asthma. An asthma attack may be triggered by respiratory infections, cigarette smoke, allergies, air pollutants, exposure to cold air/temperature changes, excitement/stress or exercise.<sup>v</sup>

Respondents were asked, “Has a doctor, nurse or other health professional ever said that the child has asthma?” If yes, “Does the child still have asthma?”

- In 2014, an estimated 13.7 percent of Ohio children ages 0-17 were ever told by a doctor that they had asthma; an estimated 10.4 percent of Ohio children currently have asthma.
- The prevalence of current and lifetime asthma is significantly higher among children ages 10 to 14 compared to children ages 0 to 4 and 15 to 17.
- The prevalence of lifetime and current asthma among children does not significantly differ by gender.
- The prevalence of lifetime and current asthma among children does not significantly differ by race/ethnicity.
- The prevalence of lifetime and current asthma among children does not significantly differ by annual household income.

**Table 5. Prevalence of Childhood Asthma by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Asthma, Ever Told <sup>1</sup>				Current Asthma <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval			Prevalence (%)	95% Confidence Interval		
<b>Total</b>	13.7	11.3	-	16.1	10.4	8.2	-	12.6
<b>Age</b>								
0-4	8.0	4.6	-	11.3	7.5	4.2	-	10.8
5-9	13.4	8.2	-	18.6	9.6	4.8	-	14.5
10-14	20.8	15.7	-	26.0	15.9	11.1	-	20.7
15-17	11.4	7.4	-	15.4	7.3	4.2	-	10.5
<b>Gender</b>								
Male	15.8	12.3	-	19.4	11.6	8.4	-	14.9
Female	11.5	8.3	-	14.7	9.2	6.2	-	12.2
<b>Race/Ethnicity</b>								
White, Non-Hispanic	13.2	10.8	-	15.5	9.2	7.3	-	11.2
Black, Non-Hispanic	14.0	6.8	-	21.2	11.9	5.0	-	18.7
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Multi-Racial	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
<b>Annual Household Income</b>								
<\$15,000	17.0	9.5	-	24.5	12.5	5.9	-	19.1
\$15,000-\$24,999	22.6	12.7	-	32.5	19.6	9.8	-	29.3
\$25,000-\$34,999	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
\$35,000-\$49,999	16.5	9.4	-	23.6	12.5	6.3	-	18.7
\$50,000-\$74,999	12.0	7.2	-	16.8	6.8	3.2	-	10.4
\$75,000+	10.4	6.9	-	14.0	8.8	5.3	-	12.2

<sup>1</sup>The proportion of those who reported ever being told by a doctor, nurse or other health professional that the child has asthma and currently has asthma.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

# Cancer

Cancer is a group of diseases characterized by the uncontrolled growth and spread of abnormal cells. Regular screening examinations by a healthcare professional can result in the detection of many cancers at earlier stages, when treatment is more likely to be successful.<sup>vi</sup>

Respondents were asked:

- “Has a doctor, nurse or other health professional ever told you that you had skin cancer?”
- “Has a doctor, nurse or other health professional ever told you that you had any other type of cancer?”

- In 2014, 6.0 percent of Ohio adults reported ever being told by a doctor, nurse or other health professional that they had skin cancer; 6.4 percent of adults reported ever being told that they had any other type of cancer.
- The prevalence of skin cancer and other types of cancer is significantly higher among adults ages 55 and older compared to adults younger than 55.
- The prevalence of skin cancer does not significantly differ by gender; the prevalence of other types of cancer is significantly higher among females (7.5 percent) compared to males (5.1 percent).
- The prevalence of other types of cancer does not significantly differ by race/ethnicity.
- The prevalence of skin cancer is significantly lower among adults with an annual household income less than \$15,000 compared to those with an annual household income of \$15,000 or more.
- The prevalence of other types of cancer is higher among adults with an annual household income less than \$25,000 compared to those with an annual household income of \$50,000 or greater.
- The prevalence of skin cancer and other types of cancer does not significantly differ by education level.

**Table 6. Prevalence of Cancer by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Skin Cancer <sup>1</sup>			Other Cancer <sup>1</sup>		
	Prevalence (%)	95% Confidence Interval		Prevalence (%)	95% Confidence Interval	
<b>Total</b>	6.0	5.5	- 6.6	6.4	5.8	- 6.9
<b>Age</b>						
18-24	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>
25-34	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>	1.9	1.0	- 2.9
35-44	2.6	1.4	- 3.8	3.5	2.1	- 4.9
45-54	4.4	3.1	- 5.7	3.6	2.6	- 4.7
55-64	7.2	5.8	- 8.6	8.1	6.7	- 9.6
65+	17.1	15.4	- 18.9	16.1	14.4	- 17.7
<b>Gender</b>						
Male	6.3	5.5	- 7.2	5.1	4.4	- 5.9
Female	5.7	5.0	- 6.5	7.5	6.7	- 8.3
<b>Race/Ethnicity</b>						
White, Non-Hispanic	7.0	6.4	- 7.7	6.6	6.0	- 7.3
Black, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>	4.9	3.2	- 6.7
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>
Multi-Racial	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>	N/A <sup>2</sup>	N/A <sup>2</sup>	- N/A <sup>2</sup>
<b>Annual Household Income</b>						
<\$15,000	2.9	1.7	- 4.1	9.2	6.6	- 11.7
\$15,000-\$24,999	5.7	4.4	- 7.0	8.3	6.6	- 9.9
\$25,000-\$34,999	9.3	6.9	- 11.7	6.6	4.9	- 8.3
\$35,000-\$49,999	5.7	4.2	- 7.2	6.6	5.1	- 8.1
\$50,000-\$74,999	5.8	4.4	- 7.3	4.4	3.3	- 5.6
\$75,000+	6.0	4.8	- 7.1	4.5	3.6	- 5.5
<b>Education</b>						
Less than High School	5.0	3.3	- 6.8	6.6	4.5	- 8.7
High School Diploma	6.5	5.5	- 7.5	6.9	5.9	- 7.9
Some College	5.6	4.5	- 6.6	6.2	5.2	- 7.3
College Graduate	6.7	5.7	- 7.7	5.5	4.6	- 6.4

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they had skin cancer or other types of cancer.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

# Arthritis

Arthritis—an umbrella term that includes multiple conditions affecting the joints and connective tissues—is the leading cause of disability in the United States. Arthritis commonly occurs with other chronic conditions and can complicate the treatment of those conditions.<sup>vii</sup>

Respondents were asked, “Has a doctor, nurse or other health professional ever told you that you have some form of arthritis, rheumatoid arthritis, gout, lupus or fibromyalgia?”

- In 2014, 30.8 percent of Ohio adults reported ever being told by a doctor, nurse or other health professional that they have arthritis.
- The prevalence of arthritis increases as age increases.
- The prevalence of arthritis is significantly higher among females (34.6 percent) compared to males (26.7 percent).
- The prevalence of arthritis is significantly higher among white, non-Hispanic adults (32.3 percent) compared to Hispanic adults (19.7 percent) and adults of other, non-Hispanic race/ethnicity (11.4 percent).
- The prevalence of arthritis decreases as annual household income increases.
- The prevalence of arthritis decreases as education level increases.

**Table 7. Prevalence of Arthritis by Demographic Characteristics, Ohio, 2014**  
**Arthritis<sup>1</sup>**

Demographic Characteristics	Prevalence (%)	95% Confidence Interval			
<b>Total</b>	30.8	29.5	-	32.1	
<b>Age</b>					
18-24	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
25-34	12.2	9.2	-	15.1	
35-44	19.9	16.5	-	23.3	
45-54	32.8	29.6	-	35.9	
55-64	44.0	41.2	-	46.8	
65+	58.1	55.8	-	60.5	
<b>Gender</b>					
Male	26.7	24.9	-	28.6	
Female	34.6	32.9	-	36.3	
<b>Race/Ethnicity</b>					
White, Non-Hispanic	32.3	30.9	-	33.7	
Black, Non-Hispanic	26.8	22.6	-	31.0	
Hispanic	19.7	12.1	-	27.3	
Other, Non-Hispanic	11.4	6.4	-	16.4	
Multi-Racial	37.4	25.7	-	49.1	
<b>Annual Household Income</b>					
<\$15,000	42.8	37.9	-	47.6	
\$15,000-\$24,999	38.5	34.9	-	42.2	
\$25,000-\$34,999	34.9	30.7	-	39.2	
\$35,000-\$49,999	32.0	28.5	-	35.6	
\$50,000-\$74,999	26.7	23.6	-	29.8	
\$75,000+	20.6	18.4	-	22.8	
<b>Education</b>					
Less than High School	40.6	35.4	-	45.7	
High School Diploma	35.7	33.5	-	37.9	
Some College	29.3	26.9	-	31.6	
College Graduate	20.7	19.1	-	22.4	

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they have some form of arthritis, rheumatoid arthritis, gout, lupus or fibromyalgia.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

# Kidney Disease

CDC estimates that more than 10 percent of adults in the United States may have chronic kidney disease. Diabetes and high blood pressure increase the risk of developing kidney disease; approximately 1 in 3 adults with diabetes and 1 in 5 adults with high blood pressure has chronic kidney disease.<sup>viii</sup>

Respondents were asked, “Has a doctor, nurse or other health professional ever told you that you have kidney disease?”

- In 2014, 2.9 percent of Ohio adults reported ever being told by a doctor, nurse or other health professional that they have kidney disease.
- The prevalence of kidney disease increases as age increases among adults ages 45 and older.
- The prevalence of kidney disease is significantly higher among females (3.6 percent) compared to males (2.2 percent).
- The prevalence of kidney disease is significantly higher among black, non-Hispanic adults (5.1 percent) compared to white, non-Hispanic adults (2.6 percent).
- The prevalence of kidney disease is significantly higher among adults with an annual household income less than \$25,000 compared to those with an annual household income of \$35,000 or more.
- The prevalence of kidney disease does not significantly differ by education level.

