

COMMUNITY HEALTH NEEDS ASSESSMENT
2013

ST. JOSEPH MEDICAL CENTER
McLean County

Prepared by: Dr. Laurence G. Weinzimmer and Professor Eric Michel

St. Joseph Medical Center Community Health-Needs Assessment

TABLE OF CONTENTS

EXECUTIVE SUMMARY	10
I. INTRODUCTION	14
II METHODS	19
III. PHASE 1 – COMMUNITY ASSESSMENT	24
Chapter 1. Demographic Profile	25
1.1 Population	25
1.2 Age Distribution	29
1.3 Household/Family.....	35
1.4 Economic Information	39
1.5 Education	42
1.6 People with Disabilities	46
Demographic Profile: Strategic Implications	48
Chapter 2. Prevention	51
2.1 Accessibility	51
2.2 Wellness.....	58
Prevention: Strategic Implications.....	75
Chapter 3. Symptoms/Predictors	77
3.1 Tobacco Use	77
3.2 Drug and Alcohol Abuse	81
3.3 Overweight and Obesity	83
Symptoms/Predictors: Strategic Implications.....	86
Chapter 4. Diseases/Morbidity	89
4.1 Age Related	89
4.2 Cardiovascular	91
4.3 Respiratory.....	104
4.4 Cancer	108
4.5 Type 2 Diabetes	119
4.6 Infectious Diseases	121
4.7 Secondary Diagnoses.....	124
4.8 Injuries	127
Diseases/Morbidity: Strategic Implications.....	129
Chapter 5. Mortality	131
5.1 Leading Causes of Death.....	131
Mortality: Strategic Implications.....	132

St. Joseph Medical Center Community Health-Needs Assessment

IV. PHASE 2 – PRIMARY DATA RESEARCH FOR COMMUNITY HEALTH NEEDS	134
Chapter 6. General Characteristics of Respondents	135
6.1 Age	135
6.2 Race and Ethnicity	136
6.3 Educational Attainment	137
6.4 Income Distribution	138
6.5 Living Arrangements	139
6.6 Household Composition	140
6.7 Employment Status	140
6.8 Gender	141
Chapter 7. Findings and Results Community Perceptions	142
7.1 Health Problems in the Community	142
7.2 Unhealthy Behaviors	147
7.3 Issues with Quality of Life	151
Community Perceptions: Strategic Implications	154
Chapter 8. Accessibility to Health Care	155
8.1 Choice of Medical Care	155
8.2 Frequency of Checkups	158
8.3 Access to Medical Care	161
8.4 Access to Prescription Drugs	165
8.5 Access to Dental Care	169
8.6 Access to Counseling	175
8.7 Access to Information	179
8.8 Personal Physician	180
8.9 Type of Insurance	182
Access to Health Care: Strategic Implications	183
Chapter 9. Health-Related Behaviors	184
9.1 Physical Exercise	184
9.2 Healthy Eating	185
9.3 Smoking	186
9.4 Overall Health	188
Healthy Behaviors: Strategic Implications	190
V. PHASE 3 – PRIORITIZATION OF HEALTH-RELATED ISSUES	191
Chapter 10. Prioritization of Health-Related Issues	191
10.1 Summary of Community Health Issues	191
10.2 Community Resources	192
10.3 Priority of Community Health-Related Issues	199
VI. APPENDIX	203

St. Joseph Medical Center Community Health-Needs Assessment

LIST OF EXHIBITS

- Figure 1. Community Needs Assessment Framework
- Table 1.1.1-1 Population of McLean County, 2000 and 2010
- Table 1.1.1-2 Population of Municipalities in McLean County, 2000 and 2010
- Table 1.1.2-1 Population Growth and Projections for McLean County
- Table 1.1.2-2 Gross Actual and Projected Population Gains for McLean County
- Table 1.1.2-3 2000-2010 Population Growth Rate for Municipalities in McLean County
- Table 1.2-1 Age Distribution of McLean County Residents, 2010 vs. 2007
- Table 1.2-2 Median Age of Residents in McLean County, 2010 vs. 2007
- Table 1.2-6 Population of McLean County Under 18 Years of Age, 2010 vs. 2007
- Table 1.2-7 Population of McLean County 62 Years of Age and Over, 2010 vs. 2007
- Table 1.2.2-1 Gender Distribution of McLean County Residents, 2010 vs. 2007
- Table 1.2.3-1 Racial Distribution of McLean County Residents, 2010 vs. 2007
- Table 1.3-1 Number of Family Households in McLean County, 2007-2010
- Table 1.3.1-1 Family Composition in McLean County, 2010 vs. 2007
- Table 1.3.3-1 Marital Status of McLean County Residents, 2007 vs. 2010
- Table 1.3.4-1 Births to Teenage Mothers in McLean County vs. State of Illinois, 2009 vs. 2006
- Table 1.4.1-1 Median Household Income for McLean County, 2007 vs. 2010
- Table 1.4.2-1 Average Annual Unemployment Rate for McLean County Region, 2007-2011
- Table 1.4.3-1 Percentage of Families Living in Poverty in McLean County, 2010 vs. 2007
- Table 1.5.1-1 Grade 3 Student Achievement in McLean County 2012
- Table 1.5.1-2 Grade 8 Student Achievement in McLean County 2012
- Table 1.5.2-1 Truancy in School Districts of McLean County in 2012
- Table 1.5.3-1 High School Graduation Rates in McLean County, 2009 vs. 2012
- Table 1.6.1-1 Percentage of McLean County Respondents with Days of Physical Health Rated "Not Good" Per Month, 2004-2006 vs. 2007-2009
- Table 1.6.1-2 Percentage of McLean County Region Respondents with Days of Mental Health Rated "Not Good" Per Month, 2004-2006 vs. 2007-2009
- Table 2.1.1-1 Percentage of McLean County Respondents with Health Care Coverage, 2004-2006 vs. 2007-2009
- Table 2.1.1-2 Percentage of McLean County Respondents with Dental Insurance, 2004-2006 vs. 2007-2009
- Table 2.1.1-3 Percentage of McLean County Respondents with Medicare Coverage, 2007-2009
- Table 2.1.2-1 Patients from McLean County Area Making ER Visits to Bloomington-Area Hospitals for Cardiovascular and Respiratory by Age, 2009-2012
- Table 2.1.2-1 Patients from McLean County Area Making ER Visits to Bloomington-Area Hospitals for Various Conditions by Age, 2009-2012
- Table 2.1.2-3 Percentage of McLean County Respondents with a Usual Health Care Provider, 2004-2006 vs. 2007-2009
- Table 2.1.2-4 Percentage of McLean County Respondents who have not Visited a Dentist in 2+ Years, 2004-2006 vs. 2007-2009
- Table 2.2.1-1 Prevalence of Last Routine Checkup by McLean County Residents, 2007-2009
- Table 2.2.2-1 Percentage of McLean County Region Residents with High Cholesterol
- Table 2.2.2-2 Time Since Last Cholesterol Screening by McLean County Residents
- Table 2.2.2-3 Percentage of McLean County Residents with High Blood Pressure

St. Joseph Medical Center Community Health-Needs Assessment

- Table 2.2.2-4 Percentage of McLean County Region Residents Over the Age of 40 Who Have Ever Had a Mammogram
- Table 2.2.2-5 Time Since Last Mammogram by McLean County Region Residents
- Table 2.2.2-6 Percentage of McLean County Residents Who Have Ever Had Pap Smear
- Table 2.2.2-7 Time Since Last Pap Smear by McLean County Residents
- Table 2.2.3-1 Percentage of McLean County Residents Who Obtained A Flu Shot
- Table 2.2.3-2 Percentage of McLean County Residents Who Obtained A Pneumonia Shot
- Table 2.2.4-1 Adherence to Regular and Sustained Physical Activity Guidelines by McLean County Residents
- Table 2.2.4-2 Physical Activity from Work-related Exertion by McLean County Residents
- Table 2.2.4-3 Regular Exercise and Intent to Exercise by McLean County Residents
- Table 2.2.4-4 Percentage of McLean County Residents Who Meet Moderate Activity Standard (5x per week for 30 minutes per day)
- Table 2.2.4-5 Percentage of McLean County Residents Who Meet Vigorous Activity Standard (3x per week for 20 minutes per day)
- Table 2.2.4-6 Total Servings of Fruits/Vegetables Consumed by McLean County Residents
- Table 2.2.5-1 Time Since Last Teeth Cleaning by McLean County Region Residents
- Table 3.1-1 Smoking Status of Residents in McLean County
- Table 3.1-2 Reported Age that McLean County Residents Began Smoking Regularly
- Table 3.1-3 Rules for Smoking in the Home by McLean County Residents
- Table 3.1-4 McLean County Resident Options Regarding Smoking in Restaurants
- Table 3.2-1 Percent of McLean County Residents at Risk for Acute/Binge Drinking
- Table 3.2-2 Reported Substance Abuse Usage of McLean County 8th Graders, 2008
- Table 3.2-3 Reported Substance Abuse Usage of McLean County 12th Graders, 2008
- Table 3.3-1 Percentage of People Diagnosed with Overweight or Obesity in McLean County and Illinois
- Table 3.3-2 Percent of McLean County Residents Advised About Weight
- Table 3.3-3 Percent of McLean County Residents Now Trying to Lose Weight
- Table 3.3-4 Percent of McLean County Residents Now Trying to Maintain Current Weight
- Table 4.1.1-1 Percentage of Babies Born Preterm or with Low Birth Weight in McLean County, 2009
- Table 4.1.1-1 Percentage of Babies Born Preterm or with Low Birth Weight in McLean County, 2009
- Table 4.1.2-1 Percentage of Babies Born with Adequate or Better Prenatal Care based on Kotelchuck Index Scores in McLean County, 2009
- Table 4.2.1-1 Inpatient Hypertension Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012
- Table 4.2.2-1 Inpatient Chest Pain - Noncardiac Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012
- Table 4.2.2-2 Inpatient Carditis Cases Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012
- Table 4.2.2-3 Inpatient Arterial Embolism Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012
- Table 4.2.2-4 Inpatient Coronary Atherosclerosis Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

St. Joseph Medical Center Community Health-Needs Assessment

Table 4.2.2-5 Inpatient Disease of Venous System Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.2.2-6 Inpatient Dysrhythmia & Cardiac Arrest Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.2.2-7 Inpatient Heart Failure Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.2.2-8 Inpatient Heart Valve Disease Cases Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.2.2-9 Inpatient Myocardial Infarction Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.2.2-10 Inpatient Other Cardiovascular Disease Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.2.2-11 Inpatient Vascular Disease Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.2.3-1 Inpatient Brain Tumor and Stroke Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.3.1-1 Inpatient Asthma Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.3.1-2 Percent of McLean County Residents who have Asthma

Table 4.3.2-1 Inpatient Pneumonia Including Aspiration Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.3.3-1 Inpatient Chronic Obstructive Pulmonary Cases Disease Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.4-1 Five-Year Average Incidence Counts of Selected Cancers in McLean County by Gender, 1990-2009

Table 4.4-2 Top 6 Cancers by Treatment

Table 4.4-3 Cancer by Gender

Table 4.4-3 Cancer by Gender

Table 4.4.1-1 Inpatient Breast Cancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.4.1-2 Inpatient Lung Cancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.4.1-3 Inpatient Pancreas Cancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.4.1-4 Inpatient Colorectal Cancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.4.1-5 Inpatient Cervical & Other Female Genital Cancer Including Precancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.4.2-1 Inpatient Leukemia Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.5-1 Inpatient Type II Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.5-2 Inpatient Type I Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

Table 4.5-3 Percent of McLean County Residents who have Diabetes

Table 4.6.1-1 Chlamydia Rates per 100,000 Population, 2006-2009

St. Joseph Medical Center Community Health-Needs Assessment

- Table 4.6.1-2 Gonorrhea Rates per 100,000 Population, 2006-2009
- Table 4.6.1-3 Inpatient Sexual Infections Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012
- Table 4.6.2-1 Inpatient Hepatitis C Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012
- Table 4.7.1-1 Number of Cases of Top 20 Secondary Diagnoses at McLean Area Hospitals, Inpatient Only, 2012
- Table 4.7.1-1 Number of Cases of Top 20 Secondary Diagnoses at McLean Area Hospitals, Inpatient Only, 2012
- Table 4.8.1-1 Percentage of Deaths Attributed to Suicide in McLean County, 2009
- Table 4.8.2-1. Three-year Growth Rates for Motor Vehicle Collision Incidents within the McLean County Region, 2009 vs. 2006
- Table 5.1-1. Top 5 Leading Causes of Death for all Races by County, 2009
- Table 6.1 Age Distribution for McLean County and Deep Poverty
- Table 6.2 Race/Ethnicity Distribution for McLean County and Deep Poverty
- Table 6.3 Highest Educational Attainment for McLean County and Deep Poverty
- Table 6.4 Income Distribution for McLean County
- Table 6.5 Living Arrangement Distribution for McLean County and Deep Poverty
- Table 6.6 Household Composition for McLean County and Deep Poverty
- Table 6.8 Gender Composition for McLean County and Deep Poverty
- Table 7.1.1 McLean County Frequencies for Most Important Perceived Health Problems in the Community
- Table 7.1.2 Frequencies for Most Important Perceived Health Problems in the Community from Individuals Living in Poverty
- Table 7.1.3 Significant Correlations among Most Important Perceived Health Problems in the Community and Demographic Variables
- Table 7.2.1 McLean County Frequencies for Most Important Perceived Unhealthy Behaviors in the Community
- Table 7.2.2 Frequencies for Most Important Perceived Unhealthy Behaviors in the Community from Individuals Living in Poverty
- Table 7.2.3 Significant Correlations among Most Important Perceived Unhealthy Behaviors in the Community and Demographic Variables
- Table 7.3.1 McLean County Frequencies for Most Important Perceived Factors that Impact Quality of Life
- Table 7.3.2 Frequencies for Most Important Perceived Factors that Impact Quality of Life from Individuals Living in Poverty
- Table 7.3.3 Significant Correlations among Most Important Perceived Factors that Impact Quality of Life and Demographic Variables
- Table 8.1.1 McLean County Frequencies for Choice of Medical Care
- Table 8.1.2 Frequencies for Choice of Medical Care from Individuals Living in Poverty
- Table 8.1.3 Significant Correlations among Choice of Health Care and Demographic Variables
- Table 8.2.1 McLean County Frequencies for Time Since Last Checkup
- Table 8.2.2 Frequencies for Time Since Last Checkup from Individuals Living in Poverty
- Table 8.2.3 Significant Correlations for Time Since Last Checkup

St. Joseph Medical Center Community Health-Needs Assessment

Table 8.3.1	Frequencies for “Was there a time when you needed medical care but were not able to get it?” for McLean County and Individuals Living in Poverty
Table 8.3.2	Significant Correlations for “Was there a time when you needed medical care but were not able to get it?”
Table 8.3.3.1	Frequencies for “Why weren’t you able to get medical care?” for McLean County
Table 8.3.3.2	Significant Correlations for “Was there a time when you needed medical care but were not able to get it?”
Table 8.4.1	Frequencies for “Was there a time when you needed prescription medicine but were not able to get it?” for McLean County and Individuals Living in Poverty
Table 8.4.2	Significant Correlations for “Was there a time in the last year when you needed prescription medication and were unable to get it?”
Table 8.4.3	Frequencies for “Why weren’t you able to get prescription medicine?” for McLean County
Table 8.4.4	Significant Correlations for Reasons Why Individuals Were Not Able to Obtain Prescription Medication in the Past Year
Table 8.5.1	Frequencies for Time Since Last Dental Checkup for McLean County and Individuals Living in Poverty
Table 8.5.2	Significant Correlations for Time Since Last Dental Checkup
Table 8.5.3	Frequencies for “Was there a time when you needed dental care but were not able to get it?” for McLean County and Individuals Living in Poverty
Table 8.5.4	Significant Correlations for “In the last year, was there a time when you needed dental care but could not get it?”
Table 8.5.5	Frequencies for “Why weren’t you able to get dental care?” for McLean County
Table 8.5.6	Significant Correlations for “Why weren’t you able to get dental care?”
Table 8.6.1	Frequencies for “Was there a time when you needed counseling but were not able to get it?” for McLean County and Individuals Living in Poverty
Table 8.6.2	Significant Correlations for “In the last year, was there a time when you needed counseling but could not get it?”
Table 8.6.3	Frequencies for “Why weren’t you able to get counseling?” for McLean County
Table 8.6.4	Significant Correlations for Reasons Why Individuals Were Not Able to Obtain Counseling in the Past Year
Table 8.7.1	Frequencies for “Where do you get most of your medical information?” for McLean County and Individuals Living in Poverty
Table 8.8.1	Frequencies for “Do you have a personal physician?” for McLean County and Individuals Living in Poverty
Table 8.8.2	Significant Correlations among Access to a Personal Physician and Demographic Variables
Table 8.9.1	Frequencies for Insurance Coverage for McLean County and Individuals Living in Poverty
Table 9.1.1	Frequencies for “In the last week, how many times did you exercise?” for McLean County and Individuals Living in Poverty
Table 9.1.2	Significant Correlations among “In the last week, how many times did you exercise?” and Demographic Variables
Table 9.2.1	Frequencies for “On a typical day, how many servings of fruits and/or vegetables do you eat?” for McLean County and Individuals Living in Poverty

St. Joseph Medical Center Community Health-Needs Assessment

Table 9.2.2	Significant Correlations among Number of Servings of Fruits and Vegetables Consumed Daily and Demographic Variables
Table 9.3.1	Frequencies for “On a typical day, how many cigarettes do you smoke?” for McLean County and Individuals Living in Poverty
Table 9.3.2	Significant Correlations among Number of Cigarettes Smoked Daily, and Demographic Variables
Table 9.4.1	Frequencies for “Overall, my physical health is ___” for McLean County and Individuals Living in Poverty
Table 9.4.2	Significant Correlations among Overall Physical Health and Demographic Variables
Table 9.4.3	Frequencies for “Overall, my mental health is ___” for McLean County and Individuals Living in Poverty
Table 9.4.4	Significant Correlations among Overall Mental Health and Demographic Variables
Table 10.2	Relationship between Community Resources and Community Needs
Figure 10.3	Importance/Urgency Matrix for Community Health Needs

EXECUTIVE SUMMARY

The McLean County Community Health-Needs Assessment is a collaborative undertaking by OSF St. Joseph Medical Center to highlight the health needs and well being of residents in McLean County. Through this needs assessment, collaborative community partners have identified numerous health issues impacting individuals and families in the McLean County region. Several themes are prevalent in this health-needs assessment – the demographic composition of the McLean County region, the predictors and prevalence for diseases, leading causes of mortality, accessibility to health services and healthy behaviors.

Results from this study can be used for strategic decision-making purposes as they directly relate to the health needs of the community. The study was designed to assess issues and trends impacting the communities served by hospitals, as well as perceptions of targeted stakeholder groups. Specifically, this assessment provides a detailed analysis of: (1) McLean County area community health needs using secondary data; and (2) an assessment of perceptions and behaviors regarding health-related challenges in the community, including accessibility to needed health care.

PHASE I – USE OF SECONDARY DATA TO IDENTIFY NEEDS

Chapters 1-5 include a detailed analysis of secondary data to assess information regarding the health status of the community. In order to perform these analyses, information was collected from numerous secondary sources, including publically available sources as well as private sources of data. Strategic implications are discussed at the end of each chapter. Specifically, Phase I of the study highlights several critical areas of community needs:

Demographics – With the changing demographics, forecasts indicate increase in chronic conditions such as diabetes, asthma, heart disease, and obesity. Three specific demographic trends in the region will have a significant impact on health issues, including:

Elderly Population – Individuals in McLean County aged 60-64 increased from 3.2% to 4.4% between 2007 and 2010 and individuals aged 65-74 increased from 4.9% to 5.4% between 2007 and 2010.

Poverty – Poverty has a significant impact on the development of children and youth. Poverty rates are significantly higher for single-mother led households compared to married-couple families and all families. However, even given the recession, in McLean County, the percentage of all families, married-couple families, and female-householder families living in poverty decreased between 2007 and 2010.

Accessibility to Health Care – The lack of insurance coverage is more prevalent among socioeconomically disadvantaged groups that are often at high risk for disease and illness. Thus, a vicious cycle results where individuals who are at the highest risk for diseases are unable to receive screenings, thus perpetuating a cycle of disease. This is compounded by unhealthy lifestyles.

Obesity – Research strongly suggests that obesity is a significant problem facing youth and adults nationally, in Illinois, and within the McLean County region. In terms of obesity, the

St. Joseph Medical Center Community Health-Needs Assessment

McLean County area as a whole is higher than the state average and growing rapidly. There was a 13% increase in the growth of McLean County residents reporting they were overweight between 2006 (35.0%) and 2009 (39.5%). Considering that Illinois has the 6th highest obesity rate in the U.S., this is an important issue.

Risky Behavior – Risky behaviors are defined as activities that include addiction, chemical dependency and risky sexual behaviors. Note that youth substance usage in McLean County exceeds the State of Illinois averages for 12th graders in terms of alcohol usage.

Mental Health -- Approximately 23% of residents in McLean County reported they had experienced 1-7 days with poor mental health per month between 2007 and 2009. Approximately 11% of residents in McLean County reported they had experienced 8-30 days with poor mental health per month between 2007 and 2009. For both segments of residents (those experiencing 1-7 days and 8-30 days with poor mental health per month), each was below the state average for the same time frame.

Women's Health – While the percentage of women who report the time since their last mammogram was more than one year ago is lower in McLean County than in the State of Illinois (McLean: 28.5% vs. Illinois: 43.6%), growth rates for this category are dramatically higher in McLean County (135% growth between 2006 and 2009) than in the State of Illinois (15% growth between 2006 and 2009).

Morbidity Issues – Several different diseases have seen significant growth between 2008-2011.

Asthma – Asthma rates are higher in McLean County than in the State of Illinois (18% and 13.3% respectively) and growth rates for asthma are significantly higher in McLean County than in the State of Illinois.

Diabetes – There was a significant increase in the percentage of McLean County residents reporting they were informed they had Type II diabetes between 2006 (3.6%) and 2009 (6.8%).

Cardiovascular Disease – The number of cases of inpatient heart failure at Bloomington area hospitals from the McLean County region has increased 6% between 2009 (269 cases) and 2012 (285 cases) for individuals 65 years of age and older.

Mortality – For McLean County, the two leading causes of mortality are heart disease and cancer. While there are other categories for mortality, heart disease and cancer are significantly more prevalent than all other categories.

PHASE II – COLLECTION, ANALYSIS AND INTERPRETATION OF PRIMARY DATA

A comprehensive understanding of targeted stakeholders was completed in Chapters 6-9. Specifically, it was important to understand how “at risk” or economically disadvantaged people perceived: (1) relative importance of health issues; (2) relative importance of unhealthy behaviors; (3) access to health care, dental care, counseling and prescription medications. Through this type of research, opportunities were identified for improving how community

St. Joseph Medical Center Community Health-Needs Assessment

health needs are addressed; and insights into how perceptions are affected by demographic characteristics. Critical findings include:

Misperceptions of community health issues – Inconsistencies exist between people’s perception of health issues and actual data.

Based on results from the survey, respondents incorrectly perceived “lung disease,” “heart disease” and “stroke” as being relatively less important health concerns to the community. These results conflict with:

- the number of cases of COPD, a contributing factor of lung disease, increased for older individuals at McLean area hospitals between 2009 and 2012;
- mortality data that indicates heart disease is the leading cause of death in McLean County;
- the number of cases of stroke increased at McLean area hospitals between 2009 and 2012;

Perceptions of the importance of access to health services – Access to health services is rated as one of the highest determinants to quality of life across all categories.

Access to Medical Services – Several issues relating to health service access were identified.

Choice of Medical Care – Only 53% of people living in deep poverty seek medical services at a clinic or doctor’s office. For this segment of the population, it is very common to seek medical services from an emergency department (24%), or even more concerning is that 16% of this segment of the population will not seek any medical services at all.

Access to Medical Care and Prescription Medications – Over 44% of the population living in deep poverty indicated there was a time in the last year when they were not able to get medical care when needed. The leading causes were lack of insurance and inability to afford a copayment or deductible. Similar results were found for access to prescription medication.

Access to Dental Care – While significant research exists linking dental care to numerous diseases, including heart disease, only 51% of the aggregate McLean County population had a checkup in the last year. Specifically, men, younger respondents, non-White ethnicity, less educated people, lower household income and the homeless were less likely to visit a dentist.

Access to Counseling -- Approximately 25% of people living in deep poverty indicated they were not able to get counseling when they needed it over the last 12 months. Leading indicators are younger people, less education, lower household income and homelessness. While affordability and insurance were the leading reasons, fear and embarrassment were also significant.

Access to Information – Across categories, residents of the McLean County area get most of their medical information from doctors. The next most prevalent source of information is the Internet for the aggregate population and friends/family for those living in poverty.

St. Joseph Medical Center Community Health-Needs Assessment

Type of Insurance –The most prevalent type of insurance for the aggregate population is private or commercial; however, those living in poverty are disproportionately more reliant on Medicaid. Also for those living in poverty, 45% do not have any type of insurance at all.

Healthy Behaviors – Several issues relating to healthy behaviors were identified.

Physical Exercise –More educated people with higher income are more likely to engage in physical exercise. Although only 17% of the population engages in exercise at least 5 times a week.

Healthy Eating – Only 7% of the population consumes at least the minimum recommended servings of fruits/vegetables in a day. Those that are more likely to have healthy eating habits include women, older people, people with higher education and more income. Homeless people are less likely to exhibit healthy eating habits.

Decrease Smoking – Smoking is on the decline, however, less educated people, men, younger people, non-White residents, those with lower income and homeless people are still more likely to smoke.

Self-Perceptions of Health – In terms of self-perceptions of physical and mental health, almost 90% of the population indicated that they were in average or good physical health. Similar results were found for residents' self-perceptions of mental health.

PHASE III – PRIORITIZATION OF HEALTH-RELATED ISSUES

The identification and prioritization of the most important health-related issues in the McLean County region are identified in Chapter 10. After summarizing all of the issues in the Community Health Needs Assessment, a comprehensive analysis of existing community resources was performed to identify the efficacy to which health-related issues were being addressed. Finally, a collaborative team of leaders in the healthcare community used an importance/urgency methodology to identify the most critical issues in the area, including:

- **Obesity**
- **Risky Behaviors-Substance Abuse**
- **Mental Health**
- **Healthy Behavior**
- **Access to Health Services**
- **Dental**

Specific criteria used to identify these issues included: (1) magnitude to the community; (2) strategic importance to the community; (3) existing community resources; (4) potential for impact; and (5) trends and future forecasts.

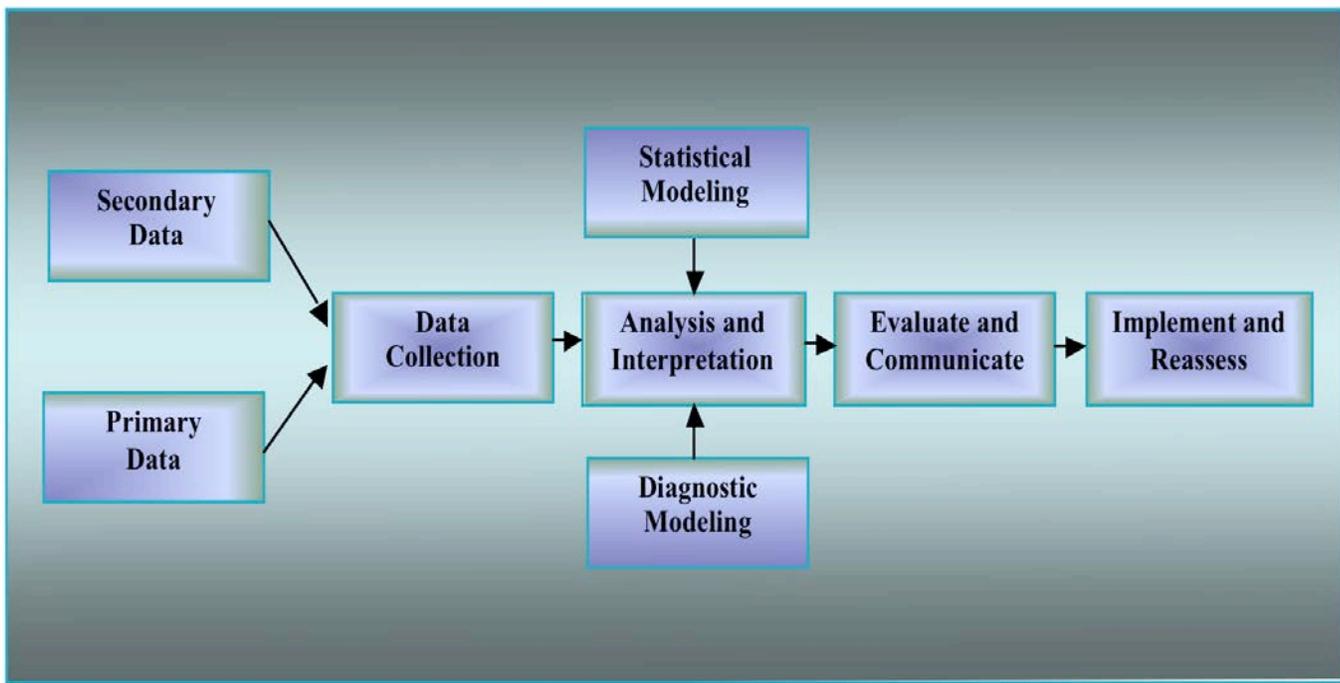
I. INTRODUCTION

Background

The Patient Protection and Affordable Care Act (Affordable Care Act), enacted March 23, 2010 adds new requirements on tax-exempt hospitals to conduct community health-needs assessments and to adopt implementation strategies to meet the community health needs identified through the assessments. This community health-needs assessment (CHNA) takes into account input from specific individuals who represent the broad interest of the community served by OSF St. Joseph Medical Center including those with special knowledge of or expertise in public health. For this study, a community health-needs assessment is defined as a systematic process involving the community, to identify and analyze community health needs and assets in order to prioritize these needs, and to plan and act upon unmet community health needs. Results from this assessment will be made widely available to the public.

The structure of the CHNA is based on standards used by the Internal Revenue Service to develop Form 990, Schedule H–Hospitals, designated solely for tax-exempt hospitals. The fundamental areas of the community needs assessment are illustrated in Figure 1.

Figure 1. Community Needs Assessment Framework



St. Joseph Medical Center Community Health-Needs Assessment

The community health-needs assessment is divided into three distinct phases. **Phase I** focuses on collection of existing secondary data relating to a comprehensive health profile and drawing strategic inferences. **Phase II** focuses on primary data collection to assess perspectives of key stakeholders, including those with special knowledge of the health community. Primary data collection includes a concerted effort to target the at-risk population in the region. **Phase III** focuses on the prioritization of needs within the community.

Design of the Collaborative Team: Community Engagement, Broad Representation and Special Knowledge

In order to engage the entire community in the CHNA process, a collaborative team of health-professional experts and key community advocates was created. Members for the Collaborative team were carefully selected to ensure representation of the broad interests of the community. Specifically, team members included representatives from OSF St. Joseph Medical Center, administrators from the County Health Department, physicians/administrators from clinics serving the at-risk population, representation from the United Way. Note that numerous partner and agency organizations also participated in this study. Specific discussion of these organizations can be found in the METHODS section. Engagement occurred throughout the entire process, resulting in shared ownership of the assessment. The entire collaborative team met in November of 2012 and in February 2013. Additionally numerous meetings were held between the facilitators and specific individuals during the process.

Specifically, members of the **Collaborative Team** consisted of individuals with special knowledge of and expertise in the health care of the community. Individuals, affiliations, titles and expertise are as follows:

Kimberly Anderson

Kimberly Anderson is the Director of Maternal Child Health Services with the McLean County Health Department as of December 2011 and has a BS in Food and Nutrition from Eastern Illinois University. She worked for 19 years with the McLean County WIC program as a nutritionist and then program coordinator. Her prior experience includes Memorial Medical Center, Springfield, IL and Marion County Health Department, Indianapolis, IN.

Sally Gambacorta

Sally Gambacorta has worked at Advocate BroMenn for 18 years in Community Wellness and is currently the Manager of the department. Prior to working at Advocate BroMenn, Sally worked for several years for the U.S. Public Health Service as a Wellness Coordinator and Exercise Physiologist. She has a B.A. in Business Administration from Augustana College, a M.S. in Industrial/Organizational Psychology from Illinois State University, and a M.A. in Leisure Studies with a concentration in Health Promotion and Corporate Fitness from the University of Iowa. She has extensive experience in community health as well in on-site employee and corporate wellness.

Erin Kennedy

As the director of the Center for Healthy Lifestyles, Erin Kennedy is responsible for overseeing daily operations, as well as assisting businesses and communities in McLean and Livingston counties with designing and implementing wellness programs. Erin works closely with

St. Joseph Medical Center Community Health-Needs Assessment

physicians to promote community awareness on various health related topics. Her special interests include working with those who have heart disease, diabetes, and obesity concerns. Erin has been published in several trade magazines and journals and is a member of the American College of Sports Medicine. She holds a bachelor's degree in exercise science and a master's degree in exercise physiology from Illinois State University. Erin joined the OSF Healthcare System in 2000.

Jackie Lanier

Jackie Lanier has worked as a Health Promotion Specialist for the McLean County Health Department for over 12 ½ years. Her duties at the Health Department are varied and include: tobacco prevention and control initiatives, coordinating elements of the Illinois Project for Local Assessment of Need and Community Health Plan process, and implementation of a local community transformation grant from the Illinois Department of Public Health. For the last three years, she has served as the co-chair of the McLean County Wellness Coalition. The McLean County Wellness Coalition is comprised of campus and community organizations working to promote healthy eating and active living in the home, school and child care environments, workplace, healthcare settings, and the community. She received her bachelor's degree in biology from Illinois State University, Master of Science in Public Health from the University of Illinois at Champaign, and is currently working on her Doctor of Public Health Degree from the University of Illinois at Chicago. Jackie is a master certified health education specialist.

Ashley Long

Ashley Long, MSW, is the Director of Community Impact at United Way of McLean County. She has a master's in Social Work from the University of Chicago and has worked with multiple United Ways over the last six years. Her background is in program evaluation, community development and administration. She works with community volunteers to address community needs and create community change in the areas of Education, Income and Health.

Angie McLaughlin

Angie McLaughlin is the Executive Director of the Community Health Care Clinic. She has a Master's Degree in Social Work from Illinois State University and has over 15 years' experience working with the most vulnerable members of her community. In addition to leading a free medical clinic, Angie is active on several community initiatives related to improving access to quality healthcare for the uninsured of McLean County. Angie also serves on the board of directors for the Illinois Association of Free and Charitable Clinics.

Michelle Maurer

Michelle Maurer is a school nurse at Bloomington High School. She has a BSN from Mennonite College of Nursing and is a Certified School Nurse through University of Illinois Chicago. While she has a background in Critical Care, she has been employed by District 87, Bloomington Public Schools for the past 12 years. Her community involvement includes the following: McLean County Wellness Coalition, School Subcommittee; McLean County Asthma Coalition; District 87 Wellness Committee; and America's Promise School Project Working Group at Illinois State University. She was also the recipient of the 2012 McLean County Public Health Award.

St. Joseph Medical Center Community Health-Needs Assessment

Meridith Nelson

Meridith Nelson is the Director of Strategic Planning at OSF St. Joseph Medical Center in Bloomington, Illinois. With 18 years of experience in health care in not-for-profit, for-profit, and government settings, she has spent the last ten years focused in business development and strategic planning in not-for-profit, faith-based health systems. She holds a BS in Pharmacy from the University of Kansas and MHA and MBA degrees from The University of Iowa.

Paul Pedersen, MD

Dr. Pedersen was born and raised in Belvidere, Illinois. He then completed undergraduate studies at Illinois Wesleyan University and medical school at University of Illinois in Chicago, with an internal medicine residency at Louis Weiss Hospital in Chicago. In 1980, he came to the Bloomington-Normal area to establish a general internal medicine practice with McLean County Internal Medical Associates. He joined OSF in 1995 and became the Chief Medical Officer at that time. Although he currently spends most of his time in his administrative role, he still devotes time to seeing patients in his ambulatory office.

Tina Sipula

Originally from Ottawa, Illinois, Tina Sipula moved to the Bloomington/Normal area in 1971 to attend Illinois State University. After graduating in 1975 with a Bachelor's in Education, Tina taught High School and Jr. High English. In 1978, she opened Clare House of Hospitality, originally a shelter for homeless women and families. Presently, Clare House is a food pantry that hands out approximately 150 bags of groceries a week. In 1983, Tina opened "Loaves and Fishes" Soup Kitchen, which offers a free lunch twice a week to 80 to 100 individuals. With a volunteer staff of 75 people, Tina and her crew have worked to alleviate hunger in the Bloomington/Normal community for the past 35 years.

Judy Swindle

Judy Swindle is the Manager of Clinical Support Services, which includes Patient Advocacy, Pastoral Care, Social Services, Respiratory Therapy and Education, at OSF St. Joseph Medical Center with 18 ½ years as OSF SJMC employee. She is currently pursuing a Master's Degree in Counseling from Jubilee Christian College.