**Table 8. Prevalence of Kidney Disease by Demographic Characteristics, Ohio, 2014**  
Kidney Disease<sup>1</sup>

Demographic Characteristics	Kidney Disease <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	2.9	2.5	-	3.3
<b>Age</b>				
18-24	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
25-34	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
35-44	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
45-54	1.5	0.9	-	2.2
55-64	4.5	3.3	-	5.6
65+	7.0	5.8	-	8.1
<b>Gender</b>				
Male	2.2	1.7	-	2.7
Female	3.6	3.0	-	4.2
<b>Race/Ethnicity</b>				
White, Non-Hispanic	2.6	2.2	-	3.0
Black, Non-Hispanic	5.1	3.2	-	7.1
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Multi-Racial	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
<b>Annual Household Income</b>				
<\$15,000	5.7	3.9	-	7.6
\$15,000-\$24,999	4.7	3.4	-	6.0
\$25,000-\$34,999	3.9	2.6	-	5.2
\$35,000-\$49,999	2.0	1.2	-	2.9
\$50,000-\$74,999	1.7	1.0	-	2.4
\$75,000+	1.1	0.6	-	1.6
<b>Education</b>				
Less than High School	4.1	2.7	-	5.6
High School Diploma	3.1	2.4	-	3.8
Some College	2.8	2.0	-	3.6
College Graduate	2.3	1.7	-	2.9

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they have kidney disease (not including kidney stones, bladder infection or incontinence).

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.



# Diabetes

Diabetes can result in serious complications such as heart disease, stroke, kidney disease, blindness and death. Age, obesity, family history, history of gestational diabetes, impaired glucose metabolism, physical inactivity and race/ethnicity can contribute to one's risk of developing diabetes.<sup>ix</sup>

Respondents were asked, "Has a doctor, nurse or other health professional ever told you that you have diabetes?"

- In 2014, 11.7 percent of Ohio adults reported ever being told by a doctor, nurse or other healthcare professional that they have diabetes.
- The prevalence of diabetes increases as age increases among those ages 35 and older.
- The prevalence of diabetes does not significantly differ by gender.
- The prevalence of diabetes is significantly higher among black, non-Hispanic adults (17.1 percent) compared to white, non-Hispanic adults (11.1 percent).
- The prevalence of diabetes decreases as annual household income increases; 18.9 percent of adults with an annual household income less than \$15,000 have diabetes, compared to 6.4 percent of those with an annual household income of \$75,000 or more.
- The prevalence of diabetes is significantly lower among college graduates compared to those adults without a college degree.

**Table 9. Prevalence of Diabetes by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Diabetes <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	11.7	10.9	-	12.6
<b>Age</b>				
18-24	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
25-34	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
35-44	5.8	4.0	-	7.5
45-54	12.3	10.1	-	14.6
55-64	18.7	16.4	-	20.9
65+	24.0	22.0	-	26.0
<b>Gender</b>				
Male	12.2	10.9	-	13.5
Female	11.3	10.2	-	12.3
<b>Race/Ethnicity</b>				
White, Non-Hispanic	11.1	10.2	-	11.9
Black, Non-Hispanic	17.1	13.7	-	20.5
Hispanic	12.9	6.5	-	19.3
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Multi-Racial	12.4	5.8	-	18.9
<b>Annual Household Income</b>				
<\$15,000	18.9	15.4	-	22.4
\$15,000-\$24,999	17.2	14.6	-	19.8
\$25,000-\$34,999	13.6	10.8	-	16.3
\$35,000-\$49,999	10.4	8.4	-	12.5
\$50,000-\$74,999	9.7	7.8	-	11.7
\$75,000+	6.4	5.2	-	7.6
<b>Education</b>				
Less than High School	14.8	11.6	-	18.1
High School Diploma	13.6	12.1	-	15.1
Some College	11.8	10.3	-	13.3
College Graduate	7.3	6.3	-	8.4

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they have diabetes.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.



# Prediabetes

Prediabetes is a condition in which blood glucose or hemoglobin A1C levels are elevated but not high enough to be classified as diabetes. People with prediabetes have an increased risk of developing type 2 diabetes, heart disease and stroke, but not everyone with prediabetes will progress to diabetes.<sup>x</sup>

Respondents were asked, “Have you ever been told by a doctor, nurse or other health professional that you have prediabetes or borderline diabetes?”

- In 2014, 7.6 percent of Ohio adults reported being told by a doctor that they have prediabetes.
- The prevalence of prediabetes is significantly higher among adults ages 45 and older compared to those younger than 45.
- The prevalence of prediabetes does not significantly differ by gender.
- The prevalence of prediabetes does not significantly differ by race/ethnicity.
- The prevalence of prediabetes decreases as annual household income increases.
- The prevalence of prediabetes does not significantly differ by education.

**Table 10. Prevalence of Prediabetes by Demographic Characteristics, Ohio, 2014**  
**Prediabetes<sup>1</sup>**

Demographic Characteristics	Prevalence (%)	95% Confidence Interval			
<b>Total</b>	7.6	6.8	-	8.4	
<b>Age</b>					
18-24	3.4	1.2	-	5.5	
25-34	2.7	1.1	-	4.4	
35-44	4.9	3.1	-	6.6	
45-54	9.3	7.2	-	11.4	
55-64	10.8	8.9	-	12.8	
65+	13.1	11.3	-	14.9	
<b>Gender</b>					
Male	7.2	6.0	-	8.3	
Female	8.0	6.9	-	9.1	
<b>Race/Ethnicity</b>					
White, Non-Hispanic	7.5	6.7	-	8.4	
Black, Non-Hispanic	8.9	5.8	-	12.1	
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
Multi-Racial	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>	
<b>Annual Household Income</b>					
<\$15,000	9.7	6.1	-	13.2	
\$15,000-\$24,999	9.8	7.5	-	12.0	
\$25,000-\$34,999	9.1	5.9	-	12.3	
\$35,000-\$49,999	8.1	5.8	-	10.4	
\$50,000-\$74,999	6.3	4.6	-	8.0	
\$75,000+	6.1	4.8	-	7.4	
<b>Education</b>					
Less than High School	10.1	6.7	-	13.6	
High School Diploma	7.4	6.1	-	8.7	
Some College	7.2	5.8	-	8.7	
College Graduate	7.3	6.1	-	8.4	

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they have prediabetes or borderline diabetes.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

# Chronic Obstructive Pulmonary Disease

Chronic Obstructive Pulmonary Disease (COPD), which includes emphysema and chronic bronchitis, is a disease where inflammation of the airways and destruction of lung tissue results in shortness of breath. COPD can cause long-term disability and is the third leading cause of death in the United States.<sup>xi</sup>

Respondents were asked, “Have you ever been told by a doctor, nurse or other health professional that you have Chronic Obstructive Pulmonary Disease or COPD, emphysema or chronic bronchitis?”

- In 2014, 8.2 percent of Ohio adults reported being told by a doctor, nurse or other health professional that they have COPD.
- The prevalence of COPD increases as age increases.
- The prevalence of COPD is significantly higher among females (9.4 percent) compared to males (6.8 percent).
- The prevalence of COPD does not significantly differ by race/ethnicity.
- The prevalence of COPD decreases as annual household income increases; 22.0 percent of adults with an annual household income less than \$15,000 have COPD, compared to 2.5 percent of those with an annual household income of \$75,000 or more.
- The prevalence of COPD decreases as education level increases; 17.6 percent of adults with less than a high school education have COPD, compared to 2.9 percent of those with a college degree.

**Table 11. Prevalence of Chronic Obstructive Pulmonary Disease (COPD) by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	COPD <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	8.2	7.4	-	8.9
<b>Age</b>				
18-24	2.5	0.8	-	4.2
25-34	4.1	2.2	-	6.0
35-44	4.5	2.8	-	6.1
45-54	8.2	6.4	-	10.1
55-64	11.8	10.1	-	13.6
65+	14.7	13.0	-	16.4
<b>Gender</b>				
Male	6.8	5.8	-	7.9
Female	9.4	8.4	-	10.4
<b>Race/Ethnicity</b>				
White, Non-Hispanic	7.9	7.2	-	8.7
Black, Non-Hispanic	10.6	7.5	-	13.7
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Multi-Racial	13.8	6.0	-	21.7
<b>Annual Household Income</b>				
<\$15,000	22.0	18.1	-	25.9
\$15,000-\$24,999	12.0	9.9	-	14.1
\$25,000-\$34,999	9.5	7.2	-	11.8
\$35,000-\$49,999	7.6	5.4	-	9.7
\$50,000-\$74,999	3.7	2.5	-	5.0
\$75,000+	2.5	1.7	-	3.3
<b>Education</b>				
Less than High School	17.6	14.1	-	21.0
High School Diploma	9.9	8.6	-	11.2
Some College	6.6	5.3	-	7.8
College Graduate	2.9	2.1	-	3.7

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they have COPD, emphysema or chronic bronchitis.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

# Depression

Depression is a serious, life-long condition that affects thoughts, feelings, behavior, mood and physical health. It is estimated that 25 million adults are affected by major depression every year in the United States.<sup>xii</sup>

Respondents were asked, “Have you ever been told by a doctor, nurse or other health professional that you have a depressive order, including depression, major depression, dysthymia or minor depression?”

- In 2014, 20.9 percent of Ohio adults reported ever being told by a doctor, nurse or other health professional that they have a depressive disorder.
- The prevalence of depression is significantly lower among adults 65 and older compared to adults 25-64 years of age.
- The prevalence of depression is significantly higher among females (26.2 percent) compared to males (15.2 percent).
- The prevalence of depression does not significantly differ by race/ethnicity.
- The prevalence of depression among adults with an annual household income less than \$15,000 was 43.8 percent; the prevalence of depression is significantly higher among those with an annual household income less than \$15,000 compared to those with an annual household income of \$15,000 or higher.
- The prevalence of depression decreases as education level increases.