John Zell

John Zell has been with OSF Healthcare System for 23 years, serving the last 13 years as the Vice President/Chief Financial Officer at OSF St. Joseph Medical Center. He earned his Bachelor of Science at ISU and his Master of Business Administration from the University of Colorado in Denver. He is a Certified Public Accountant and has been recognized by the Healthcare Financial Management Association as a Fellow and a Certified Healthcare Professional. John has served on boards of directors and in other leadership roles in a number of organizations in both the Bloomington-Normal and Peoria areas.

St. Joseph Medical Center Community Health-Needs Assessment

In addition to collaborative team members, the following **facilitators** managed the process and prepared the Community Health Needs Assessment. Their qualifications and expertise are as follows:

Michelle A. Carrothers (Coordinator) is currently the Director of Debt Management and Revenue Cycle for OSF Healthcare System, a position she has served in since 2002. Michelle has over 27 years of health care experience. Michelle obtained both a Bachelor of Science Degree and Masters of Business Administration Degree from Bradley University in Peoria, IL. She attained her CPA in 1984 and has earned her FHFMA certification in 2011. Currently, she serves on the Revenue Cycle Key Performance Indicator Task Force and the National Advisory Council for HFMA National. Michelle chaired the Illinois Hospital Association Medicaid Cost Work Group and was a member of the IHA task force that developed the statewide Community Benefit Report that is submitted to the Attorney General's Office.

Dawn Irion (Coordinator) is the Community Benefits Coordinator at OSF Healthcare System. She has worked for OSF Healthcare system since 2004 and has helped coordinate the submission of the Community Benefit Attorney General report since 2008. She has coordinated and gathered information used in filing IRS Form 990 Schedule H since 2009 and is a member of Healthcare Financial Management Association.

Eric J. Michel (Research Associate) MBA, is a faculty member in Leadership at Christopher Newport University in Newport News, VA. Previously, he served on the faculty of the Foster College of Business at Bradley University in Peoria, IL. Professor Michel has coauthored over a dozen papers on leadership and organizational strategy for presentations at national conferences and for publication in academic journals. He serves as a consultant to not-for-profit and healthcare organizations in the areas of executive development and community assessment.

Dr. Laurence G. Weinzimmer (Principal Investigator) Ph.D. is the Caterpillar Inc. Professor of Strategic Management in the Foster College of Business at Bradley University in Peoria, IL. An internationally recognized thought leader in organizational strategy and leadership, he is a sought-after consultant to numerous *Fortune 100* companies and not-for-profit organizations. Dr. Weinzimmer has authored over 100 academic papers and four books, including two national best sellers. His work appears in 15 languages, and he has been widely honored for his research accomplishments by many prestigious organizations, including the Academy of Management. Dr. Weinzimmer has served as principle investigator for numerous community assessments, including the United Way, Economic Development Council and numerous hospitals.

Definition of the Community

In order to determine the geographic boundaries for OSF St. Joseph Medical Center, analyses were completed to identify what percentage of inpatient and outpatient activity was represented by McLean County. Data show that McLean County alone represents 73% of all patients for the hospital.

St. Joseph Medical Center Community Health-Needs Assessment

In terms of patient categories for this CHNA, in addition to defining the community by geographic boundaries, this study will target the at-risk populations as an area of potential opportunity to improve the health of this population.

Purpose of the Community Health-Needs Assessment

In the initial meeting, the collaborative committee identified the purpose of this study. Specifically, this study has been designed to provide necessary information to health-care organizations, including hospitals, clinics and the health departments, in order to create strategic plans in program design, access and delivery. Results of this study will act as the platform to allow health-care organizations to orchestrate limited resources to improve management of high-priority challenges. By working together, the hospitals, clinics and health departments will use this CHNA to help improve the quality of health care in the defined community. When feasible, data are assessed longitudinally to assess changes and patterns and benchmarked with state averages.

II. METHODS

To complete the comprehensive community health-needs assessment, multiple sources were examined. Secondary statistical data were used for the first phase of the project. Additionally, based on a sample of 774 survey respondents from McLean County, phase two focused on assessing perceptions of the community health issues, unhealthy behaviors, issues with quality of life, healthy behaviors and access to health care. Data were collected to assess the importance of specific issues, as well as access to health care.

Phase I. Secondary Data for Community Health Needs Assessment

We first used existing secondary statistical data to develop an overall assessment of the health-related issues in the community. Note that several tables were aggregated from numerous data sources. For example, educational report-card tables were compiled by collecting information from numerous individual school report cards and combining aggregated data into these tables.

Five chapters were completed based on assessment of secondary data. Each chapter contains numerous categories. Within each category, there are specific sections, including definitions, importance of categories, data and interpretations. At the end of each chapter there is a section on the key strategic implications that can be drawn from the data.

Note that most of the data used for this phase was acquired via publically available data sets. However, for specific sections of Chapter 2 and the majority of Chapter 4, the most recent data available were from 2009. Given a purpose of this assessment is to measure subsequent improvements to community health over time, using data that are three years old is not sufficient. Therefore we used COMPdata from 2008-2012 for all of our disease categories. This required manual aggregation of data from the hospitals serving the McLean County area.

Based on several retreats, a separate OSF Collaborative Team identified six primary categories of diseases, including: age related, cardiovascular, respiratory, cancer, type 2 diabetes

St. Joseph Medical Center Community Health-Needs Assessment

and infections. We also identified secondary causes of diseases as well as intentional and unintentional injuries. In order to define each disease category, we used modified definitions developed by Sg2. Sg2 specializes in consulting for health care organizations. Their team of experts includes MDs, PhDs, RNs and health care leaders with extensive strategic, operational, clinical, academic, technological and financial experience.

Phase II. Primary Data Collection

This section describes the research methods used to collect, code, verify and analyze primary data. Three specific areas include the research design used for this study: survey design, data collection and data integrity.

A. Survey Instrument Design

Initially, all surveys used in previous health-needs assessments in the U.S. that we were able to identify were assessed to identify common themes and approaches to collecting community health-needs data. In all, 15 surveys were identified. By leveraging best practices from these surveys, we created our own pilot survey. To ensure that all critical areas were being addressed, the entire OSF collaborative team was involved in survey design/approval through several fact-finding sessions. Specifically, for the community health need assessment, five specific areas were included:

Ratings of health problems in the community – to assess the importance of various community health concerns. Survey items included areas assessing topics such as cancer, diabetes and obesity. In all, there were 20 choices provided for survey respondents.

Ratings of unhealthy behaviors in the community – to assess the importance of various unhealthy behaviors. Survey items included areas assessing topics such as violence, drug abuse and smoking. In all, there were 14 choices provided for survey respondents.

Ratings of issues with quality of life – to assess the importance of various issues relating to quality of life in the community. Survey items included areas assessing topics such as access to health care, safer neighborhoods and effective public transportation. In all, there were nine choices provided for survey respondents.

Accessibility to health care – to assess the degree to which residents could have access to health care when needed. Survey items included areas assessing topics such as access to medical, dental and mental care, as well as access to prescription drugs.

Healthy behaviors – to assess the degree to which residents exhibited healthy behaviors. The survey focused on areas such as exercise, healthy eating habits and smoking.

Finally, demographic information was collected to assess background information necessary to segment markets in terms of the five categories discussed above.

St. Joseph Medical Center Community Health-Needs Assessment

After the initial survey was designed, a pilot study was created to test the psychometric properties and statistical validity of the survey instrument. The pilot study was conducted at the Heartland Community Health Clinic's three facilities. The Heartland Clinic was chosen as it serves the at-risk population and also has a facility that serves a large percentage of the Hispanic population. A total of 130 surveys were collected. Results from the pilot survey revealed specific items to be included/excluded in the final survey instrument. Selection criteria for the final survey included validity, reliability and frequency measures based on responses from the pilot sample. Note that these surveys were not included in the final sample. A copy of the final survey is included in Appendix 1.

B. Sample Size

In order to identify our potential population, we first identified the percentage of the McLean County population that was living in poverty. Specifically, we multiplied the population of the county by its respective poverty rate to identify the minimum sample size to study the at-risk population. Poverty rate for McLean County was 12.9 percent. The populations used for the calculation was 170,556, yielding a total of 22,002 residents living in poverty in the McLean County area.

We assumed a normal approximation to the hypergeometric given the targeted sample size.

$$n = (Nz^2pq)/(E^2 (N-1) + z^2 pq)$$

where:

n = the required sample size

N = the population size

pq = population proportions (set at .05)

z = the value that specified the confidence interval (use 95% CI)

E =desired accuracy of sample proportions (set at +/- .05)

For the total McLean County area, the minimum sample size for those living in poverty was 374. Note that for *aggregated* analyses, an additional 271 random surveys were needed from those not living in poverty in order to identify and analyze general perspectives.

In order to satisfy sampling requirements for both those living in poverty as well as aggregate perspectives, the data collection effort for this CHNA yielded a total of 774 usable responses. This met the threshold of the desired confidence interval. Final results for data collection yielded a total of 415 respondents living in poverty for this CHNA and data for the total aggregate population yielded a total of 774 usable responses. This exceeded the threshold of the desired 95% confidence interval. Specifically, these numbers met the 99% confidence interval threshold for the aggregate population.

C. Data Collection

The partner organizations for McLean County were:

- Western Ave Community Center (Food Pantry), Bloomington
- Clare House (Food Pantry), Bloomington
- Home Sweet Home (multiple services, including homeless shelter), Bloomington
- Loaves & Fishes (soup kitchen), St. Mary's parish, Bloomington
- Salvation Army/Safe Harbor (homeless shelter), Bloomington
- Heartland Head Start (education), Bloomington
- Eastview Christian Church (Food Pantry), Normal
- YWCA, Bloomington
- Bloomington Public Library, Bloomington
- John M. Scott Center, City of Bloomington (multiple services)
- Peace Meal sites: Lexington Community Center; Woodhill Towers (Bloomington); Normal Township Senior Activity Center
- Mt. Pisgah Church, Bloomington

To collect data in this study, two techniques were used. First, an online version of the survey was created. Second, a paper version of the survey was distributed. In order to be sensitive to the needs of respondents, surveys stressed assurance of confidentiality and anonymity.

To specifically target the at-risk population, surveys were distributed at all homeless shelters and soup kitchens. Specific partner organizations are mentioned above and also include the United Way of McLean County and the McLean County Health Department. Note that since we specifically targeted the at-risk population as part of the data collection effort, this became a stratified sample, as we did not specifically target other groups based on their socio-economic status. However, when using convenience-sampling techniques, we made a concerted effort to assure randomness in order to mitigate potential bias in the sample.

D. Data Integrity

Comprehensive analyses were performed to verify the integrity of the data for this research. Without proper validation of the raw data, any interpretation of results could be inaccurate and misleading if used for decision making. Therefore, several tests were performed to ensure that the data were valid. These tests were performed before any analyses were undertaken. Data were checked for coding accuracy, using descriptive frequency statistics to verify that all data items were coded correctly. This was followed by analyses of means and standard deviations and comparison of primary data statistics to existing secondary data. Additionally, for regression models, residual analyses were performed to ensure that the data met assumptions of the underlying models. Specifically, residuals were analyzed to make sure (1) the data were normally distributed, (2) no patterns existed among residuals (e.g., heteroscedasticity) and (3) no significant outliers biased the outputs.

E. Analytic Techniques

In order to ensure statistical validity, we used several different analytic techniques to assess data. Specifically, frequencies and descriptive statistics were used for identifying patterns in residents' rating of various health concerns. Additionally appropriate statistical techniques were used for identification of existing relationships between perceptions, behaviors and demographic data. Specifically, we used Pearson correlations, χ^2 tests and tetrachoric correlations when appropriate, given characteristics of the specific data being analyzed.

PHASE I – SECONDARY DATA RESEARCH FOR COMMUNITY HEALTH NEEDS

In this section of the community health needs assessment, there are five chapters that assess different aspects of the general community as well as specific health-related issues. All of the information in this section is taken from secondary data sources. As described in the METHODS section, some data sources are publically available and other data sources are comprised of aggregated hospital data from 2012.

The chapters are as follows:

CHAPTER 1. DEMOGRAPHIC PROFILE**CHAPTER 2. PREVENTION****CHAPTER 3. SYMPTOMS/PREDICTORS****CHAPTER 4. DISEASES/MORBIDITY****CHAPTER 5. MORTALITY**

CHAPTER 1. DEMOGRAPHIC PROFILE

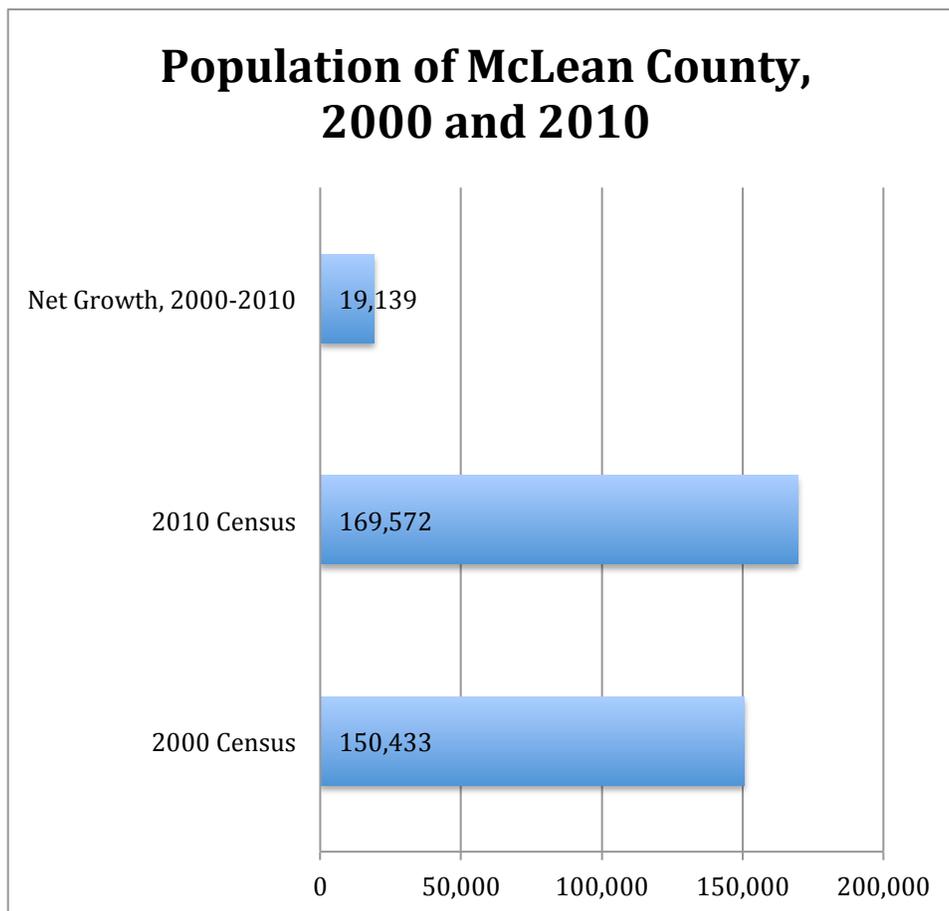
1.1 Population

Importance of the measure: Population data characterizes the individuals residing within the jurisdictional boundaries McLean County. Population data provides an overview of population growth trends and builds a foundation for additional analysis of these data.

1.1.1 Population by Municipality

The 2010 census of McLean County indicated a population of 169,572 residents. Compared to the 2000 census of the McLean County population, the 2010 census of the McLean County population shows an increase of 19,139 residents. The vast majority of residents relocating to McLean County in the last decade live in Bloomington (+11,802) and Normal (+7,111).

Table 1.1.1-1 Population of McLean County, 2000 and 2010



Source: 2010 US Census; 2000 US Census

Table 1.1.1-2 Population of Municipalities in McLean County, 2000 and 2010

County/Municipality	2000 Census	2010 Census	Net Growth, 2000-2010
McLean County	150,433	169,572	19,139
Anchor village	175	146	-29
Arrowsmith village	298	294	-4
Bellflower village	408	357	-51
Bloomington city	64,808	76,610	11,802
Carlock village	456	552	96
Chenoa city	1,845	1,785	-60
Colfax village	989	1,061	72
Cooksville village	213	182	-31
Danvers village	1,183	1,154	-29
Downs village	776	1,005	229
Ellsworth village	271	195	-76
El Paso city (part)	0	0	0
Gridley village	1,411	1,432	21
Heyworth village	2,431	2,841	410
Hudson village	1,510	1,838	328
Le Roy city	3,332	3,560	228
Lexington city	1,912	2,060	148
McLean village	808	830	22
Normal town	45,386	52,497	7,111
Saybrook village	764	693	-71
Stanford village	670	596	-74
Towanda village	493	480	-13
Twin Grove CDP	X	1,564	N/A

Source: 2010 US Census; 2000 US Census

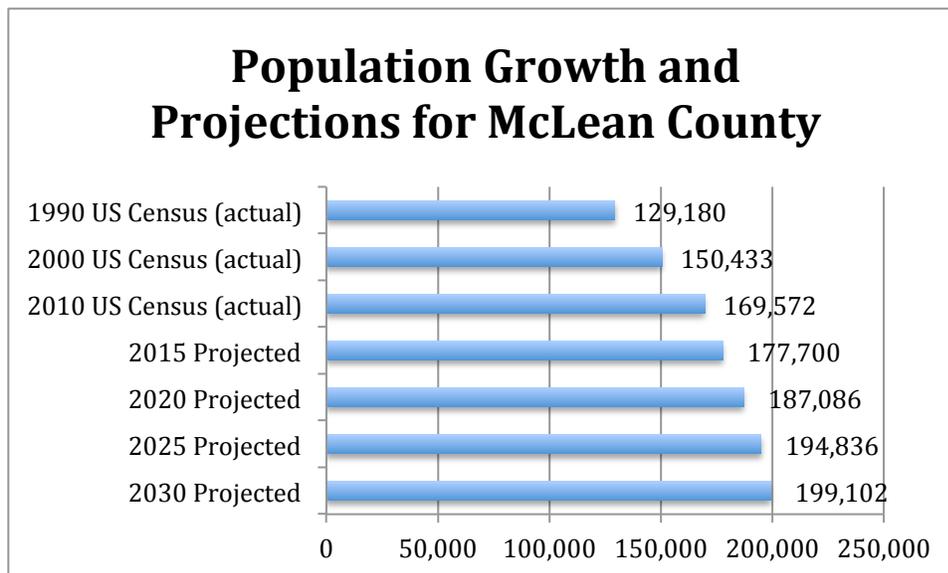
1.1.2 Growth Rates

Data from the last three censuses (1990, 2000, 2010) indicate positive population growth both between 1990 and 2000 and between 2000 and 2010 for McLean County. Data also suggest that the population of McLean County has grown 42% between 1980 and 2010.

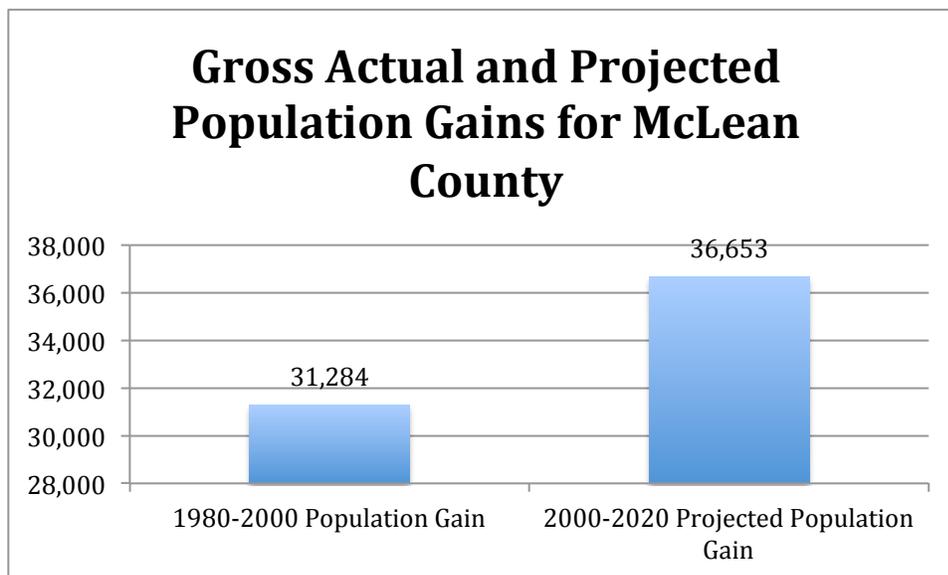
With regard to McLean County, ten municipalities experienced negative population growth between 2000 and 2010 and twelve municipalities experienced positive growth between 2000 and 2010.

With regard to population projections for the next twenty years (2010 to 2030), McLean County is expected to maintain robust positive population growth through 2030.

St. Joseph Medical Center Community Health-Needs Assessment

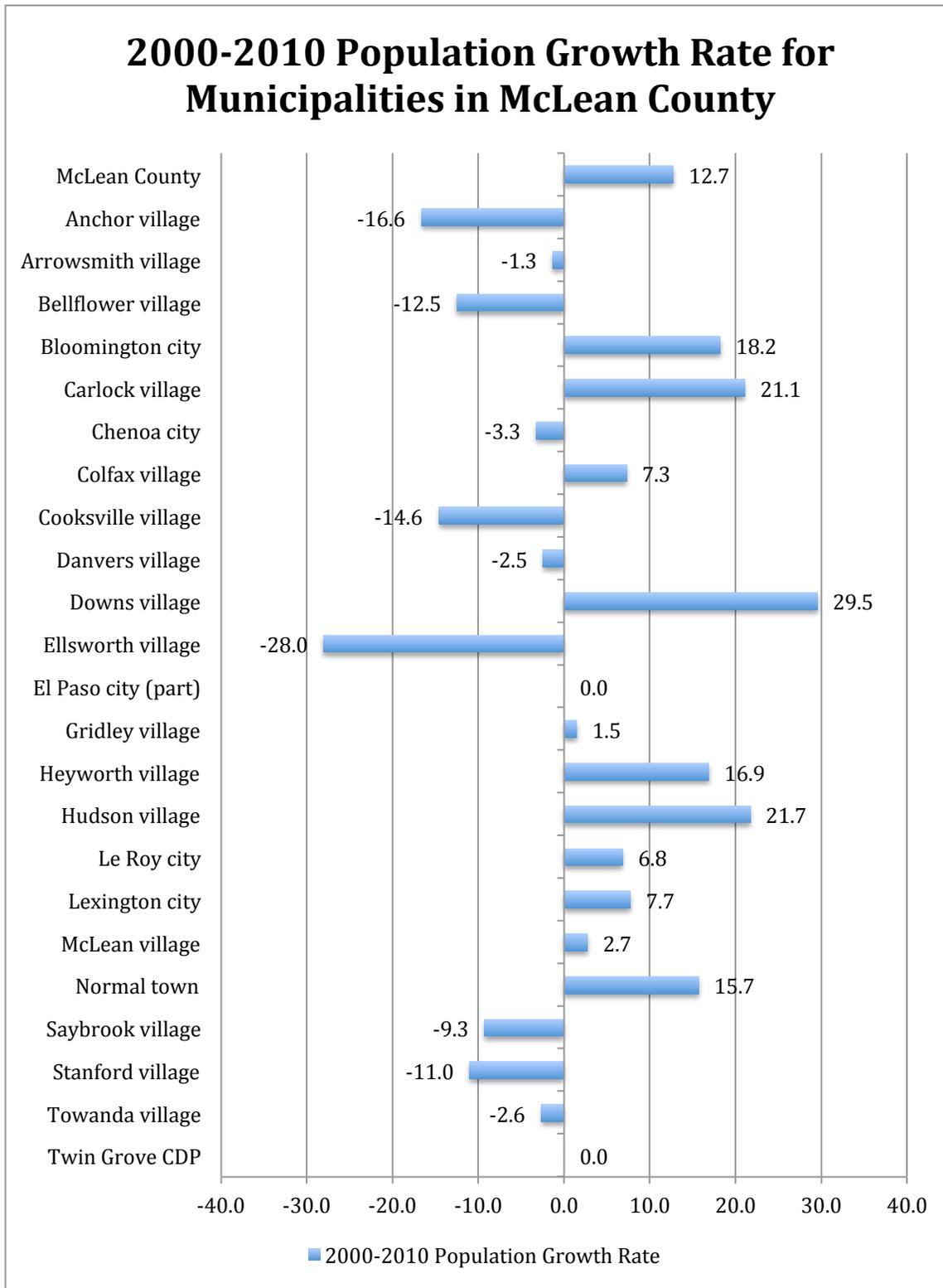
Table 1.1.2-1 Population Growth and Projections for McLean County

*Source: 1990, 2000, & 2010 US Census;
Illinois Department of Commerce & Economic Opportunity*

Table 1.1.2-2 Gross Actual and Projected Population Gains for McLean County

*Source: 1990, 2000, & 2010 US Census;
Illinois Department of Commerce & Economic Opportunity*

Table 1.1.2-3 2000-2010 Population Growth Rate for Municipalities in McLean County



Source: 2010 US Census; 2000 US Census

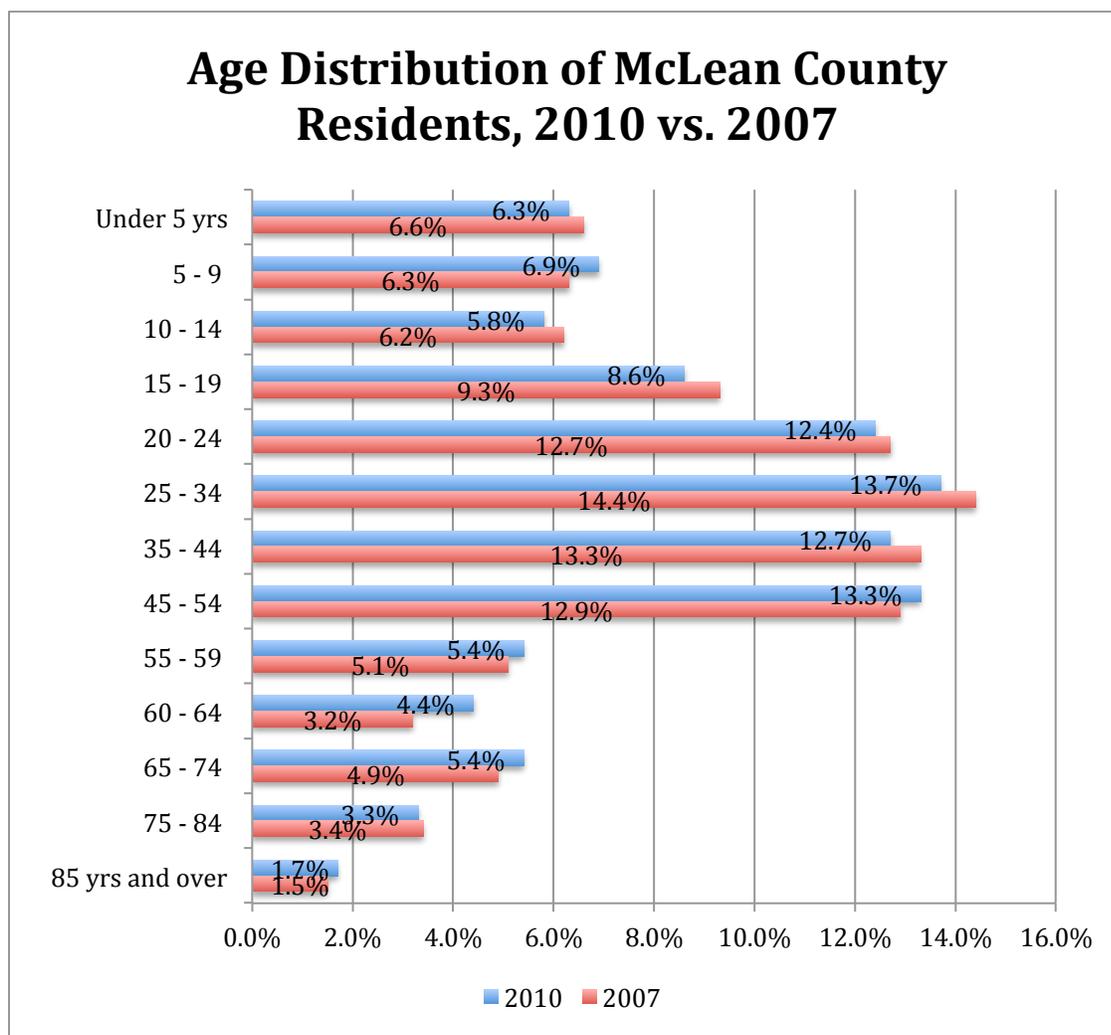
1.2 Age, Gender and Race Distribution

Importance of the measure: Population data broken down by age groups, gender, and race provides a foundation to analyze the issues and trends that impact demographic factors including economic growth and the distribution of health care services. Understanding the cultural diversity of communities is essential when considering health care infrastructure and service delivery systems.

1.2.1 Age

As indicated in Table 1.2-1, individuals in McLean County aged 60-64 increased from 3.2% to 4.4% between 2007 and 2010 and individuals aged 65-74 increased from 4.9% to 5.4% between 2007 and 2010.

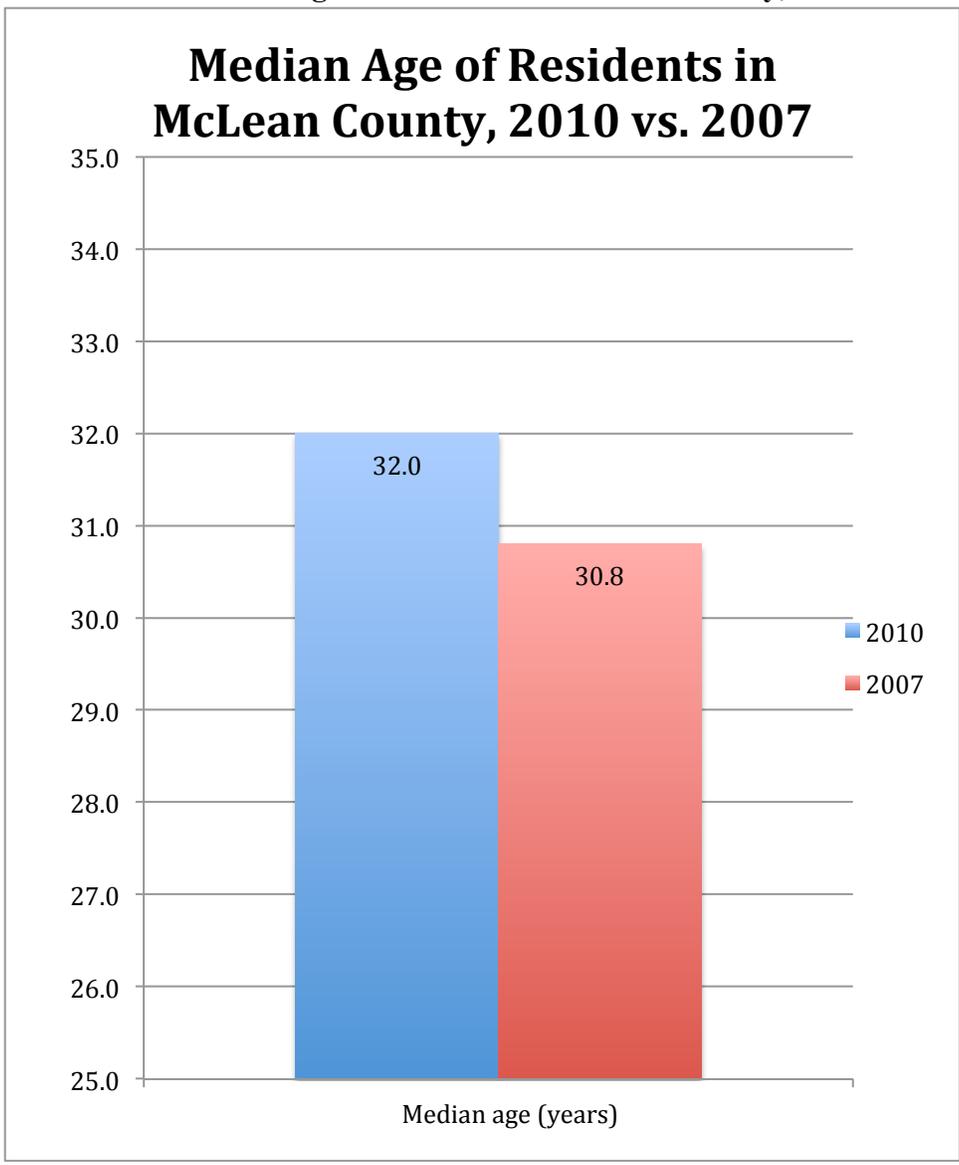
Table 1.2-1 Age Distribution of McLean County Residents, 2010 vs. 2007



Source: 2010 US Census; 2007 American Community Survey

With the increase in the population of older individuals in McLean County, the median age of residents has also increased. Median age of individuals in McLean County increased from 30.8 years to 32.0 years between 2007 and 2010.

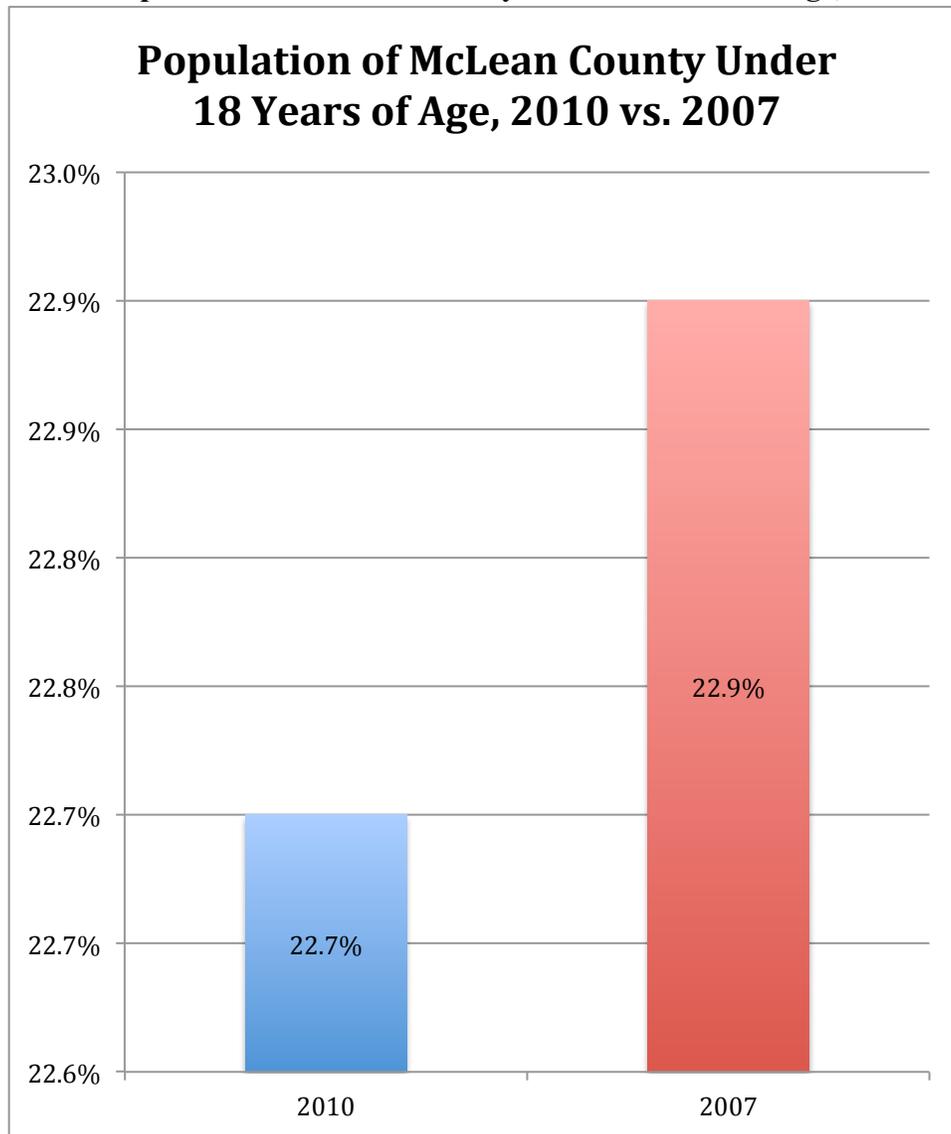
Table 1.2-2 Median Age of Residents in McLean County, 2010 vs. 2007



Source: 2010 US Census; 2007 American Community Survey

Data from 2010 suggest a slight decrease in the populations of youths and older adults. In McLean County, the under 18 population decreased slightly from 22.9% to 22.7%.