**Table 12. Prevalence of Depression by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Depression <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	20.9	19.6	-	22.1
<b>Age</b>				
18-24	18.8	14.3	-	23.4
25-34	26.5	22.5	-	30.6
35-44	20.8	17.4	-	24.2
45-54	20.1	17.5	-	22.7
55-64	25.1	22.6	-	27.6
65+	15.4	13.7	-	17.0
<b>Gender</b>				
Male	15.2	13.6	-	16.8
Female	26.2	24.4	-	28.0
<b>Race/Ethnicity</b>				
White, Non-Hispanic	21.3	20.0	-	22.7
Black, Non-Hispanic	22.1	17.3	-	26.9
Hispanic	16.6	9.5	-	23.8
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Multi-Racial	23.2	14.0	-	32.5
<b>Annual Household Income</b>				
<\$15,000	43.8	38.8	-	48.8
\$15,000-\$24,999	28.0	24.4	-	31.6
\$25,000-\$34,999	22.2	18.3	-	26.1
\$35,000-\$49,999	16.1	13.0	-	19.2
\$50,000-\$74,999	15.5	12.7	-	18.3
\$75,000+	14.1	11.9	-	16.4
<b>Education</b>				
Less than High School	31.1	26.1	-	36.1
High School Diploma	20.0	18.0	-	22.0
Some College	21.7	19.3	-	24.1
College Graduate	15.8	14.1	-	17.6

<sup>1</sup>Among adults, the proportion of those who reported ever being told by a doctor, nurse or other health professional that they have a depressive disorder, including depression, major depression, dysthymia or minor depression.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

# Smoking

Smoking increases the risk of heart disease, stroke, COPD (including emphysema and chronic bronchitis) and cancer, and is the leading preventable cause of death in the United States. Nearly every organ of the body is harmed by smoking. Quitting smoking has been shown to reduce the risk of heart attack, stroke and cancer.<sup>xiii</sup>

Respondents were asked, “Have you smoked at least 100 cigarettes in your entire life?” If yes, “Do you now smoke cigarettes every day, some days or not at all?”

- In 2014, an estimated 21.0 percent of Ohio adults were current cigarette smokers.
- The prevalence of cigarette smoking is significantly lower among adults 65 and older compared to other age groups.
- The prevalence of cigarette smoking does not significantly differ by gender.
- The prevalence of cigarette smoking does not significantly differ by race/ethnicity.
- The prevalence of cigarette smoking decreases as annual household income increases; 40.6 percent of adults with an annual household income less than \$15,000 currently smoke cigarettes.
- The prevalence of cigarette smoking decreases as education level increases; 38.9 percent of adults with less than a high school education are current smokers, compared to 7.3 percent of those with a college degree.

**Table 13. Prevalence of Current Smoking by Demographic Characteristics, Ohio, 2014**  
Current Smoking<sup>1</sup>

Demographic Characteristics	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	21.0	19.7	-	22.3
<b>Age</b>				
18-24	19.2	14.7	-	23.8
25-34	31.5	27.1	-	36.0
35-44	23.0	19.4	-	26.6
45-54	24.7	21.6	-	27.8
55-64	20.5	18.2	-	22.9
65+	10.2	8.7	-	11.7
<b>Gender</b>				
Male	21.7	19.6	-	23.7
Female	20.4	18.7	-	22.1
<b>Race/Ethnicity</b>				
White, Non-Hispanic	20.7	19.3	-	22.1
Black, Non-Hispanic	22.0	17.3	-	26.7
Hispanic	20.8	12.2	-	29.3
Other, Non-Hispanic	19.9	10.6	-	29.2
Multi-Racial	29.2	15.9	-	42.4
<b>Annual Household Income</b>				
<\$15,000	40.6	35.5	-	45.6
\$15,000-\$24,999	31.1	27.2	-	34.9
\$25,000-\$34,999	22.9	18.6	-	27.2
\$35,000-\$49,999	22.2	18.3	-	26.1
\$50,000-\$74,999	14.7	11.8	-	17.7
\$75,000+	10.7	8.6	-	12.8
<b>Education</b>				
Less than High School	38.9	33.5	-	44.4
High School Diploma	25.0	22.7	-	27.3
Some College	19.7	17.3	-	22.0
College Graduate	7.3	6.0	-	8.6

<sup>1</sup>Among adults, the proportion of those who reported having smoked at least 100 cigarettes in their life and that they currently smoke, either every day or some days.

## Binge Drinking

About 90 percent of alcohol consumption among youth under age 21 and more than half of alcohol consumption among adults is in the form of binge drinking. Binge drinking is associated with multiple health problems such as unintentional injury (crashes, falls, burns, drowning), intentional injury and violence, alcohol poisoning and many others.<sup>xiv</sup>

Respondents were asked, “Considering all types of alcoholic beverages, how many times during the past 30 days did you have (5 for men, 4 for women) or more drinks on an occasion?”

- In 2014, 18.0 percent of Ohio adults reported binge drinking in the past month.
- The prevalence of binge drinking is significantly lower among adults ages 45 and older compared to those younger than 45.
- The prevalence of binge drinking is significantly higher among males (24.1 percent) compared to females (12.5 percent).
- The prevalence of binge drinking does not significantly differ by race/ethnicity.
- The prevalence of binge drinking is significantly higher among respondents with an annual household income of \$75,000 or more compared to those respondents with an annual household income less than \$25,000.
- The prevalence of binge drinking does not significantly differ by education level.

**Table 14. Prevalence of Binge Drinking by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Binge Drinking <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	18.0	16.8	-	19.3
<b>Age</b>				
18-24	28.9	23.7	-	34.2
25-34	29.6	25.3	-	34.0
35-44	24.6	21.0	-	28.3
45-54	16.2	13.7	-	18.7
55-64	12.4	10.4	-	14.4
65+	4.1	3.1	-	5.1
<b>Gender</b>				
Male	24.1	22.0	-	26.2
Female	12.5	11.0	-	14.0
<b>Race/Ethnicity</b>				
White, Non-Hispanic	18.8	17.4	-	20.2
Black, Non-Hispanic	15.2	10.9	-	19.4
Hispanic	15.1	8.4	-	21.8
Other, Non-Hispanic	16.7	6.9	-	26.5
Multi-Racial	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
<b>Annual Household Income</b>				
<\$15,000	13.1	9.3	-	16.9
\$15,000-\$24,999	15.0	11.8	-	18.3
\$25,000-\$34,999	18.7	14.3	-	23.2
\$35,000-\$49,999	18.8	15.1	-	22.6
\$50,000-\$74,999	21.7	18.1	-	25.3
\$75,000+	22.5	19.8	-	25.1
<b>Education</b>				
Less than High School	14.9	10.1	-	19.7
High School Diploma	16.2	14.1	-	18.2
Some College	20.2	17.6	-	22.8
College Graduate	19.6	17.5	-	21.7

<sup>1</sup>Among adults, the proportion of those who reported consuming five or more drinks per occasion (males) or four or more drinks per occasion (females) at least once in the past month.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

## Seat Belt Use

More than 2.2 million adult drivers and passengers were treated in emergency departments for motor vehicle crash injuries in the United States in 2012. Seat belt use saves lives and reduces crash related injuries.<sup>xv</sup>

Respondents were asked, “How often do you use seat belts when you drive or ride in a car?”

- In 2014, 90.8 percent of Ohio adults reported using seat belts always or nearly always.
- The prevalence of seat belt use is significantly lower among adults ages 18-34 compared to those ages 45 and older.
- The prevalence of seat belt use is significantly higher among females (94.1 percent) compared to males (87.4 percent).
- The prevalence of seat belt use is significantly higher among white, non-Hispanic adults (92.4 percent) compared to black, non-Hispanic adults (82.9 percent) and adults of other, non-Hispanic race/ethnicity (80.6 percent).
- The prevalence of seat belt use is significantly higher among respondents with an annual household income of \$75,000 or more compared to those respondents with an annual household income less than \$35,000.
- The prevalence of seat belt use is significantly higher among college graduates compared to those with less than a college degree.

**Table 15. Prevalence of Seat Belt Use by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Seat Belt Use <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	90.8	89.9	-	91.8
<b>Age</b>				
18-24	86.4	82.6	-	90.1
25-34	87.3	83.8	-	90.7
35-44	91.0	88.8	-	93.2
45-54	92.9	91.3	-	94.6
55-64	92.7	91.2	-	94.2
65+	92.6	91.3	-	93.9
<b>Gender</b>				
Male	87.4	85.8	-	89.0
Female	94.1	93.1	-	95.1
<b>Race/Ethnicity</b>				
White, Non-Hispanic	92.4	91.6	-	93.2
Black, Non-Hispanic	82.9	78.3	-	87.5
Hispanic	89.3	83.4	-	95.2
Other, Non-Hispanic	80.6	70.5	-	90.8
Multi-Racial	89.3	79.3	-	99.2
<b>Annual Household Income</b>				
<\$15,000	84.6	80.5	-	88.7
\$15,000-\$24,999	88.0	85.3	-	90.7
\$25,000-\$34,999	88.9	85.7	-	92.0
\$35,000-\$49,999	91.8	89.5	-	94.2
\$50,000-\$74,999	91.9	89.7	-	94.0
\$75,000+	95.1	93.8	-	96.4
<b>Education</b>				
Less than High School	86.9	83.2	-	90.7
High School Diploma	88.6	87.0	-	90.2
Some College	90.4	88.5	-	92.2
College Graduate	96.7	95.8	-	97.6

<sup>1</sup>Among adults, the proportion of those who reported wearing a seatbelt always or nearly always.

## Physical Activity

Regular physical activity reduces the risk for many adverse health outcomes. The *2008 Physical Activity Guidelines for Americans* recommends for adults at least 150 minutes of moderate-intensity physical activity per week and muscle-strengthening activities two or more days a week.<sup>xvi</sup>

Respondents were asked, “During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening or walking for exercise?”

- In 2014, an estimated 75.0 percent of Ohio adults reported any physical activity in the past month.
- The prevalence of any physical activity decreases as age increases.
- The prevalence of any physical activity does not significantly differ by gender.
- The prevalence of any physical activity does not significantly differ by race/ethnicity.
- The prevalence of any physical activity is higher among respondents with an annual household income \$35,000 or more compared to those respondents with an annual household income less than \$35,000.
- The prevalence of any physical activity increases as education increases.

**Table 16. Prevalence of Any Physical Activity by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	(Any) Physical Activity <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	75.0	73.7	-	76.3
<b>Age</b>				
18-24	85.5	81.7	-	89.3
25-34	80.9	77.1	-	84.7
35-44	78.1	74.4	-	81.9
45-54	74.4	71.4	-	77.4
55-64	71.2	68.6	-	73.8
65+	65.3	63.1	-	67.5
<b>Gender</b>				
Male	76.2	74.2	-	78.2
Female	74.0	72.3	-	75.6
<b>Race/Ethnicity</b>				
White, Non-Hispanic	75.7	74.3	-	77.1
Black, Non-Hispanic	71.2	66.4	-	76.0
Hispanic	75.6	67.2	-	84.1
Other, Non-Hispanic	70.5	61.6	-	79.3
Multi-Racial	75.5	64.5	-	86.5
<b>Annual Household Income</b>				
<\$15,000	61.7	56.8	-	66.5
\$15,000-\$24,999	64.6	60.9	-	68.4
\$25,000-\$34,999	67.8	63.3	-	72.3
\$35,000-\$49,999	78.0	74.7	-	81.3
\$50,000-\$74,999	78.7	75.3	-	82.2
\$75,000+	86.7	84.6	-	88.8
<b>Education</b>				
Less than High School	59.0	53.7	-	64.3
High School Diploma	67.7	65.4	-	70.0
Some College	79.6	77.4	-	81.8
College Graduate	88.5	86.9	-	90.0

<sup>1</sup>Among adults, the proportion of those who reported that they participated in any regular physical activities or exercises during the past month.