Table 1.2-6 Population of McLean County Under 18 Years of Age, 2010 vs. 2007

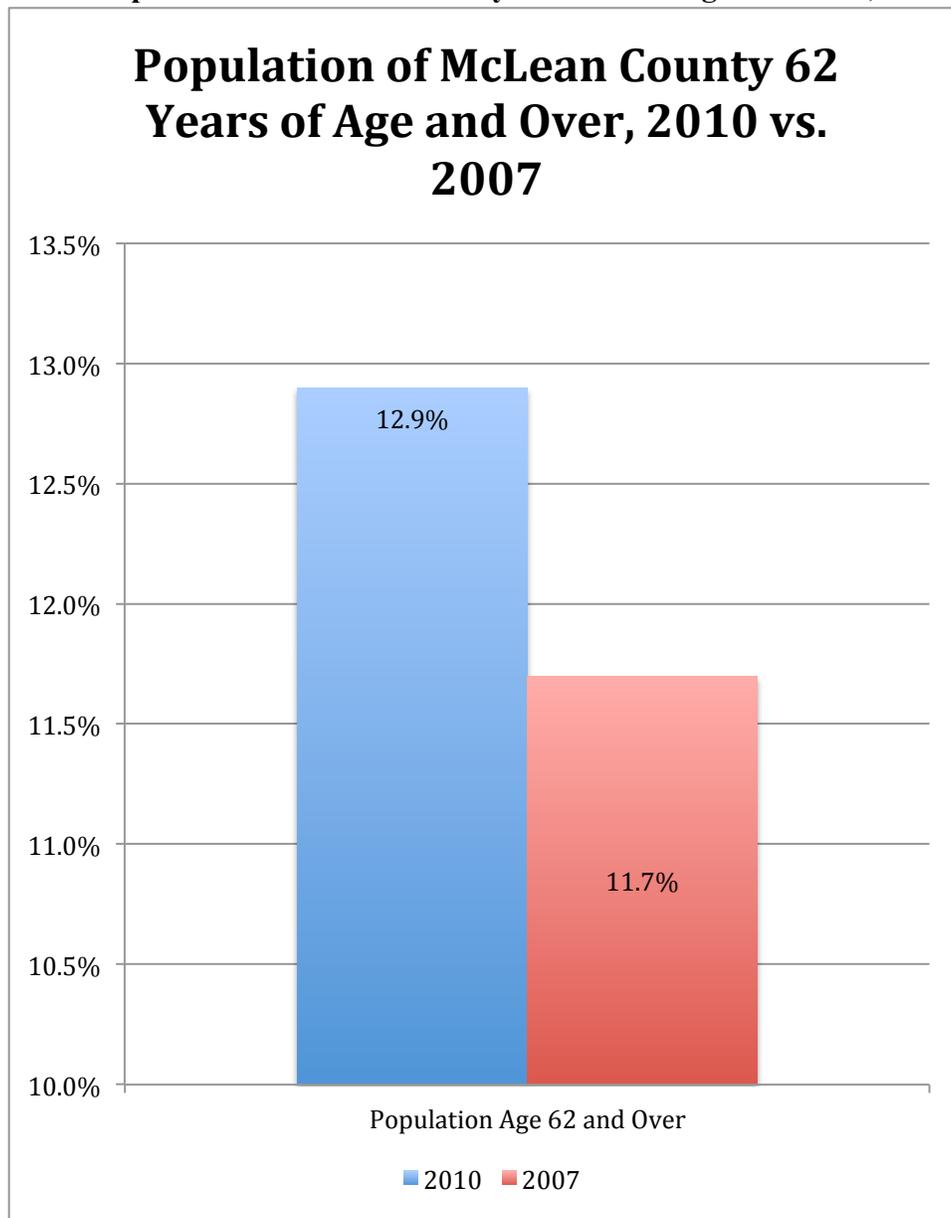


Source: 2010 US Census; 2007 American Community Survey

St. Joseph Medical Center Community Health-Needs Assessment

The national trend concerning the aging of the baby-boomer population is reflected in the 2010 data for McLean County, as nearly 13% of the McLean County population is over 62 years of age. Between 2007 and 2010, the percentage of older adults, age 62 and over, increased slightly from 11.7% of the population in 2007 to 12.9% of the population in 2010.

Table 1.2-7 Population of McLean County 62 Years of Age and Over, 2010 vs. 2007

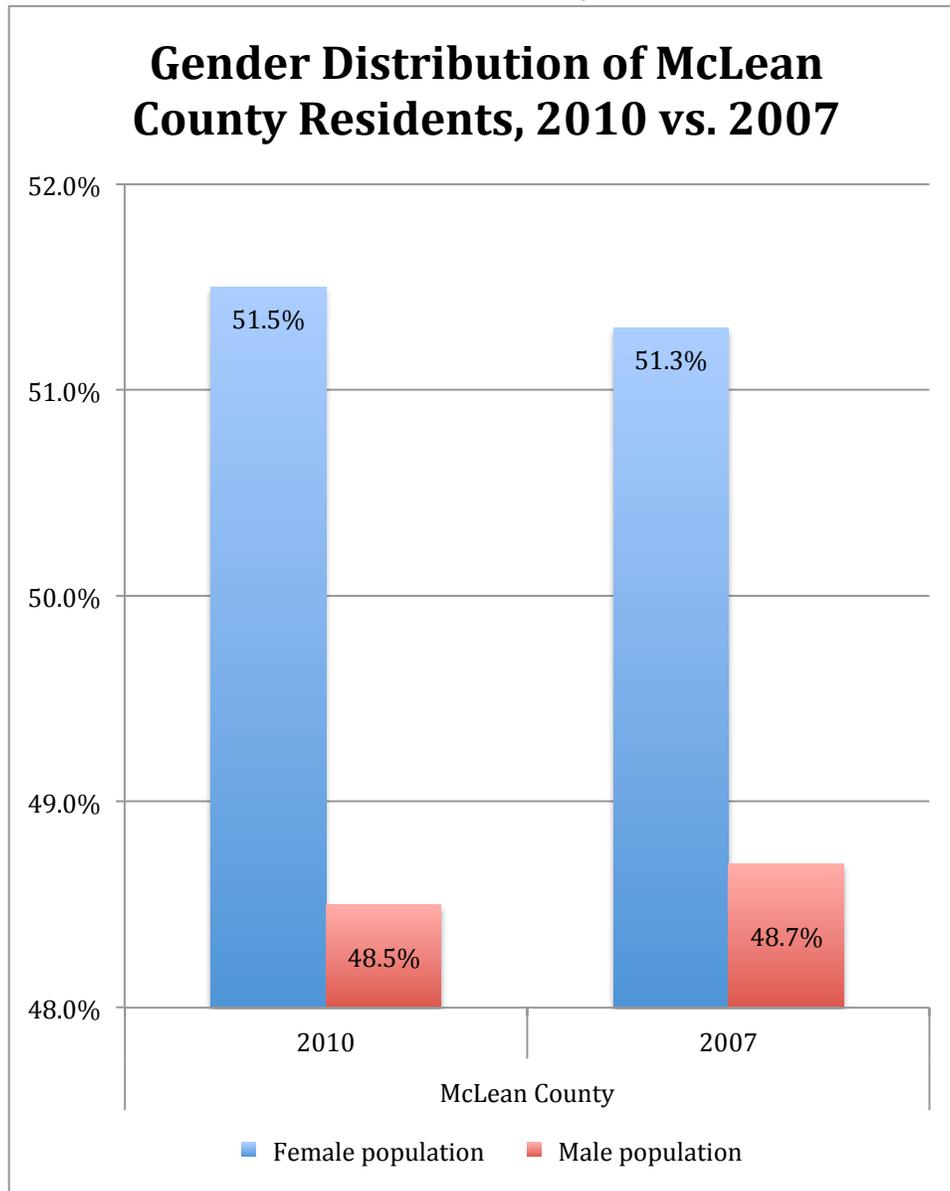


Source: 2010 US Census; 2007 American Community Survey

1.2.2 Gender

The gender distribution of McLean County residents has remained relatively consistent between 2007 and 2010. Data indicates that there were more women than men in 2007 and data from 2010 suggests the number of women in McLean slightly increased from 2007.

Table 1.2.2-1 Gender Distribution of McLean County Residents, 2010 vs. 2007

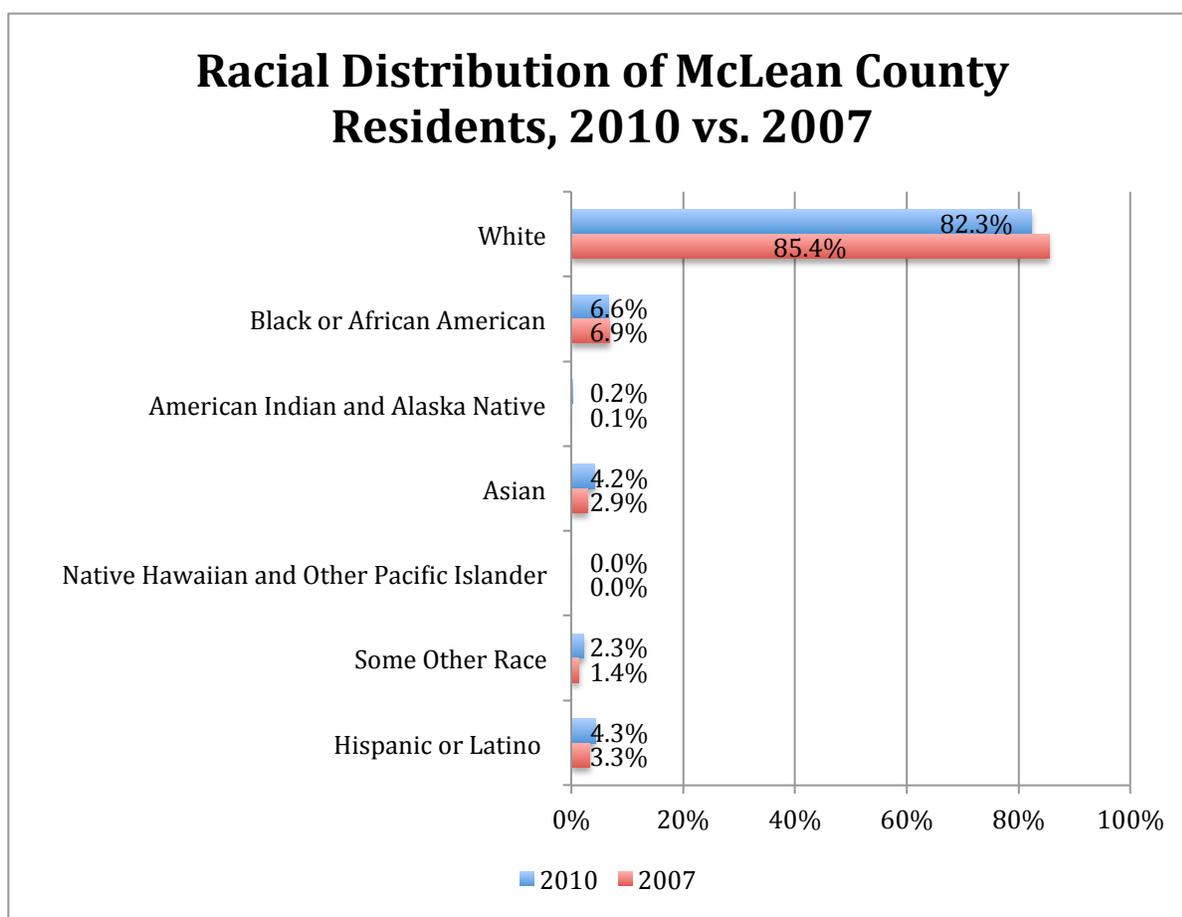


Source: 2010 US Census; 2007 American Community Survey

1.2.3 Race

With regard to race and ethnic background, McLean County is largely homogenous, yet in recent years is becoming more diverse. Data from 2010 suggest that Whites comprise approximately 82% of the population in McLean County. However, the non-White population of McLean County has been increasing since 2007, with individuals identifying with Black or African American ethnicity comprising 6.6% of the population, individuals identifying with Asian ethnicity comprising 4.2% of the population, and individuals identifying with Hispanic ethnicity comprising 4.3% of the population.

Table 1.2.3-1 Racial Distribution of McLean County Residents, 2010 vs. 2007



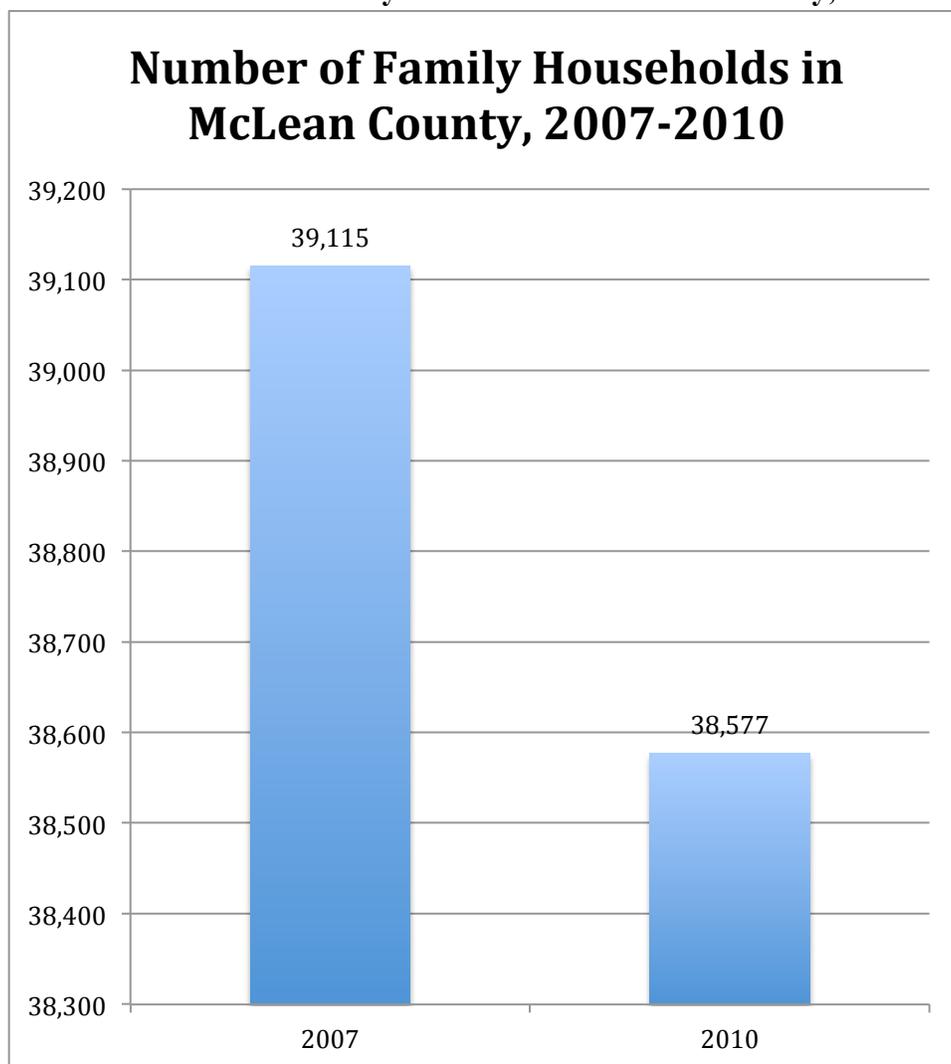
Source: 2010 US Census; 2007 American Community Survey

1.3 Household/family

Importance of the measure: Families are the backbone of society in McLean County, as they dramatically impact the health and development of children and provide support and well-being for older adults.

As indicated in Table 1.3-1, the number of family households within McLean County decreased between 2007 and 2010.

Table 1.3-1 Number of Family Households in McLean County, 2007-2010

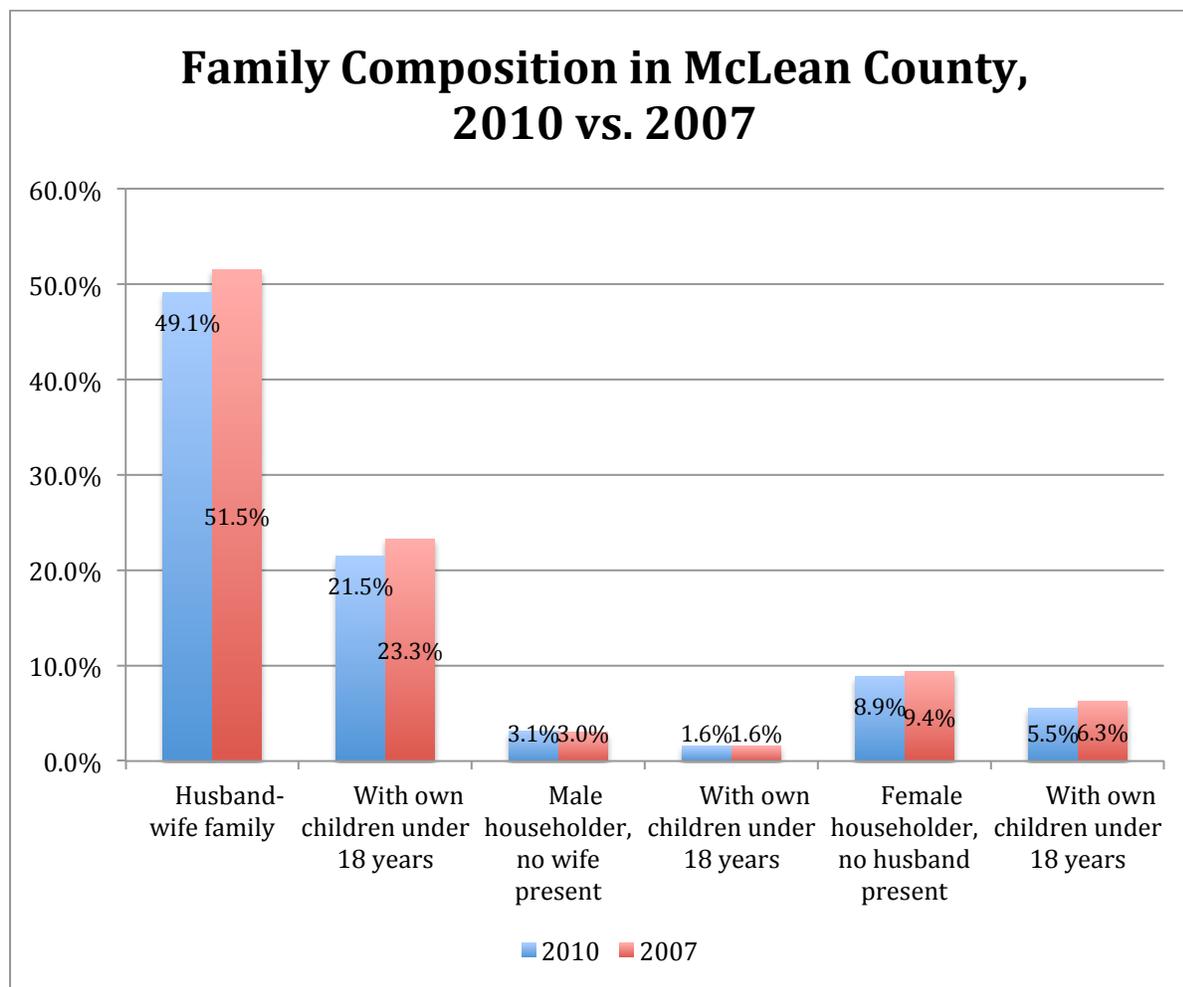


Source: 2010 US Census; 2007 American Community Survey

St. Joseph Medical Center Community Health-Needs Assessment

1.3.1 /1.3.2 Single and Related Family

In McLean County, data from 2010 suggest a 0.1% increase from 2007 in the number of male households with no wife present. Between 2007 and 2010, the percentage of husband-wife families decreased in McLean County by 2.4%. When children under the age of 18 are considered, there has been a decrease in the percentage of children living in a family comprised of a female householder only, with no husband present from 6.3% in 2007 to 5.5% in 2010.