# Obesity

More than one-third of American adults are obese. Conditions associated with obesity include heart disease, stroke, type 2 diabetes and some cancers.<sup>xvii</sup>

Overweight and obesity are determined by calculating a body mass index (BMI) based on one's height and weight. A BMI of 30 or above is considered to be obese, which for a 5'9" adult would be a weight of 203 pounds or more. BRFSS height and weight data are self-reported. A previous study found that female BRFSS participants, on average, under-report their weight, while male participants over-report their height.<sup>xviii</sup> This bias should be considered when interpreting BRFSS obesity prevalence estimates.

- In 2014, 32.6 percent of Ohio adults were classified as obese.
- The prevalence of obesity is significantly higher among adults ages 25 and older compared to adults ages 18-24.
- The prevalence of obesity does not significantly differ by gender.
- The prevalence of obesity is significantly higher among black, non-Hispanic adults (41.9 percent) compared to white, non-Hispanic adults (32.0 percent) and other, non-Hispanic adults (18.1 percent).
- The prevalence of obesity is significantly lower among adults with an annual household income of \$75,000 or more (28.4 percent) compared to adults with an annual household income less than \$15,000 (42.0 percent).
- The prevalence of obesity is significantly lower among college graduates compared to those without a college degree.

**Table 17. Prevalence of Obesity by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Obesity <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	32.6	31.2	-	34.1
<b>Age</b>				
18-24	15.8	11.7	-	19.9
25-34	30.5	26.0	-	34.9
35-44	31.5	27.6	-	35.3
45-54	39.8	36.4	-	43.1
55-64	39.4	36.6	-	42.3
65+	33.4	31.1	-	35.7
<b>Gender</b>				
Male	32.8	30.7	-	34.9
Female	32.4	30.5	-	34.3
<b>Race/Ethnicity</b>				
White, Non-Hispanic	32.0	30.5	-	33.5
Black, Non-Hispanic	41.9	36.5	-	47.3
Hispanic	26.4	17.7	-	35.2
Other, Non-Hispanic	18.1	10.9	-	25.3
Multi-Racial	41.6	29.0	-	54.2
<b>Annual Household Income</b>				
<\$15,000	42.0	37.0	-	47.1
\$15,000-\$24,999	34.7	30.9	-	38.4
\$25,000-\$34,999	29.0	24.8	-	33.3
\$35,000-\$49,999	34.4	30.4	-	38.3
\$50,000-\$74,999	35.7	31.8	-	39.5
\$75,000+	28.4	25.8	-	31.0
<b>Education</b>				
Less than High School	36.5	31.3	-	41.7
High School Diploma	34.2	31.8	-	36.6
Some College	34.5	31.7	-	37.2
College Graduate	25.8	23.8	-	27.9

<sup>1</sup>Among adults, the proportion of respondents whose BMI was greater than or equal to 30.0.



## Disability

Disability is a general term that can include limitations related to vision, movement, thinking, learning, remembering, hearing, communicating, mental health and social relationships.

Respondents were asked, “Are you limited in any way in any activities because of physical, mental or emotional problems?”

- In 2014, 22.4 percent of Ohio adults reported a physical, mental or emotional limitation or disability.
- The prevalence of disability is significantly lower among adults ages 18-44 compared to those ages 45 and older.
- The prevalence of disability is significantly higher among females (24.4 percent) compared to males (20.4 percent).
- The prevalence of disability is significantly lower among Other, non-Hispanics (11.2 percent) compared to white non-Hispanics (22.5 percent), black non-Hispanics (23.1 percent) and multi-racial adults.
- The prevalence of disability decreases as annual household income increases.
- The prevalence of disability decreases as education level increases; 36.1 percent of adults with less than a high school education have a disability, compared to 13.7 percent of those with a college degree.

**Table 18. Prevalence of Disability by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Disability <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	22.4	21.2	-	23.6
<b>Age</b>				
18-24	8.8	5.5	-	12.0
25-34	18.5	14.7	-	22.3
35-44	19.0	15.6	-	22.3
45-54	25.4	22.4	-	28.3
55-64	27.9	25.4	-	30.4
65+	29.6	27.4	-	31.8
<b>Gender</b>				
Male	20.4	18.6	-	22.1
Female	24.4	22.7	-	26.0
<b>Race/Ethnicity</b>				
White, Non-Hispanic	22.5	21.2	-	23.8
Black, Non-Hispanic	23.1	18.8	-	27.5
Hispanic	19.3	11.3	-	27.3
Other, Non-Hispanic	11.2	5.5	-	16.8
Multi-Racial	36.9	24.8	-	49.0
<b>Annual Household Income</b>				
<\$15,000	48.7	43.7	-	53.8
\$15,000-\$24,999	30.6	27.0	-	34.1
\$25,000-\$34,999	23.0	19.2	-	26.7
\$35,000-\$49,999	19.5	16.3	-	22.7
\$50,000-\$74,999	16.1	13.4	-	18.9
\$75,000+	12.0	10.0	-	13.9
<b>Education</b>				
Less than High School	36.1	30.9	-	41.2
High School Diploma	23.8	21.7	-	25.8
Some College	22.2	20.0	-	24.5
College Graduate	13.7	12.2	-	15.1

<sup>1</sup>Among adults, the proportion who reported that they were limited in any way in any activities because of physical, mental or emotional problems.

## Access to Dental Care

About 108 million Americans have no dental insurance and 49 million Americans live in Dental Health Professional Shortage Areas.<sup>xix</sup>

Respondents were asked, “How long has it been since you last visited a dentist or a dental clinic for any reason?”

- In 2014, 65.3 percent of Ohio adults reported they had visited a dentist or dental clinic in the past year.
- Access to dental care is significantly higher among adults ages 18-24 compared to those ages 25-34.
- Access to dental care is significantly higher among females (68.6 percent) compared to males (61.9 percent).
- Access to dental care does not significantly differ by race/ethnicity.
- Access to dental care increases as annual household income increases.
- Access to dental care increases as education level increases; 48.9 percent of adults with less than a high school education visited a dentist in the past year, compared to 82.7 percent of those with a college degree.

**Table 19. Access to Dental Care by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Dental Care <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	65.3	63.9	-	66.8
<b>Age</b>				
18-24	70.0	64.9	-	75.1
25-34	59.3	54.8	-	63.9
35-44	66.6	62.7	-	70.5
45-54	67.6	64.5	-	70.8
55-64	66.0	63.2	-	68.7
65+	63.7	61.4	-	66.0
<b>Gender</b>				
Male	61.9	59.6	-	64.1
Female	68.6	66.7	-	70.4
<b>Race/Ethnicity</b>				
White, Non-Hispanic	66.6	65.1	-	68.2
Black, Non-Hispanic	60.4	55.2	-	65.7
Hispanic	68.5	58.8	-	78.3
Other, Non-Hispanic	58.7	48.7	-	68.7
Multi-Racial	55.2	42.5	-	67.9
<b>Annual Household Income</b>				
<\$15,000	46.0	41.0	-	51.1
\$15,000-\$24,999	49.1	45.1	-	53.0
\$25,000-\$34,999	55.3	50.4	-	60.1
\$35,000-\$49,999	62.0	58.0	-	66.0
\$50,000-\$74,999	76.9	73.7	-	80.1
\$75,000+	83.4	81.0	-	85.9
<b>Education</b>				
Less than High School	48.9	43.3	-	54.4
High School Diploma	57.7	55.3	-	60.2
Some College	67.4	64.7	-	70.1
College Graduate	82.7	80.8	-	84.6

<sup>1</sup>Among adults, the proportion of those who reported that they had visited a dentist or dental clinic in the past year.

## Access to Healthcare Coverage

Healthcare coverage is a determinant of access to health care and health status. The major source of coverage for adults under age 65 is private employee sponsored group health insurance.<sup>xx</sup>

Respondents were asked, “Do you have any kind of healthcare coverage, including health insurance, prepaid plans such as HMOs, government plans such as Medicare or Indian Health Service?”

- In 2014, 89.8 percent of Ohio adults reported they have healthcare coverage.
- Access to healthcare coverage is significantly higher among adults ages 65 and older compared to those younger than 65 years of age.
- Access to healthcare coverage is significantly higher among females (92.1 percent) compared to males (87.3 percent).
- Access to healthcare coverage is significantly higher among white, non-Hispanic adults compared to adults of any other race/ethnicity.
- Access to healthcare coverage increases as annual household income increases.
- Access to healthcare coverage increases as education level increases; 79.1 percent of adults with less than a high school education have healthcare coverage, compared to 96.7 percent of those with a college degree.

**Table 20. Access to Healthcare Coverage by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Access to Healthcare Coverage <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	89.8	88.7	-	90.9
<b>Age</b>				
18-24	87.2	83.5	-	91.0
25-34	80.2	76.2	-	84.3
35-44	89.2	86.3	-	92.0
45-54	89.4	87.2	-	91.6
55-64	90.8	89.0	-	92.6
65+	98.4	97.8	-	99.1
<b>Gender</b>				
Male	87.3	85.5	-	89.1
Female	92.1	91.0	-	93.2
<b>Race/Ethnicity</b>				
White, Non-Hispanic	91.2	90.1	-	92.2
Black, Non-Hispanic	83.3	78.8	-	87.9
Hispanic	84.0	76.9	-	91.1
Other, Non-Hispanic	84.3	76.0	-	92.5
Multi-Racial	86.1	77.9	-	94.3
<b>Annual Household Income</b>				
<\$15,000	78.9	74.2	-	83.5
\$15,000-\$24,999	82.9	79.6	-	86.2
\$25,000-\$34,999	86.7	82.4	-	91.0
\$35,000-\$49,999	90.7	88.0	-	93.4
\$50,000-\$74,999	95.7	93.8	-	97.6
\$75,000+	97.7	96.6	-	98.8
<b>Education</b>				
Less than High School	79.1	74.3	-	84.0
High School Diploma	88.3	86.4	-	90.1
Some College	90.5	88.6	-	92.3
College Graduate	96.7	95.7	-	97.6

<sup>1</sup>Among adults, the proportion of those who reported any kind of healthcare coverage, including health insurance, prepaid plans such as HMOs, government plans such as Medicare or Indian Health Service.

## Mammogram Testing

Breast cancer is the most common cancer among women in the United States and Ohio. Regular mammograms can lower the risk of dying from breast cancer.<sup>xxi</sup>

Respondents were asked, “Have you ever had a mammogram?” followed by “How long has it been since you had your last mammogram?”

- In 2014, 73.9 percent of Ohio women ages 50 and older reported that they had a mammogram in the past two years.
- Prevalence of mammogram testing does not significantly differ by age.
- Prevalence of mammogram testing is significantly higher among black non-Hispanic women (83.8 percent) compared to white, non-Hispanic women (72.3 percent).
- Prevalence of mammogram testing is significantly higher among women with an annual household of \$75,000 or more compared to those with an annual household income less than \$50,000.
- Prevalence of mammogram testing is significantly higher among women with a college degree compared to those with some college or less.

**Table 21. Prevalence of Mammogram Testing by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Mammogram (Last 2 Years, Women 50+) <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	73.9	72.0	-	75.9
<b>Age</b>				
50-54	73.4	68.5	-	78.4
55-64	75.4	72.0	-	78.7
65+	73.0	70.3	-	75.8
<b>Race/Ethnicity</b>				
White, Non-Hispanic	72.3	70.2	-	74.4
Black, Non-Hispanic	83.8	77.2	-	90.5
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Other, Non-Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Multi-Racial	71.8	55.6	-	88.0
<b>Annual Household Income</b>				
<\$15,000	72.2	66.3	-	78.1
\$15,000-\$24,999	65.6	60.4	-	70.8
\$25,000-\$34,999	70.0	63.5	-	76.6
\$35,000-\$49,999	72.8	67.2	-	78.4
\$50,000-\$74,999	77.9	72.7	-	83.1
\$75,000+	83.4	79.4	-	87.4
<b>Education</b>				
Less than High School	67.8	60.7	-	74.9
High School Diploma	72.0	68.9	-	75.1
Some College	73.7	70.0	-	77.4
College Graduate	83.3	80.6	-	86.0

<sup>1</sup>Among women 50+, the proportion of those who reported getting a mammogram in the past two years.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

## Pap Testing

Pap testing is recommended for all women ages 21 to 65 years old (except for women who have had their uterus and cervix removed and have no history of cervical cancer). The Pap test is one of two tests that can help prevent cervical cancer or help with early detection.<sup>xxii</sup>

Respondents were asked, “A Pap test is a test for cancer of the cervix. Have you ever had a Pap test?” followed by “How long has it been since your last Pap test?”

- In 2014, 73.7 percent of Ohio women reported that they had a Pap test in the past three years.
- Prevalence of Pap testing is significantly lower among women ages 18-24 and 65 and older compared to women ages 25-64.
- Prevalence of Pap testing does not significantly differ by race.
- Prevalence of Pap testing is significantly higher among women with annual household income of \$75,000 or more compared to those with an annual household income less than \$50,000.
- Prevalence of Pap testing is significantly higher among women with a college degree or some college compared to those with a high school degree or less.

**Table 22. Prevalence of Pap Testing by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Pap Test (Last 3 years) <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	73.7	71.6	-	75.9
<b>Age</b>				
18-24	54.0	45.8	-	62.2
25-34	85.3	81.0	-	89.7
35-44	85.6	81.9	-	89.2
45-54	82.7	79.0	-	86.3
55-64	76.5	72.5	-	80.6
65+	52.3	48.2	-	56.5
<b>Race/Ethnicity</b>				
White, Non-Hispanic	73.5	71.2	-	75.7
Black, Non-Hispanic	76.1	68.3	-	84.0
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Other, Non-Hispanic	57.4	40.3	-	74.4
Multi-Racial	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
<b>Annual Household Income</b>				
<\$15,000	69.3	62.5	-	76.2
\$15,000-\$24,999	65.0	58.9	-	71.1
\$25,000-\$34,999	66.6	59.5	-	73.8
\$35,000-\$49,999	71.9	65.5	-	78.4
\$50,000-\$74,999	80.1	75.1	-	85.1
\$75,000+	87.1	83.6	-	90.7
<b>Education</b>				
Less than High School	56.3	47.1	-	65.5
High School Diploma	66.8	62.9	-	70.7
Some College	75.9	72.0	-	79.7
College Graduate	86.3	83.8	-	88.7

<sup>1</sup>Among women, the proportion of those who reported having a Pap test in the last three years.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

## Colorectal Cancer Screening

Colorectal cancer can be prevented with regular colorectal screenings. Recommended screenings include a high-sensitivity fecal occult blood test (FOBT) every year; or sigmoidoscopy every five years with FOBT every three years; or colonoscopy every 10 years among those ages 50-75.<sup>xxiii</sup>

Respondents were asked about their last FOBT, sigmoidoscopy and colonoscopy to determine whether screening guidelines were met.

- In 2014, 65.1 percent of Ohio adults ages 50-75 met colorectal cancer screening guidelines.
- Colorectal cancer screening rates increase as age increases.
- The prevalence of colorectal cancer screening does not significantly differ by gender.
- Colorectal cancer screening rates are significantly lower among adults with multiple races compared to white, non-Hispanics and black, non-Hispanics.
- Colorectal cancer screening rates are significantly higher among adults with annual household income of \$75,000 or more compared to those with annual household income less than \$25,000.
- Colorectal cancer screening rates are significantly higher among adults with a college degree compared to those with a high school degree or less.

**Table 23. Prevalence of Adults Meeting Colorectal Cancer Screening Guidelines by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	Colorectal Cancer Screening (Ages 50-75) <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	65.1	63.2	-	67.0
<b>Age</b>				
50-54	47.6	43.2	-	52.1
55-64	65.2	62.4	-	68.0
65-75	78.7	76.2	-	81.1
<b>Gender</b>				
Male	65.6	62.6	-	68.5
Female	64.6	62.2	-	67.1
<b>Race/Ethnicity</b>				
White, Non-Hispanic	64.8	62.9	-	66.8
Black, Non-Hispanic	71.3	64.4	-	78.2
Hispanic	N/A <sup>2</sup>	N/A <sup>2</sup>	-	N/A <sup>2</sup>
Other, Non-Hispanic	59.5	41.7	-	77.3
Multi-Racial	42.8	27.0	-	58.5
<b>Annual Household Income</b>				
<\$15,000	57.6	50.8	-	64.4
\$15,000-\$24,999	60.5	55.4	-	65.7
\$25,000-\$34,999	67.4	61.6	-	73.2
\$35,000-\$49,999	67.3	62.3	-	72.3
\$50,000-\$74,999	63.1	58.2	-	67.9
\$75,000+	71.2	67.7	-	74.7
<b>Education</b>				
Less than High School	56.9	49.2	-	64.6
High School Diploma	60.5	57.3	-	63.7
Some College	67.8	64.4	-	71.2
College Graduate	73.1	70.2	-	75.9

<sup>1</sup>Among adults ages 50-75, the proportion of those meeting colorectal cancer screening guidelines.

<sup>2</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

# HIV Testing

Human immunodeficiency virus (HIV) weakens a person's immune system by destroying important cells that fight disease and infection. Although there is no cure for HIV, with proper medical care, HIV can be controlled. CDC recommends that everyone between the ages of 13 and 64 get tested for HIV at least once as part of routine health care.<sup>xxiv</sup>

Respondents were asked "Have you ever been tested for HIV? Do not count tests you may have had as part of a blood donation. Include testing fluid from your mouth."

- In 2014, 29.8 percent of Ohio adults reported that they had been tested for HIV.
- HIV testing rates are significantly higher among adults ages 25-44 compared to all other age groups.
- The prevalence of HIV testing does not significantly differ by gender.
- The prevalence of HIV testing is significantly lower among white, non-Hispanic adults compared to black, non-Hispanic, Hispanic and multi-racial adults.
- The prevalence of HIV testing is significantly higher among adults with an annual household income less than \$15,000 compared to those with an annual household income of \$15,000 or more.
- The prevalence of HIV testing is significantly higher among adults with some college (33.8 percent) compared to adults with a high school diploma (26.1 percent).

**Table 24. Prevalence of HIV Testing by Demographic Characteristics, Ohio, 2014**

Demographic Characteristics	HIV Testing <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	29.8	28.3	-	31.3
<b>Age</b>				
18-24	25.6	20.4	-	30.8
25-34	52.3	47.5	-	57.1
35-44	48.4	44.1	-	52.6
45-54	29.9	26.8	-	33.1
55-64	21.4	18.9	-	23.8
65+	8.3	6.9	-	9.8
<b>Gender</b>				
Male	28.0	25.7	-	30.3
Female	31.5	29.5	-	33.5
<b>Race/Ethnicity</b>				
White, Non-Hispanic	26.0	24.4	-	27.5
Black, Non-Hispanic	52.3	46.7	-	57.9
Hispanic	50.7	39.8	-	61.6
Other, Non-Hispanic	25.6	16.4	-	34.8
Multi-Racial	47.7	34.4	-	61.1
<b>Annual Household Income</b>				
<\$15,000	45.6	40.3	-	50.9
\$15,000-\$24,999	35.3	31.1	-	39.6
\$25,000-\$34,999	26.4	21.6	-	31.2
\$35,000-\$49,999	28.5	24.5	-	32.6
\$50,000-\$74,999	29.0	25.0	-	33.0
\$75,000+	26.9	24.2	-	29.7
<b>Education</b>				
Less than High School	31.0	25.4	-	36.5
High School Diploma	26.1	23.6	-	28.6
Some College	33.8	30.8	-	36.7
College Graduate	29.6	27.3	-	31.9

<sup>1</sup>Among adults, the proportion of those who reported having ever been tested for HIV.