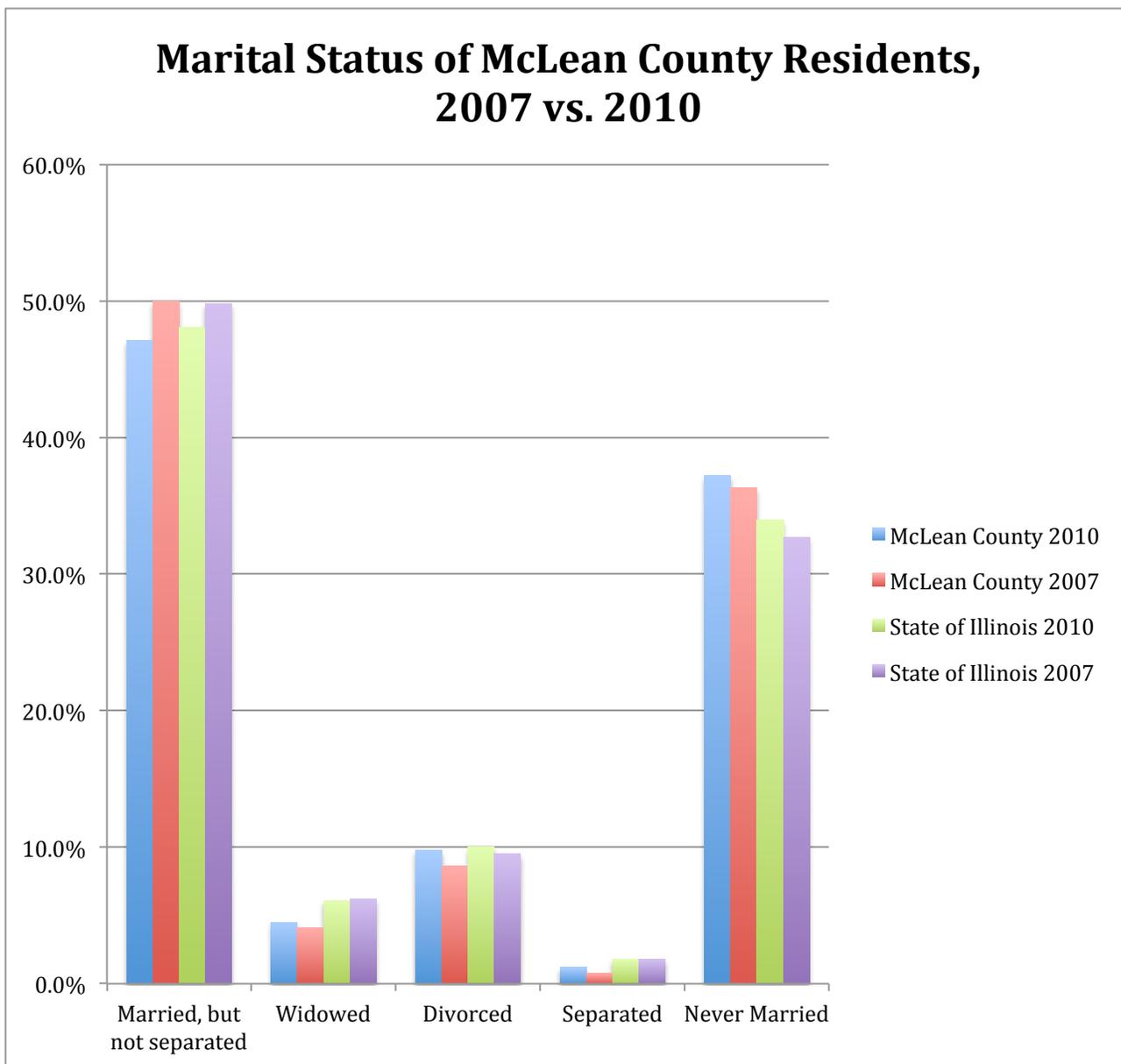
Table 1.3.1-1 Family Composition in McLean County, 2010 vs. 2007

Source: 2010 US Census; 2007 American Community Survey

1.3.3 Marital status

Between 2007 and 2010, McLean County experienced a negative growth rate in the percentage of residents who are married but not separated and positive growth in the percentage of residents who were divorced, widowed, separated, and never married.

Table 1.3.3-1 Marital Status of McLean County Residents, 2007 vs. 2010



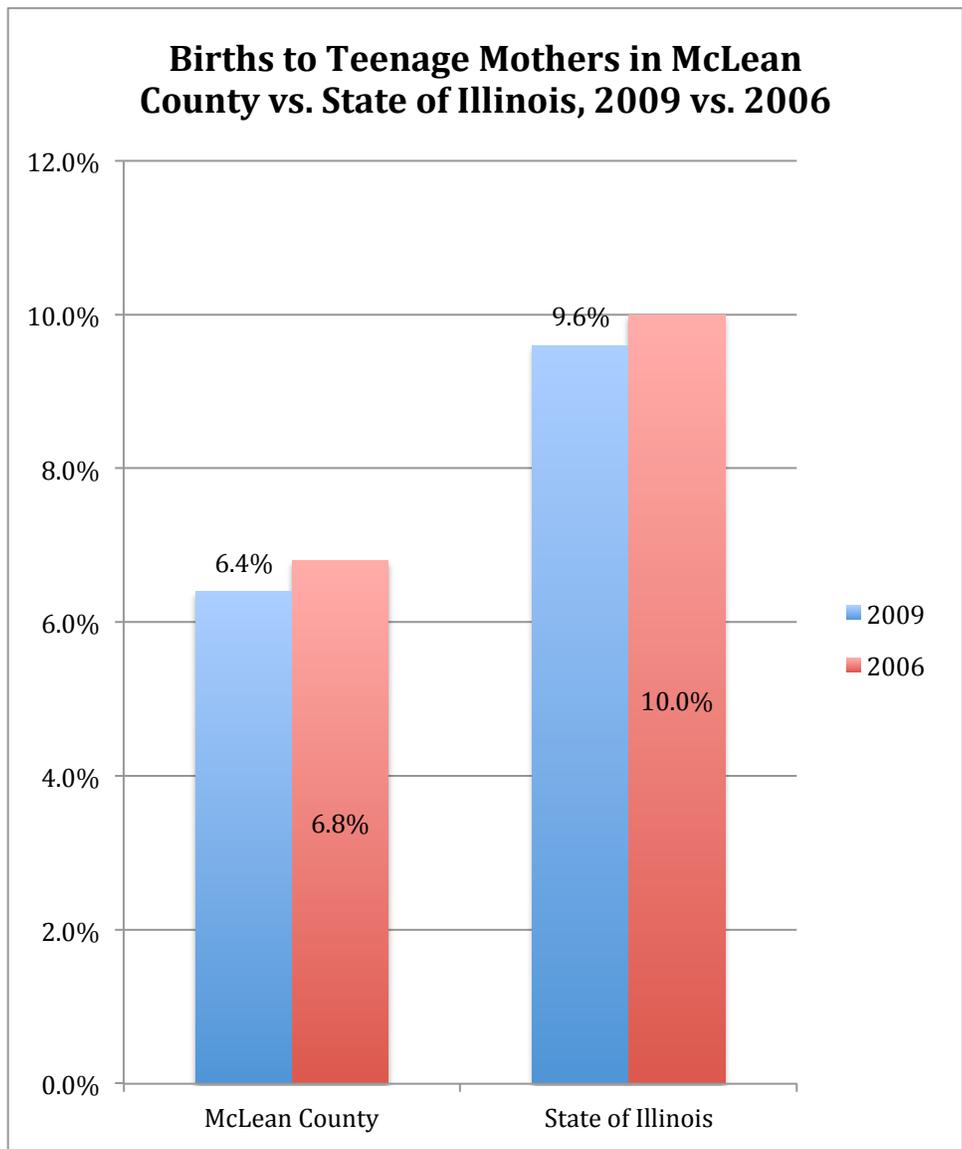
Source: 2010 US Census; 2007 American Community Survey

St. Joseph Medical Center Community Health-Needs Assessment

1.3.4 Early Sexual Activity Leading to Births from Teenage Mothers

With regard to teenage birth rates, McLean County has a lower teen birth rate than the State of Illinois. Between 2006 and 2009, McLean County saw a greater net decrease in teenage births (-5.8%) than the State of Illinois (-4.0%) during the same time frame.

Table 1.3.4-1: Births to Teenage Mothers in McLean County vs. State of Illinois, 2009 vs. 2006



Source: Illinois Department of Public Health

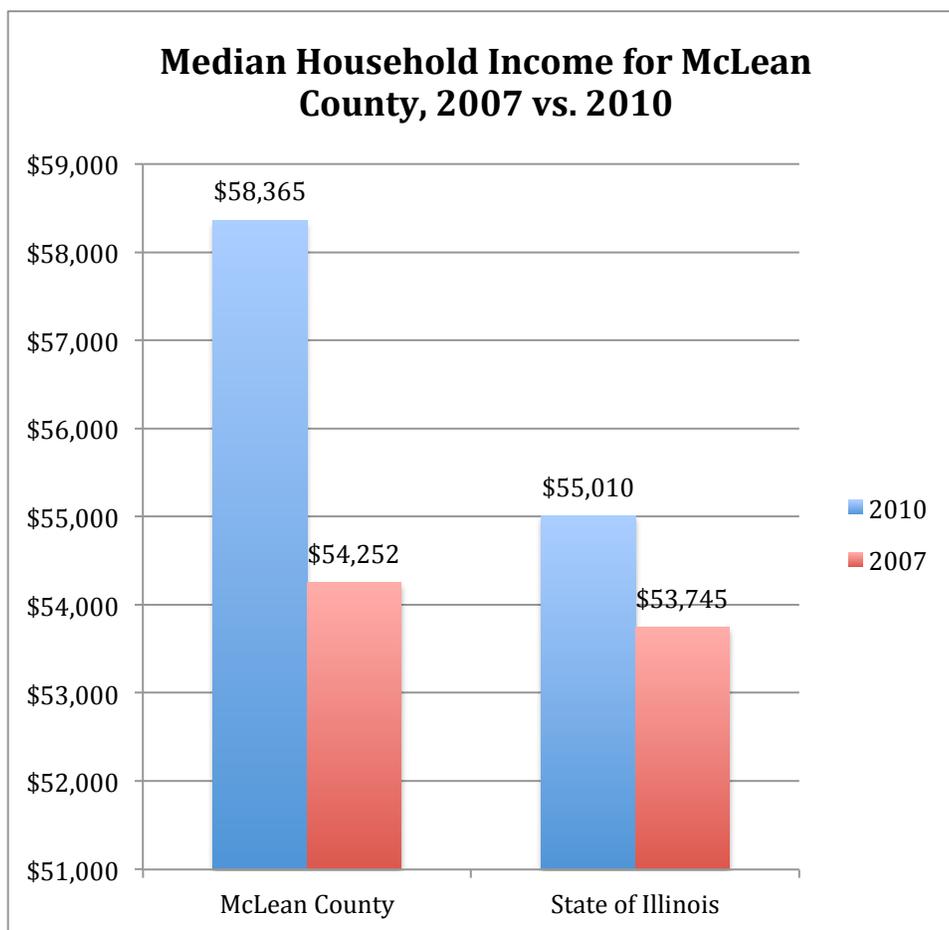
1.4 Economic information

Importance of the measure: Median income divides households into two segments with one half of households earning more than the median income and the other half earning less. Because median income is not significantly impacted by unusually high or low-income values, it is considered to be a more reliable indicator than average income. To live in poverty means to not have enough income to meet one’s basic needs. Accordingly, poverty is associated with numerous chronic social, health, education, and employment conditions.

1.4.1 Median income level

For 2007 and 2010, the median household income in McLean County exceeded the State of Illinois median household income.

Table 1.4.1-1: Median Household Income for McLean County, 2007 vs. 2010

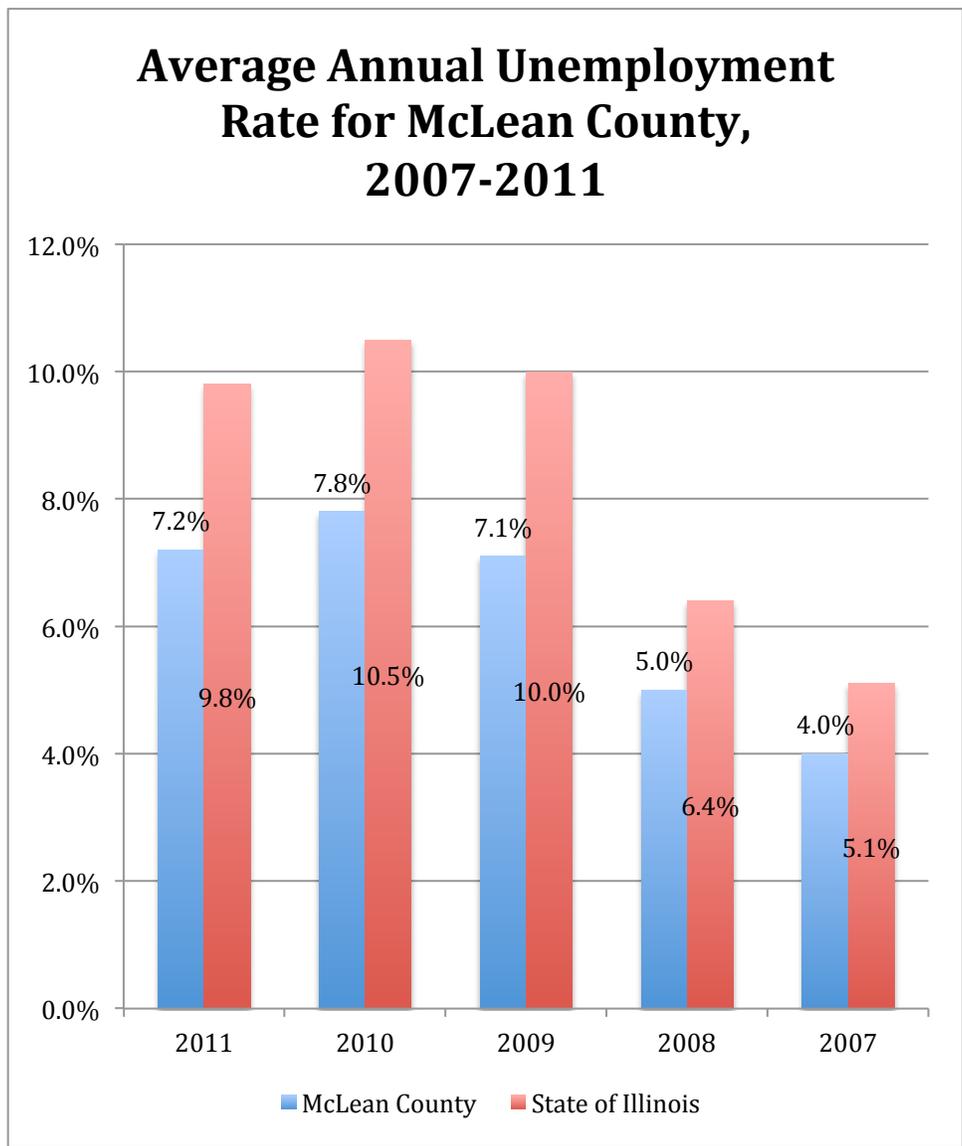


Source: 2007 & 2010 American Community Survey

1.4.2 Unemployment

For the years 2007 to 2011, the McLean County unemployment rate has been lower than the State of Illinois unemployment rate. Between 2008 and 2009, the unemployment increased from 5.0% in 2008 to 7.1% in 2009 and rising to a peak of 7.8% in 2010. Data from 2011 suggests the unemployment rate in McLean County was 7.2% compared to the overall State of Illinois unemployment rate of 9.8%.

Table 1.4.2-1: Average Annual Unemployment Rate for McLean County Region, 2007-2011



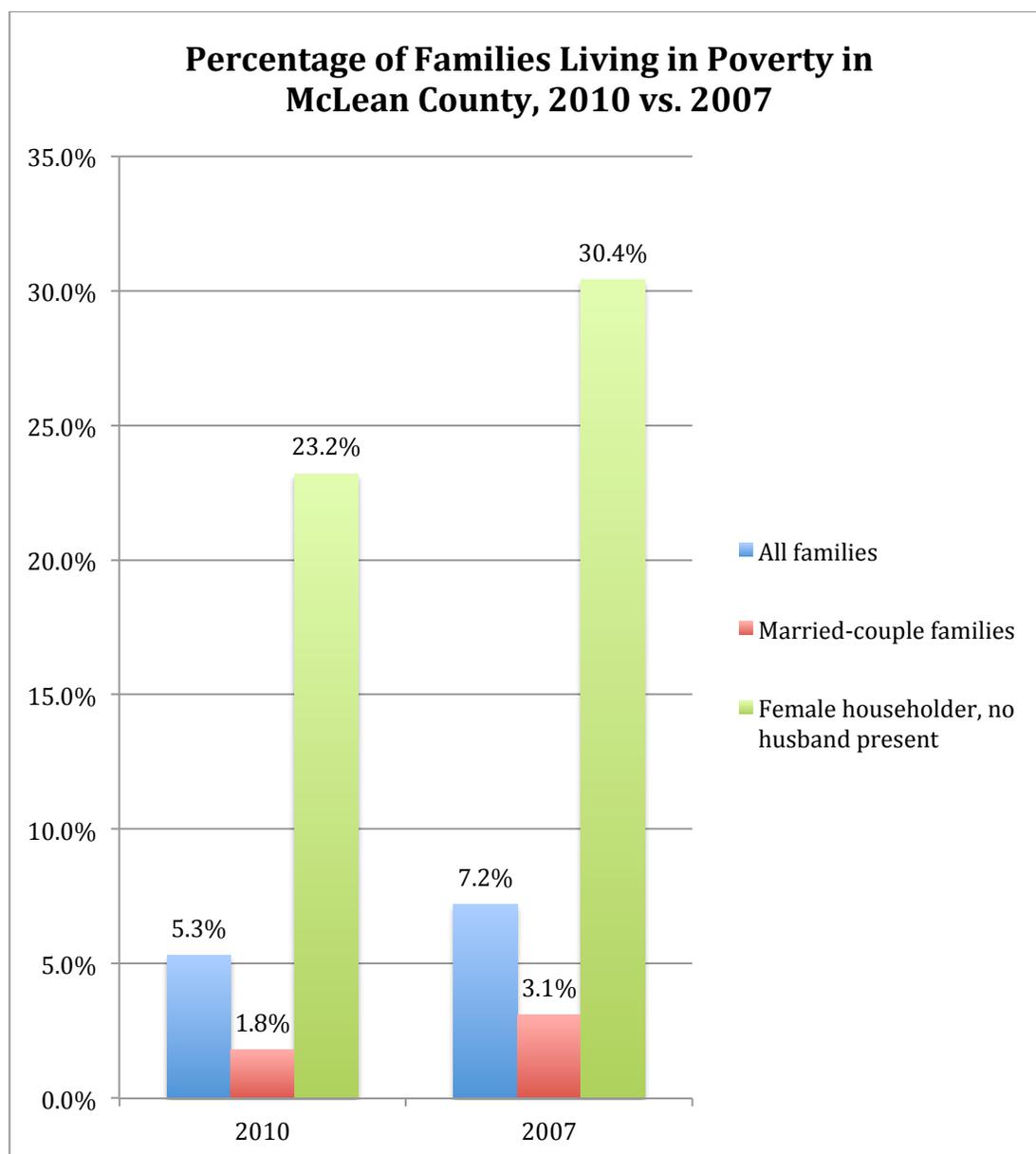
Source: Bureau of Labor Statistics

St. Joseph Medical Center Community Health-Needs Assessment

1.4.3 Families in poverty

Poverty has a significant impact on the development of children and youth. Poverty rates are significantly higher for single-mother led households compared to married-couple families and all families. In McLean County, the percentage of all families, married-couple families, and female-householder families living in poverty decreased between 2007 and 2010.