## Flu Shot

Influenza (flu) is a serious disease that can lead to hospitalization or death. CDC recommends that everyone ages 6 months and older receive a flu shot annually to reduce the spread of seasonal flu.<sup>xxv</sup>

Respondents were asked “During the past 12 months, have you had either a flu shot or a flu vaccine that was sprayed in your nose?”

- In 2014, 38.1 percent of Ohio adults reported that they had received a flu shot in the past year.
- The prevalence of having a flu shot increases as age increases starting at ages 45-54.
- The prevalence of having a flu shot is significantly higher among females (41.1 percent) compared to males (34.7 percent).
- The prevalence of having a flu shot does not significantly differ by race/ethnicity.
- The prevalence of having a flu shot does not significantly differ by annual household income.
- The prevalence of having a flu shot is significantly higher among college graduates compared to those with some college or less education.

**Table 25. Prevalence of Having a Flu Shot by Demographic Characteristics, Ohio, 2014**

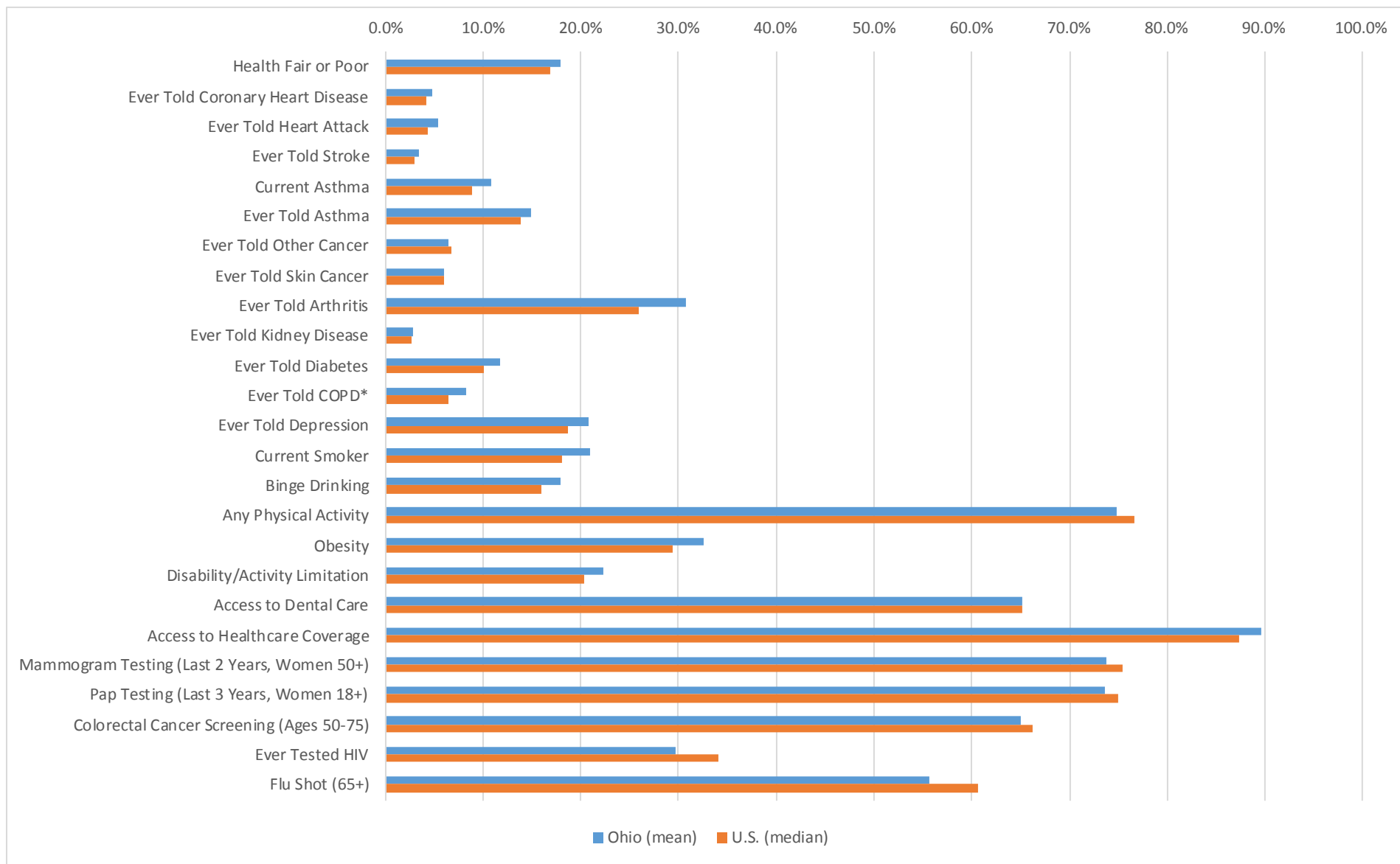
Demographic Characteristics	Flu Shot <sup>1</sup>			
	Prevalence (%)	95% Confidence Interval		
<b>Total</b>	38.1	36.6	-	39.5
<b>Age</b>				
18-24	29.2	23.9	-	34.5
25-34	27.4	23.3	-	31.5
35-44	28.3	24.8	-	31.8
45-54	34.9	31.8	-	38.1
55-64	44.7	42.0	-	46.7
65+	55.7	53.3	-	58.1
<b>Gender</b>				
Male	34.7	32.6	-	36.8
Female	41.1	39.2	-	43.0
<b>Race/Ethnicity</b>				
White, Non-Hispanic	38.7	37.2	-	40.3
Black, Non-Hispanic	32.7	27.7	-	37.8
Hispanic	40.2	29.6	-	50.9
Other, Non-Hispanic	44.4	34.3	-	54.4
Multi-Racial	30.4	18.1	-	42.7
<b>Annual Household Income</b>				
<\$15,000	35.4	30.6	-	40.2
\$15,000-\$24,999	36.7	33.1	-	40.4
\$25,000-\$34,999	36.7	32.2	-	41.1
\$35,000-\$49,999	34.5	30.8	-	38.1
\$50,000-\$74,999	37.9	34.1	-	41.6
\$75,000+	42.8	39.9	-	45.7
<b>Education</b>				
Less than High School	32.2	27.2	-	37.2
High School Diploma	33.3	31.0	-	35.5
Some College	38.5	35.8	-	41.3
College Graduate	47.9	45.5	-	50.2

<sup>1</sup>Among adults, the proportion of those who reported having received a flu shot in the past year.



## Appendix A—Ohio/U.S. BRFSS Data

**Figure A1. BRFSS Health Indicators: Ohio Compared to the United States, 2014**



\*COPD = Chronic Obstructive Pulmonary Disease.

## Appendix B—Ohio Regional BRFSS Data

**Table A1. Disease Prevalence and Health Behaviors by Region/County, Ohio, 2014**

	Health Fair/Poor				Ever Told Heart Attack or Coronary Heart Disease				Ever Told Stroke				Ever Told Asthma				Current Asthma			
	%	95% CI			%	95% CI			%	95% CI			%	95% CI			%	95% CI		
Region 1	25.8	21.0	-	30.6	10.1	7.5	-	12.8	4.5	2.5	-	6.6	17.9	13.4	-	22.4	14.2	10.0	-	18.4
Region 2	17.1	12.5	-	21.6	10.3	7.2	-	13.3	3.2	1.9	-	4.5	15.0	10.4	-	19.5	11.9	7.6	-	16.2
Region 3	17.7	13.4	-	21.9	6.5	4.5	-	8.5	NA <sup>1</sup>	NA <sup>1</sup>	-	NA <sup>1</sup>	11.8	8.1	-	15.6	10.5	6.8	-	14.2
Region 4	18.0	14.4	-	21.7	6.6	4.8	-	8.4	3.9	2.3	-	5.6	16.2	12.9	-	19.5	12.9	9.8	-	15.9
Region 5	17.0	13.5	-	20.6	7.9	5.3	-	10.4	3.6	1.7	-	5.5	13.2	9.8	-	16.6	8.9	6.4	-	11.4
Region 6	14.9	11.7	-	18.1	7.5	5.2	-	9.8	3.7	2.1	-	5.2	11.2	7.8	-	14.7	8.4	5.3	-	11.5
Region 7	14.2	10.0	-	18.4	7.4	4.9	-	9.8	2.4	1.1	-	3.8	14.8	9.4	-	20.2	7.9	4.4	-	11.3
Region 8	17.7	14.4	-	20.9	6.5	4.8	-	8.3	3.4	2.2	-	4.6	13.6	10.8	-	16.4	9.9	7.5	-	12.2
Region 9	18.6	15.1	-	22.1	8.7	6.5	-	10.8	3.9	2.4	-	5.3	15.7	12.4	-	19.0	11.5	8.6	-	14.5
Region 10	17.1	13.6	-	20.6	7.7	5.5	-	9.8	3.0	1.7	-	4.2	16.9	13.1	-	20.7	11.7	8.2	-	15.2
Region 11	26.5	21.1	-	32.0	12.0	9.0	-	15.1	3.8	2.3	-	5.3	17.9	13.1	-	22.8	11.7	8.0	-	15.3
Region 12	20.6	17.1	-	24.1	10.2	7.5	-	12.8	3.6	2.1	-	5.0	12.7	9.8	-	15.7	9.4	6.8	-	11.9
Region 13	22.5	18.5	-	26.5	12.0	9.2	-	14.8	3.6	2.1	-	5.1	14.1	10.6	-	17.6	11.5	8.3	-	14.8
Region 14	25.1	20.6	-	29.6	12.4	9.1	-	15.7	4.8	2.9	-	6.7	18.0	13.1	-	22.9	13.9	9.4	-	18.4

<sup>1</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

Region 1	Defiance, Fulton, Henry, Lucas, Paulding, Williams, Wood
Region 2	Allen, Auglaize, Hancock, Hardin, Mercer, Putnam, Van Wert
Region 3	Crawford, Erie, Huron, Ottawa, Richland, Sandusky, Seneca, Wyandot
Region 4	Cuyahoga, Geauga, Lake, Lorain
Region 5	Ashland, Holmes, Medina, Stark, Summit, Wayne
Region 6	Ashtabula, Columbiana, Mahoning, Portage, Trumbull
Region 7	Delaware, Knox, Marion, Morrow, Union
Region 8	Fairfield, Franklin, Licking, Madison, Pickaway
Region 9	Champaign, Clark, Darke, Greene, Logan, Miami, Montgomery, Preble, Shelby
Region 10	Butler, Clermont, Clinton, Hamilton, Warren
Region 11	Adams, Brown, Fayette, Highland, Pike, Ross, Scioto
Region 12	Coshocton, Guernsey, Morgan, Muskingam, Noble, Perry, Tuscarawas
Region 13	Belmont, Carroll, Harrison, Jefferson, Monroe, Washington
Region 14	Athens, Gallia, Hocking, Jackson, Lawrence, Meigs, Vinton

## Appendix B—Ohio Regional BRFSS Data

**Table A1. Disease Prevalence and Health Behaviors by Region/County, Ohio, 2014 (continued)**

	Ever Told Other Cancer				Ever Told Skin Cancer				Ever Told Arthritis				Ever Told Kidney Disease				Ever Told Diabetes			
	%	95% CI			%	95% CI			%	95% CI			%	95% CI			%	95% CI		
Region 1	7.3	4.8	-	9.7	6.6	4.3	-	8.8	32.7	28.2	-	37.2	3.1	NA <sup>1</sup>	-	NA <sup>1</sup>	13.2	10.2	-	16.1
Region 2	5.2	3.4	-	7.0	5.3	3.5	-	7.0	30.5	25.8	-	35.1	2.6	NA <sup>1</sup>	-	NA <sup>1</sup>	10.7	8.0	-	13.5
Region 3	7.1	5.0	-	9.2	6.1	4.1	-	8.0	35.6	30.6	-	40.5	2.4	NA <sup>1</sup>	-	NA <sup>1</sup>	9.5	7.2	-	11.9
Region 4	5.8	4.2	-	7.5	5.9	4.0	-	7.7	33.0	28.9	-	37.2	3.4	2.0	-	4.8	11.8	9.2	-	14.4
Region 5	7.0	4.8	-	9.2	6.1	4.3	-	8.0	30.1	25.8	-	34.4	2.2	1.1	-	3.3	11.0	8.2	-	13.7
Region 6	6.6	4.5	-	8.8	5.2	3.3	-	7.1	31.4	26.9	-	35.9	2.3	1.1	-	3.5	9.9	7.5	-	12.4
Region 7	6.8	4.6	-	9.1	8.4	5.8	-	11.0	26.7	22.3	-	31.2	2.3	NA <sup>1</sup>	-	NA <sup>1</sup>	10.9	7.8	-	13.9
Region 8	7.4	5.5	-	9.2	6.9	5.1	-	8.6	26.2	22.9	-	29.5	3.1	1.8	-	4.3	13.0	10.4	-	15.6
Region 9	6.0	4.1	-	7.9	7.0	5.2	-	8.8	34.4	30.3	-	38.6	3.4	2.0	-	4.8	13.9	10.9	-	16.9
Region 10	4.8	3.5	-	6.1	6.0	4.3	-	7.6	31.8	27.7	-	35.9	3.2	2.0	-	4.4	11.1	8.7	-	13.5
Region 11	6.9	4.9	-	9.0	6.0	3.9	-	8.0	36.8	31.1	-	42.4	5.8	3.5	-	8.0	13.4	10.1	-	16.8
Region 12	7.5	5.5	-	9.5	6.4	4.6	-	8.2	38.2	33.9	-	42.5	3.1	1.8	-	4.4	14.9	11.7	-	18.1
Region 13	11.2	8.2	-	14.2	5.7	3.6	-	7.8	35.9	31.5	-	40.4	2.4	1.1	-	3.6	13.7	10.8	-	16.5
Region 14	7.4	4.7	-	10.2	6.5	4.5	-	8.5	37.0	31.9	-	42.2	3.7	2.0	-	5.3	15.2	12.1	-	18.4

<sup>1</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

Region 1	Defiance, Fulton, Henry, Lucas, Paulding, Williams, Wood
Region 2	Allen, Auglaize, Hancock, Hardin, Mercer, Putnam, Van Wert
Region 3	Crawford, Erie, Huron, Ottawa, Richland, Sandusky, Seneca, Wyandot
Region 4	Cuyahoga, Geauga, Lake, Lorain
Region 5	Ashland, Holmes, Medina, Stark, Summit, Wayne
Region 6	Ashtabula, Columbiana, Mahoning, Portage, Trumbull
Region 7	Delaware, Knox, Marion, Morrow, Union
Region 8	Fairfield, Franklin, Licking, Madison, Pickaway
Region 9	Champaign, Clark, Darke, Greene, Logan, Miami, Montgomery, Preble, Shelby
Region 10	Butler, Clermont, Clinton, Hamilton, Warren
Region 11	Adams, Brown, Fayette, Highland, Pike, Ross, Scioto
Region 12	Coshocton, Guernsey, Morgan, Muskingam, Noble, Perry, Tuscarawas
Region 13	Belmont, Carroll, Harrison, Jefferson, Monroe, Washington
Region 14	Athens, Gallia, Hocking, Jackson, Lawrence, Meigs, Vinton

## Appendix B—Ohio Regional BRFSS Data

**Table A1. Disease Prevalence and Health Behaviors by Region/County, Ohio, 2014 (continued)**

	Ever Told Prediabetes			Ever Told Chronic Obstructive Pulmonary Disorder			Ever Told Depression			Current Smoker			Binge Drinking		
	%	95% CI		%	95% CI		%	95% CI		%	95% CI		%	95% CI	
Region 1	9.9	7.0	- 12.9	10.2	7.4	- 13.1	24.5	20.1	- 28.9	20.3	15.6	- 25.0	16.3	12.3	- 20.4
Region 2	8.6	6.1	- 11.1	8.5	5.7	- 11.2	16.5	12.4	- 20.5	25.4	19.8	- 30.9	16.4	11.9	- 21.0
Region 3	8.7	5.9	- 11.6	7.1	4.6	- 9.6	21.7	17.0	- 26.3	19.1	14.6	- 23.7	15.5	10.9	- 20.2
Region 4	6.5	4.2	- 8.8	8.9	6.4	- 11.3	20.6	16.5	- 24.8	18.6	14.7	- 22.6	21.5	17.4	- 25.7
Region 5	8.6	5.6	- 11.5	7.4	5.0	- 9.9	17.0	13.2	- 20.8	20.1	15.8	- 24.4	16.8	12.8	- 20.9
Region 6	7.8	5.0	- 10.6	8.0	5.8	- 10.2	14.7	11.4	- 18.0	23.1	18.1	- 28.0	15.9	11.4	- 20.3
Region 7	4.4	2.6	- 6.3	4.2	2.6	- 5.9	18.7	14.1	- 23.2	15.3	11.1	- 19.5	12.2	8.5	- 15.9
Region 8	6.5	4.6	- 8.4	6.6	4.7	- 8.4	18.7	15.5	- 21.8	20.2	16.4	- 23.9	18.5	14.9	- 22.1
Region 9	7.8	5.5	- 10.2	8.6	6.1	- 11.0	27.2	22.8	- 31.5	22.8	18.6	- 27.1	16.8	12.8	- 20.8
Region 10	9.1	6.5	- 11.8	8.7	6.0	- 11.4	24.8	20.5	- 29.0	21.9	17.5	- 26.4	19.5	15.2	- 23.9
Region 11	9.1	4.9	- 13.4	12.3	8.8	- 15.7	23.3	18.3	- 28.4	27.4	21.6	- 33.3	13.5	8.6	- 18.4
Region 12	5.5	3.7	- 7.4	13.1	10.1	- 16.1	22.1	18.2	- 25.9	21.7	17.7	- 25.6	16.9	13.1	- 20.7
Region 13	8.3	5.6	- 11.0	12.4	9.4	- 15.4	21.0	17.3	- 24.8	23.8	19.4	- 28.3	17.9	13.4	- 22.3
Region 14	7.2	4.4	- 9.9	13.3	10.0	- 16.6	26.2	20.9	- 31.4	30.2	24.4	- 36.0	15.6	10.8	- 20.3

<sup>1</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

Region 1	Defiance, Fulton, Henry, Lucas, Paulding, Williams, Wood
Region 2	Allen, Auglaize, Hancock, Hardin, Mercer, Putnam, Van Wert
Region 3	Crawford, Erie, Huron, Ottawa, Richland, Sandusky, Seneca, Wyandot
Region 4	Cuyahoga, Geauga, Lake, Lorain
Region 5	Ashland, Holmes, Medina, Stark, Summit, Wayne
Region 6	Ashtabula, Columbiana, Mahoning, Portage, Trumbull
Region 7	Delaware, Knox, Marion, Morrow, Union
Region 8	Fairfield, Franklin, Licking, Madison, Pickaway
Region 9	Champaign, Clark, Darke, Greene, Logan, Miami, Montgomery, Preble, Shelby
Region 10	Butler, Clermont, Clinton, Hamilton, Warren
Region 11	Adams, Brown, Fayette, Highland, Pike, Ross, Scioto
Region 12	Coshocton, Guernsey, Morgan, Muskingam, Noble, Perry, Tuscarawas
Region 13	Belmont, Carroll, Harrison, Jefferson, Monroe, Washington
Region 14	Athens, Gallia, Hocking, Jackson, Lawrence, Meigs, Vinton