Table 1.4.3-1: Percentage of Families Living in Poverty in McLean County, 2010 vs. 2007



Source: 2010 and 2007 American Community Survey

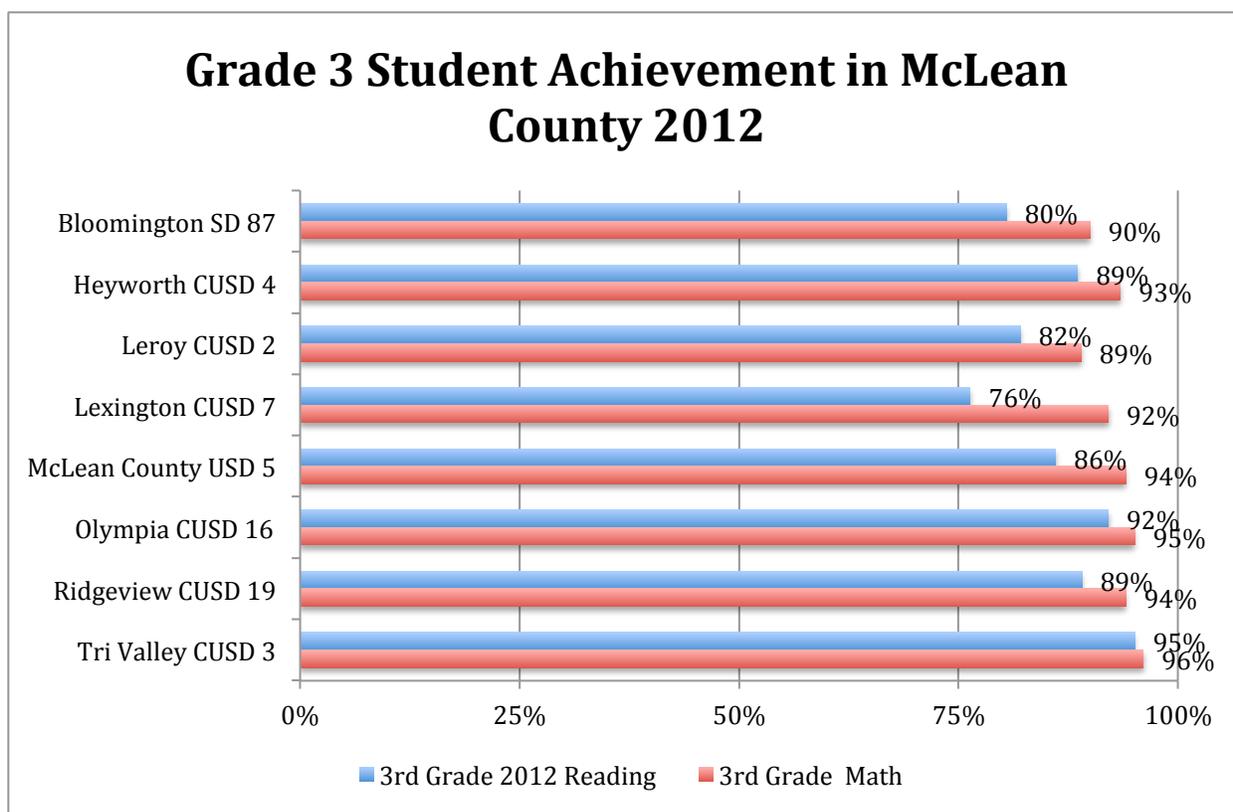
St. Joseph Medical Center Community Health-Needs Assessment

1.5 Education

Importance of the measure: According to the National Center for Educational Statistics, “the better educated a person is, the more likely that person is to report being in ‘excellent’ or ‘very good’ health, regardless of income” (NCES, 2005). Educational attainment and reading/math scores are well researched, with findings strongly related to an individual’s propensity to earn a higher salary, gain better employment, and foster multifaceted success in life. As such, research suggests that the higher the level of educational attainment and the more successful children are in school, the better one’s health will be and the greater likelihood of one selecting healthy lifestyle choices.

1.5.1 3rd/8th grade reading and math

In 2012, nearly all of the school districts in McLean County had higher averages than the State of Illinois averages. However, one district (Lexington) scored lower than the State of Illinois 3rd grade reading average (76.1%).

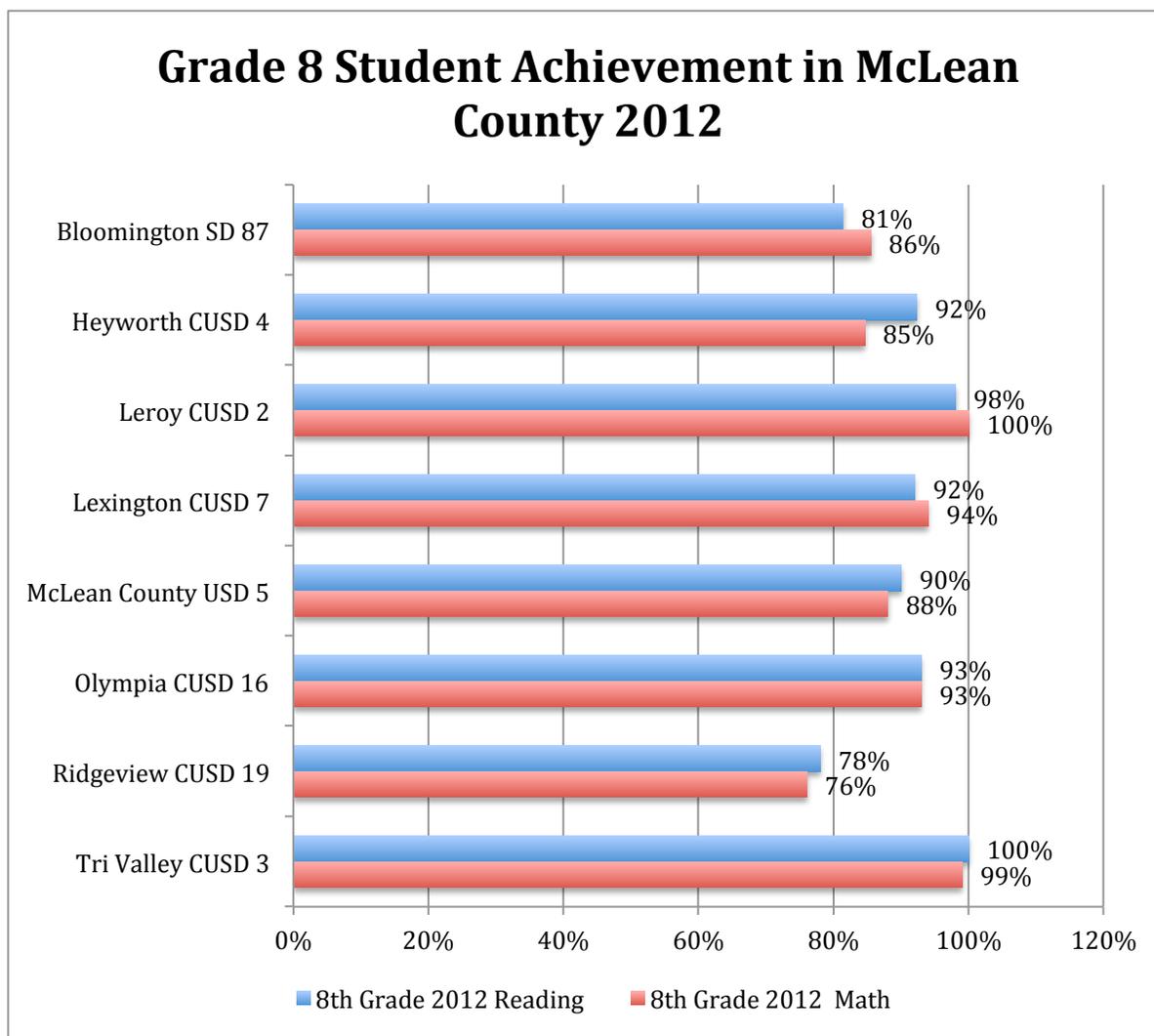
Table 1.5.1-1 Grade 3 Student Achievement in McLean County 2012

Source: Illinois State Board of Education, School Year 2012 District Report Card Summary

St. Joseph Medical Center Community Health-Needs Assessment

Similar to the 3rd grade scores, most of the school districts in McLean County had higher averages than the State of Illinois averages for 8th grade students. However, one district (Ridgeview) scored lower than the State of Illinois 8th grade math average (85.0%) and two districts (Bloomington and Ridgeview) scored lower than the State of Illinois 8th grade reading average (86.2%).

Table 1.5.1-2 Grade 8 Student Achievement in McLean County 2012

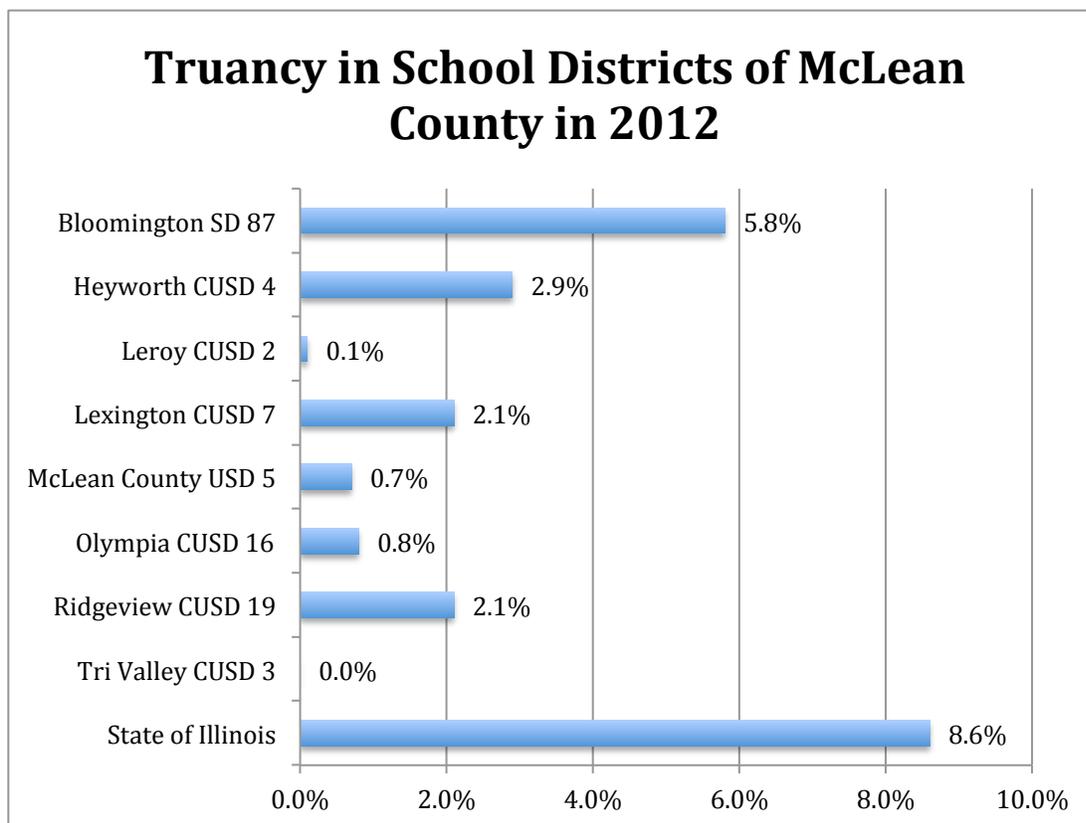


Source: Illinois State Board of Education, School Year 2010 District Report Card Summary

St. Joseph Medical Center Community Health-Needs Assessment

1.5.2 Truancy

Chronic truancy is a major challenge to the academic progress of children and young adults. The causes of truancy vary considerably for young children; however, truancy of middle- and high-school students is more likely a result of the inappropriate behavior and decisions of individual students. Primary school truancy often results from decisions and actions of the parents or caregivers of the children rather than the students. Zero school districts in McLean County exceed the State of Illinois average truancy rate for 2012.

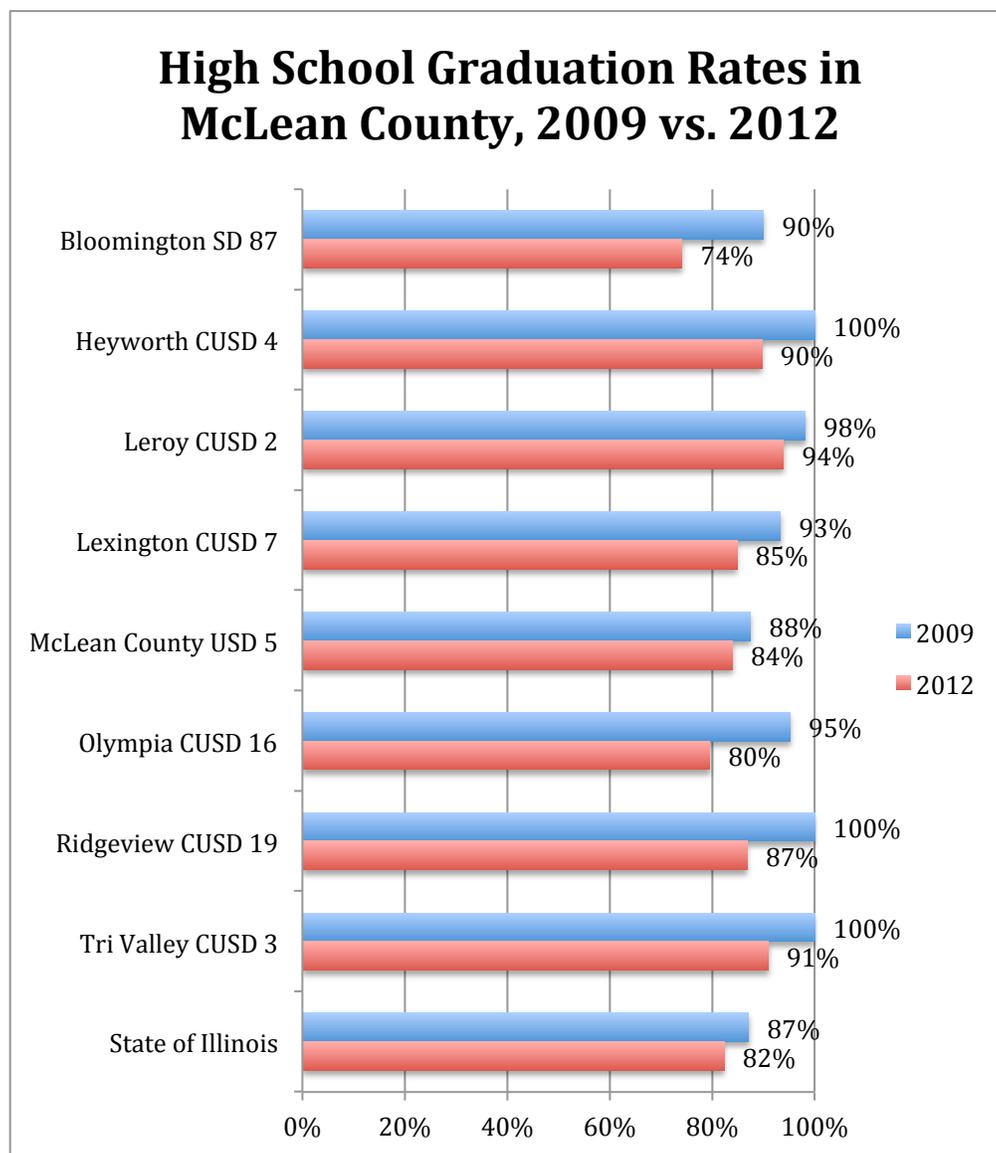
Table 1.5.2-1 Truancy in School Districts of McLean County in 2012

Source: Illinois State Board of Education, School Year 2012 District Report Card Summary

St. Joseph Medical Center Community Health-Needs Assessment

1.5.3 High School graduation rates

High school graduation rates in 2009 and 2012 in McLean County are above the state average (which is 87% and 82% for years 2009 and 2012, respectively), with the exception of Bloomington (2012) and Olympia (2012)

Table 1.5.3-1 High School Graduation Rates in McLean County, 2009 vs. 2012

Source: Illinois State Board of Education, School Year 2009 & 2012 District Report Card Summary

St. Joseph Medical Center Community Health-Needs Assessment

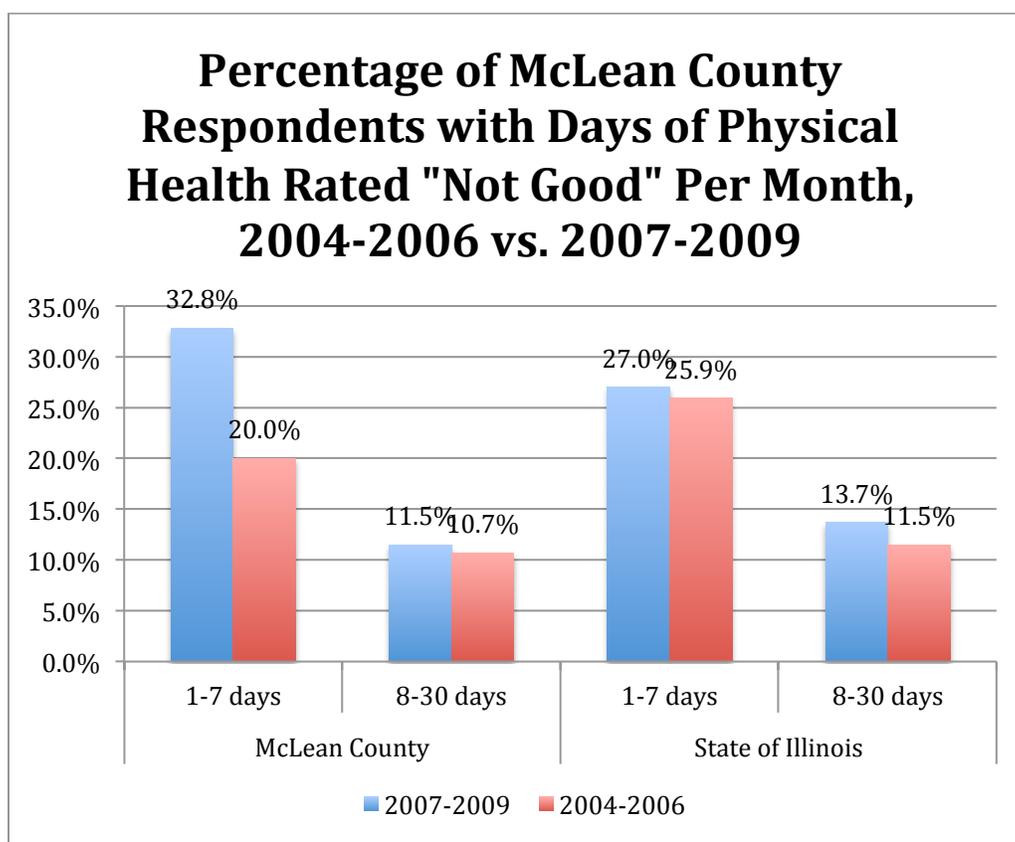
1.6 People with Disabilities

Importance of the measure: According to the US Census Bureau, a disability can be a long-lasting physical, mental or emotional condition. This condition can make it difficult for a person to do activities such as walking, climbing stairs, dressing, bathing, learning, or remembering. This condition can also impede a person from being independent, from being able to go outside the home alone or to work at a job or business. This condition can also impact a person's ability to achieve an education and can influence a person's ability to access appropriate health care.