## Appendix B—Ohio Regional BRFSS Data

**Table A1. Disease Prevalence and Health Behaviors by Region/County, Ohio, 2014 (continued)**

	Seat Belt Use (Always or Nearly Always)				Any Physical Activity (Past 30 Days)				Obesity				Disability/Activity Limitation				Access to Dental Care (Past Year)			
	%	95% CI			%	95% CI			%	95% CI			%	95% CI			%	95% CI		
Region 1	88.4	84.4	-	92.5	71.0	66.4	-	75.6	37.0	32.0	-	41.9	25.4	21.0	-	29.7	65.2	60.2	-	70.1
Region 2	85.2	80.6	-	89.9	72.4	67.5	-	77.3	35.8	30.4	-	41.2	18.5	14.4	-	22.5	65.3	59.7	-	71.0
Region 3	89.0	85.0	-	93.0	74.3	69.6	-	79.0	34.6	29.4	-	39.9	22.1	17.5	-	26.7	63.1	57.7	-	68.5
Region 4	90.4	87.5	-	93.3	75.0	70.8	-	79.3	30.4	26.1	-	34.6	24.4	20.3	-	28.5	69.3	64.9	-	73.6
Region 5	94.4	92.2	-	96.6	76.2	72.0	-	80.4	33.2	28.1	-	38.2	18.9	15.1	-	22.8	62.7	57.6	-	67.7
Region 6	87.7	84.1	-	91.4	74.5	69.9	-	79.2	29.0	24.3	-	33.6	19.9	16.0	-	23.8	62.3	56.9	-	67.7
Region 7	87.7	82.8	-	92.6	76.3	71.3	-	81.2	30.0	24.7	-	35.3	19.1	14.7	-	23.4	72.0	66.1	-	78.0
Region 8	92.8	90.4	-	95.2	77.3	73.6	-	81.0	33.0	28.9	-	37.1	23.9	20.4	-	27.4	70.0	66.0	-	74.1
Region 9	91.4	88.6	-	94.1	76.5	72.7	-	80.4	36.8	32.2	-	41.4	24.1	20.1	-	28.1	60.0	55.3	-	64.7
Region 10	92.1	89.2	-	95.0	75.7	71.8	-	79.7	34.3	29.7	-	38.8	23.9	19.9	-	27.9	70.2	65.9	-	74.6
Region 11	91.7	88.3	-	95.1	69.1	63.4	-	74.9	41.7	35.2	-	48.1	27.2	22.3	-	32.1	56.3	50.0	-	62.5
Region 12	86.1	82.5	-	89.7	70.7	66.6	-	74.8	35.0	30.6	-	39.4	25.4	21.5	-	29.3	57.0	52.4	-	61.6
Region 13	90.6	87.4	-	93.7	70.8	66.6	-	75.0	35.1	30.4	-	39.9	24.9	21.0	-	28.9	61.4	56.6	-	66.2
Region 14	91.0	87.8	-	94.2	69.2	64.1	-	74.3	33.4	28.2	-	38.5	29.4	24.6	-	34.2	52.3	46.6	-	58.0

<sup>1</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

Region 1	Defiance, Fulton, Henry, Lucas, Paulding, Williams, Wood
Region 2	Allen, Auglaize, Hancock, Hardin, Mercer, Putnam, Van Wert
Region 3	Crawford, Erie, Huron, Ottawa, Richland, Sandusky, Seneca, Wyandot
Region 4	Cuyahoga, Geauga, Lake, Lorain
Region 5	Ashland, Holmes, Medina, Stark, Summit, Wayne
Region 6	Ashtabula, Columbiana, Mahoning, Portage, Trumbull
Region 7	Delaware, Knox, Marion, Morrow, Union
Region 8	Fairfield, Franklin, Licking, Madison, Pickaway
Region 9	Champaign, Clark, Darke, Greene, Logan, Miami, Montgomery, Preble, Shelby
Region 10	Butler, Clermont, Clinton, Hamilton, Warren
Region 11	Adams, Brown, Fayette, Highland, Pike, Ross, Scioto
Region 12	Coshocton, Guernsey, Morgan, Muskingam, Noble, Perry, Tuscarawas
Region 13	Belmont, Carroll, Harrison, Jefferson, Monroe, Washington
Region 14	Athens, Gallia, Hocking, Jackson, Lawrence, Meigs, Vinton

## Appendix B—Ohio Regional BRFSS Data

**Table A1. Disease Prevalence and Health Behaviors by Region/County, Ohio, 2014 (continued)**

	Access To Healthcare Coverage				Mammogram Testing (Last 2 Years, Women 50+)				Pap Testing (Last 3 Years, Women 18+)				Met Colorectal Cancer Screening Recommendations (Ages 50-75)				Ever Tested HIV			
	%	95% CI			%	95% CI			%	95% CI			%	95% CI			%	95% CI		
Region 1	90.9	87.3	-	94.5	75.6	70.0	-	81.2	77.0	70.4	-	83.6	62.8	56.9	-	68.7	37.8	32.4	-	43.2
Region 2	91.3	87.5	-	95.0	69.6	62.3	-	76.9	59.4	49.8	-	68.9	63.9	57.4	-	70.4	20.9	16.2	-	25.6
Region 3	92.0	88.4	-	95.6	75.0	68.9	-	81.1	71.2	63.6	-	78.7	56.8	49.9	-	63.7	22.1	17.1	-	27.2
Region 4	90.4	87.2	-	93.6	74.4	68.5	-	80.3	73.1	67.0	-	79.1	65.9	60.1	-	71.6	34.4	29.6	-	39.3
Region 5	88.6	84.8	-	92.4	71.8	65.3	-	78.3	67.4	59.4	-	75.3	65.2	58.6	-	71.8	22.6	18.0	-	27.2
Region 6	90.5	86.6	-	94.3	65.7	59.3	-	72.1	73.2	65.7	-	80.8	60.5	54.2	-	66.7	21.6	16.5	-	26.8
Region 7	91.6	86.8	-	96.3	77.8	71.6	-	83.9	80.8	72.8	-	88.9	71.2	64.0	-	78.5	26.3	20.7	-	32.0
Region 8	91.7	88.9	-	94.4	76.5	70.5	-	82.5	73.9	67.4	-	80.4	66.5	60.8	-	72.2	33.3	29.0	-	37.5
Region 9	89.4	86.1	-	92.7	74.3	67.9	-	80.6	79.0	73.1	-	84.8	67.8	61.7	-	74.0	28.2	23.7	-	32.6
Region 10	87.8	84.0	-	91.5	74.1	68.0	-	80.2	78.3	72.5	-	84.1	67.1	61.5	-	72.7	35.4	30.5	-	40.3
Region 11	87.2	82.5	-	92.0	74.1	67.6	-	80.6	64.7	54.4	-	75.0	57.3	50.2	-	64.4	27.6	21.3	-	33.9
Region 12	87.2	83.4	-	91.0	72.8	67.0	-	78.7	72.4	65.6	-	79.1	62.6	56.7	-	68.4	21.4	17.3	-	25.5
Region 13	92.9	90.3	-	95.5	78.4	73.2	-	83.6	75.9	68.3	-	83.4	64.5	58.6	-	70.3	21.5	17.0	-	26.0
Region 14	87.2	82.7	-	91.8	69.7	62.8	-	76.7	68.4	59.8	-	77.1	65.7	59.6	-	71.8	30.0	24.4	-	35.7

<sup>1</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

Region 1	Defiance, Fulton, Henry, Lucas, Paulding, Williams, Wood
Region 2	Allen, Auglaize, Hancock, Hardin, Mercer, Putnam, Van Wert
Region 3	Crawford, Erie, Huron, Ottawa, Richland, Sandusky, Seneca, Wyandot
Region 4	Cuyahoga, Geauga, Lake, Lorain
Region 5	Ashland, Holmes, Medina, Stark, Summit, Wayne
Region 6	Ashtabula, Columbiana, Mahoning, Portage, Trumbull
Region 7	Delaware, Knox, Marion, Morrow, Union
Region 8	Fairfield, Franklin, Licking, Madison, Pickaway
Region 9	Champaign, Clark, Darke, Greene, Logan, Miami, Montgomery, Preble, Shelby
Region 10	Butler, Clermont, Clinton, Hamilton, Warren
Region 11	Adams, Brown, Fayette, Highland, Pike, Ross, Scioto
Region 12	Coshocton, Guernsey, Morgan, Muskingam, Noble, Perry, Tuscarawas
Region 13	Belmont, Carroll, Harrison, Jefferson, Monroe, Washington
Region 14	Athens, Gallia, Hocking, Jackson, Lawrence, Meigs, Vinton

## Appendix B—Ohio Regional BRFSS Data

**Table A1. Disease Prevalence and Health Behaviors by Region/County, Ohio, 2014 (continued)**

	Flu Shot (Past Year)			
	%	95% CI		
Region 1	38.5	33.7	-	43.2
Region 2	33.5	28.6	-	38.4
Region 3	31.7	27.1	-	36.3
Region 4	38.1	33.7	-	42.5
Region 5	36.2	31.3	-	41.1
Region 6	34.4	29.5	-	39.4
Region 7	39.7	34.0	-	45.4
Region 8	42.1	37.9	-	46.2
Region 9	37.7	33.3	-	42.0
Region 10	40.5	36.0	-	45.1
Region 11	40.7	34.6	-	46.8
Region 12	34.0	29.9	-	38.0
Region 13	41.1	36.5	-	46.2
Region 14	36.5	31.2	-	41.8

<sup>1</sup>Estimate does not meet the reliability criteria for reporting set by the CDC.

Region 1 Defiance, Fulton, Henry, Lucas, Paulding, Williams, Wood

Region 2 Allen, Auglaize, Hancock, Hardin, Mercer, Putnam, Van Wert

Region 3 Crawford, Erie, Huron, Ottawa, Richland, Sandusky, Seneca, Wyandot

Region 4 Cuyahoga, Geauga, Lake, Lorain

Region 5 Ashland, Holmes, Medina, Stark, Summit, Wayne

Region 6 Ashtabula, Columbiana, Mahoning, Portage, Trumbull

Region 7 Delaware, Knox, Marion, Morrow, Union

Region 8 Fairfield, Franklin, Licking, Madison, Pickaway

Region 9 Champaign, Clark, Darke, Greene, Logan, Miami, Montgomery, Preble, Shelby

Region 10 Butler, Clermont, Clinton, Hamilton, Warren

Region 11 Adams, Brown, Fayette, Highland, Pike, Ross, Scioto

Region 12 Coshocton, Guernsey, Morgan, Muskingam, Noble, Perry, Tuscarawas

Region 13 Belmont, Carroll, Harrison, Jefferson, Monroe, Washington

Region 14 Athens, Gallia, Hocking, Jackson, Lawrence, Meigs, Vinton

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The Ohio Behavioral Risk Factor Surveillance System is supported by the Centers for Disease Control and Prevention (CDC), Behavioral Risk Factor Surveillance System, cooperative agreement #3U58O000039-03S2. This award was funded by the National Center for Chronic Disease Prevention and Health Promotion and National Center for Environmental Health. The contents of this report are solely the responsibility of the authors and do not necessarily represent the official views of the CDC or the Department of Health and Human Services.

Suggested Citation:

*Ohio 2014 BRFSS Annual Report*. Chronic Disease Epidemiology and Evaluation Section, Bureau of Health Promotion, Ohio Department of Health, 2016.