1.6.1 Physical

Approximately 33% of residents in McLean County reported they had experienced 1-7 days with poor physical health per month between 2007 and 2009. This percentage grew 64% since 2004-2006. With regard to residents experiencing 8-30 days with poor physical health per month, McLean County residents were slightly below the state average for the same time frame, as 11.5% of residents reported poor physical health.

Table 1.6.1-1 Percentage of McLean County Respondents with Days of Physical Health Rated "Not Good" Per Month, 2004-2006 vs. 2007-2009



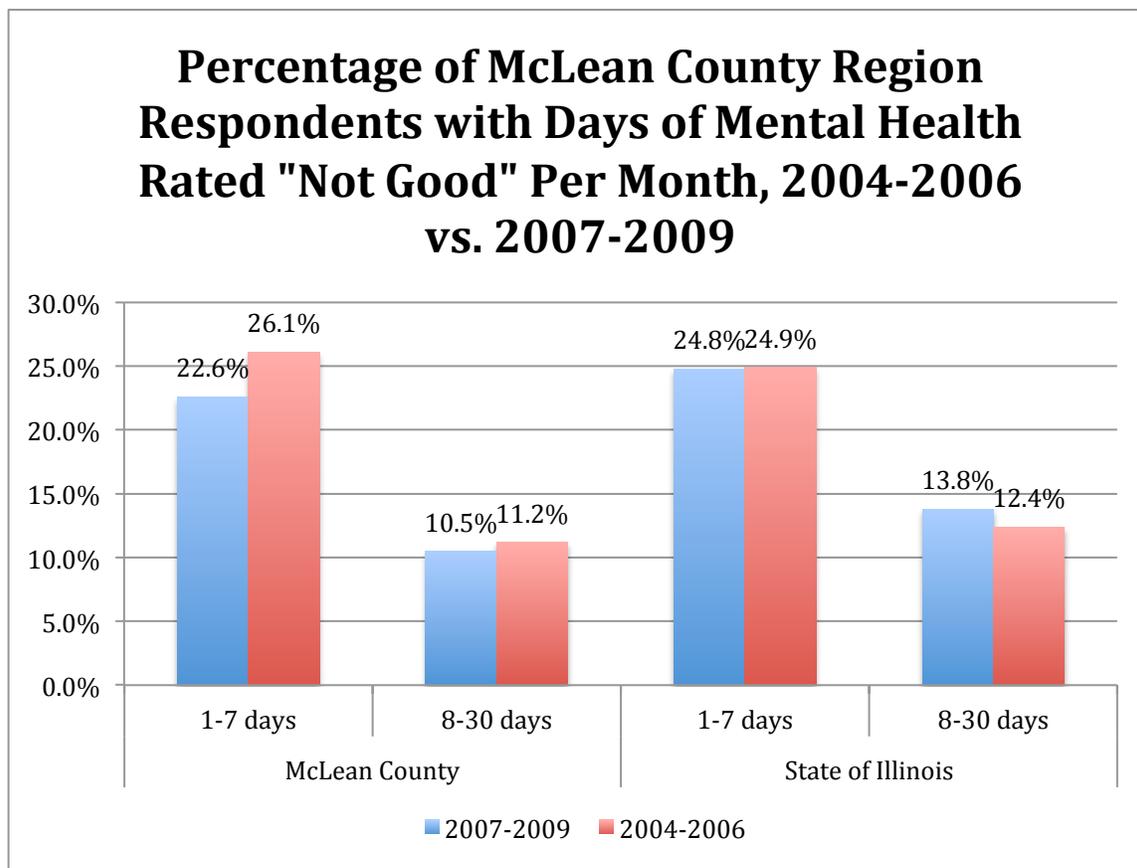
Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

1.6.2 Mental

Approximately 23% of residents in McLean County reported they had experienced 1-7 days with poor mental health per month between 2007 and 2009. For both segments of residents (those experiencing 1-7 days and 8-30 days with poor mental health per month), each was below the state average for the same time frame.

Table 1.6.1-2 Percentage of McLean County Region Respondents with Days of Mental Health Rated "Not Good" Per Month, 2004-2006 vs. 2007-2009



Source: Illinois Behavioral Risk Factor Surveillance System

Demographic Profile: Strategic Implications

Changing demographics and health care:

Recent data in May 2012 from the Kaiser Family Foundation¹ and Congressional Budget Office² suggest that the number of individuals 65 years and older in the United States will increase by one-third between 2012 and 2022. With the changing demographics, it is anticipated an increase in chronic conditions such as diabetes, asthma, and heart disease, and obesity will contribute to the growing cost of health care³. In addition, advances in medical technology and medicine may enable individuals to live longer, thus requiring extensive medical care.

These national trends are prevalent in the State of Illinois and McLean County as seen in Chapter 1. Of particular note, individuals in McLean County aged 60-64 increased from 3.2% to 4.4% between 2007 and 2010 and individuals aged 65-74 increased from 4.9% to 5.4% between 2007 and 2010. Additionally, the median age of individuals in McLean County increased from 30.8 years to 32.0 years between 2007 and 2010.

As individuals age and live with disabilities, it greatly impacts the degree of self-sufficiency and medical care required to maintain satisfactory well-being. With the changing demographics resulting from the aging of baby boomers, it is anticipated McLean County will experience an increase in the number of elderly individuals living with disabilities and chronic conditions.

Educational attainment and health care:

For over two decades, empirical research strongly suggests a positive relationship between education and health^{4,5,6,7} (Adams, 2002; House et. al, 1990; Ross & Wu, 1995; Sander, 1999). The predominant way education impacts better health is through enhancing the decision-making capabilities of an individual. In this way, when an individual is better educated, he or she tends to have a better understanding of symptoms, be better equipped to explain symptoms to a doctor, and make better choices with regard to individual health inputs. Accordingly, more effective treatments and positive outcomes result later in life.

A symbiotic relationship exists between health and education. Consider that healthier children miss fewer days of school and are more "ready to learn." Success in school begins prior to kindergarten as new research on cognitive development shows the importance of health, nutrition, and intellectual stimulation during the first years of life. To be prepared to learn in kindergarten, children need pre-literacy skills. They must also be able to make and keep friends, develop positive relationships with adults, and feel a sense of opportunity and excitement for the world around them. As their child's first teacher, much of this responsibility falls upon parents.

Research tells us the most reliable predictor of educational success for children is whether they are reading at grade level by the end of 3rd grade. Note that according to data presented in Chapter 1, while nearly all school districts are above the State of Illinois averages, Lexington school district scored lower than the State of Illinois 3rd grade reading average.

According to research, a child from a low-income family who completes algebra has virtually the same chance of going to college as a child from an upper-income family who passes the course. Thus, it is not about the math, it's about learning to problem solve.

St. Joseph Medical Center Community Health-Needs Assessment

Economic well-being and health care:

Educational attainment also impacts economic well-being. Research suggests that the more education obtained by individuals, the better jobs these individuals earn⁸. Better jobs yield greater earning and benefits, including health insurance. Furthermore, if educated individuals are unemployed, research suggests that these individuals are unemployed for shorter durations than less educated individuals⁹. For many individuals, insurance coverage is a primary consideration when evaluating whether or not to seek medical treatment. Using health care appropriately, instead of the ER in non-emergencies, is better for patients and lowers cost of health care to society. Accordingly, the uninsured are less likely to access preventive care or seek early treatment of illness and therefore may miss more time at work. Similarly, it is difficult to hold a job when a person is not healthy.

Unemployment leads to poverty and has far-reaching impacts within society. Poverty disproportionately impacts families and children. Fortunately, McLean County has seen percentage of families living in poverty decrease between 2007 and 2010. Additionally, in 2010 the McLean County median household income was greater than the State of Illinois median household income. Finally, early sexual activity can contribute to child poverty. Again, it is fortunate that current rates for births to teenage mothers in McLean County are significantly lower than the State average.

Endnotes for Chapter 1

¹ Kaiser Family Foundation, “Health Care Costs: Key Information on Health Care Costs and Their Impact,” May 2012.

² Congressional Budget Office, *CBO’s 2011 Long-Term Budget Outlook*, June 2011, p.ix, http://www.cbo.gov/ftpdocs/122xx/doc12212/06-21-Long-Term_Budget_Outlook.pdf

³ Kaiser Family Foundation, “Health Care Costs: Key Information on Health Care Costs and Their Impact,” May 2012.

⁴ Adams, S.J. (2002). Educational attainment and health: Evidence from a sample of older adults. *Education Economics*, 10(1), 97-109.

⁵ House, J., Kessler, R., Herzog, A., Mero, R., Kinney, A. & Breslow, M. (1990). Age, socioeconomic status, and health. *The Milbank Quarterly*, 68, 383-411.

⁶ Ross, C. & Wu, C. (1995). The links between education and health. *American Sociological Review*, 60, 719-745.

⁷ Sander, W. (1999). Cognitive ability, schooling, and the demand for alcohol by young adults, *Education Economics*, 7, 53-66.

⁸ Willis, R. (1986). Wage determinants: a survey and reinterpretation of human capital earnings functions. In: Ashenfelter, O. & Layard, R. (Eds). *Handbook of Labor Economics*, Volume I (Amsterdam, North-Holland Publishing Company).

⁹ Moen, E. (1999). Education, ranking, and competition for jobs. *Journal of Labor Economics*, 17, 694-723.

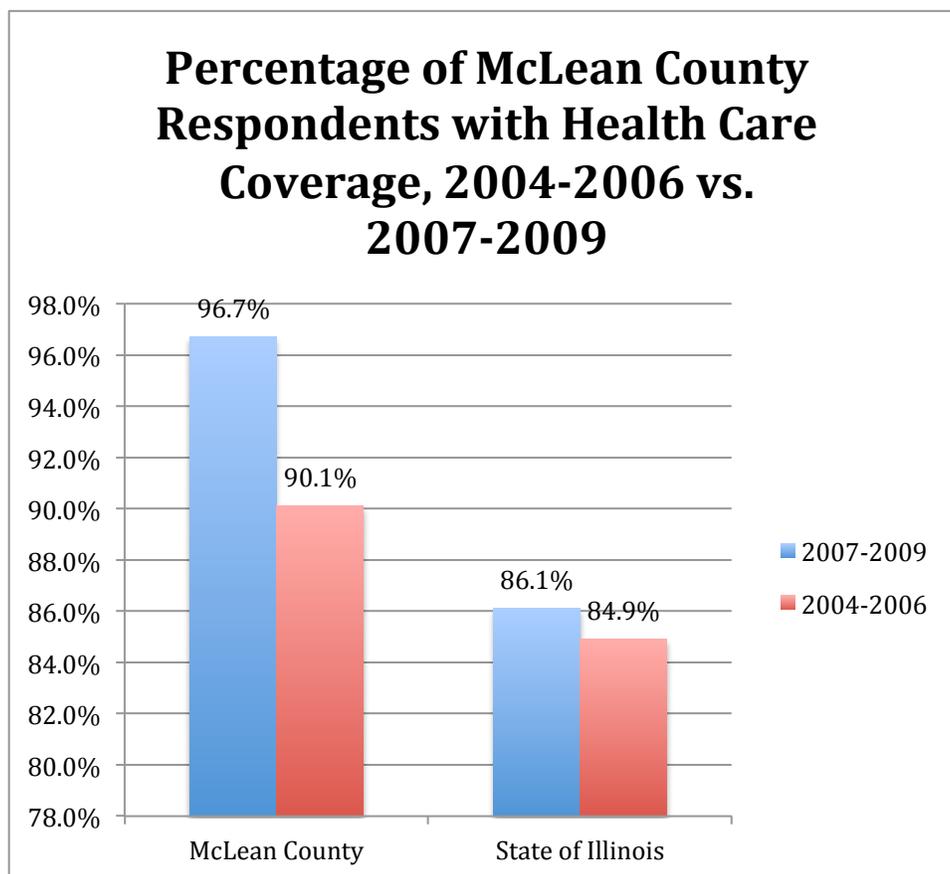
CHAPTER 2. PREVENTION**2.1 Accessibility**

Importance of the measure: It is critical for health care services to be accessible to the constituencies who will take advantage of its benefits. Therefore, accessibility to health care must address both the financial costs associated with health care and the supply and demand of medical services.

2.1.1 Insurance Coverage

With regard to medical insurance coverage, data gathered from the Illinois Behavioral Risk Factor Surveillance System suggest that residents in McLean County possess health care coverage at a higher percentage than the State of Illinois average.

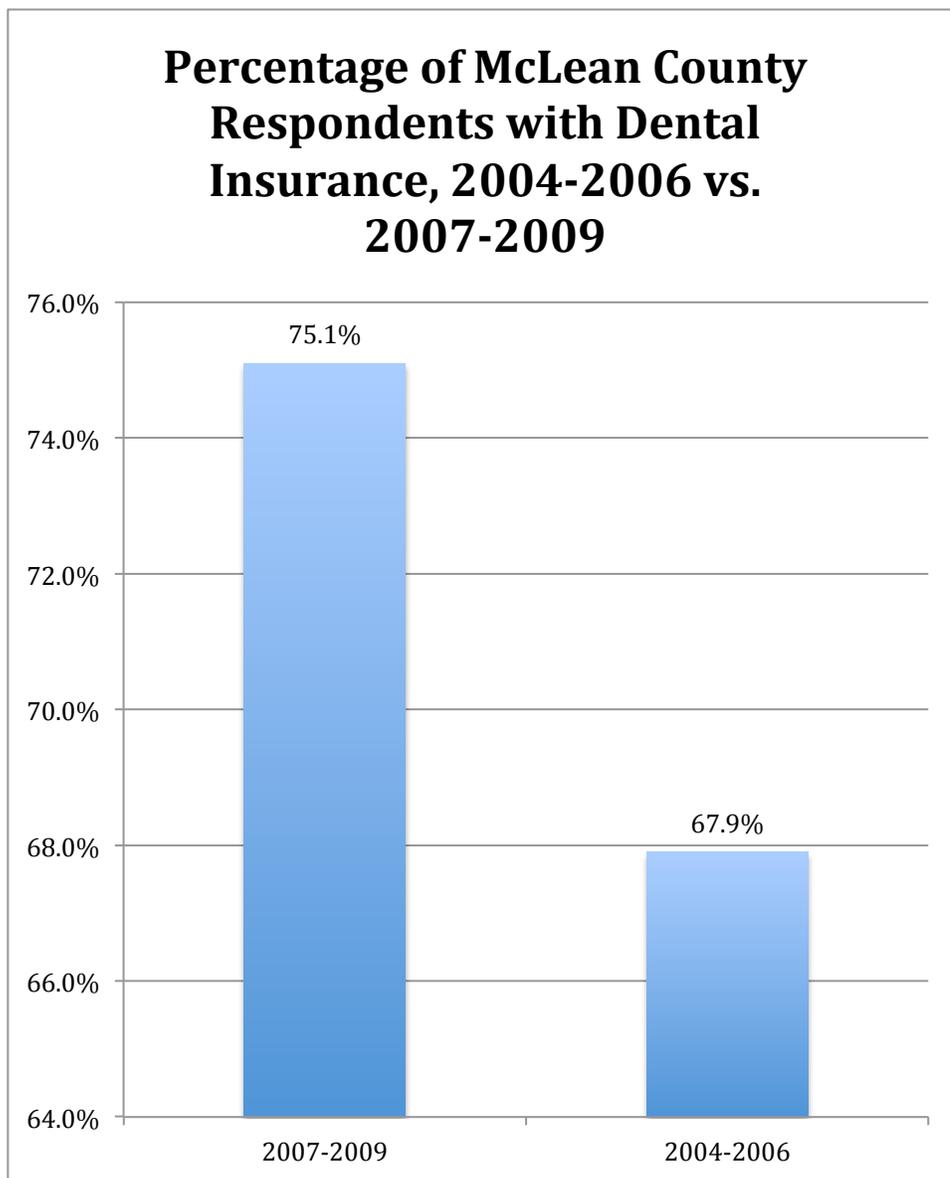
Table 2.1.1-1 Percentage of McLean County Respondents with Health Care Coverage, 2004-2006 vs. 2007-2009



Source: Illinois Behavioral Risk Factor Surveillance System

With regard to dental insurance, the most recent data from the Illinois BRFSS indicate 75.1% of McLean County residents possessed dental insurance coverage in 2007-2009 compared to 67.9% of McLean County residents in 2004-2006.

Table 2.1.1-2 Percentage of McLean County Respondents with Dental Insurance, 2004-2006 vs. 2007-2009

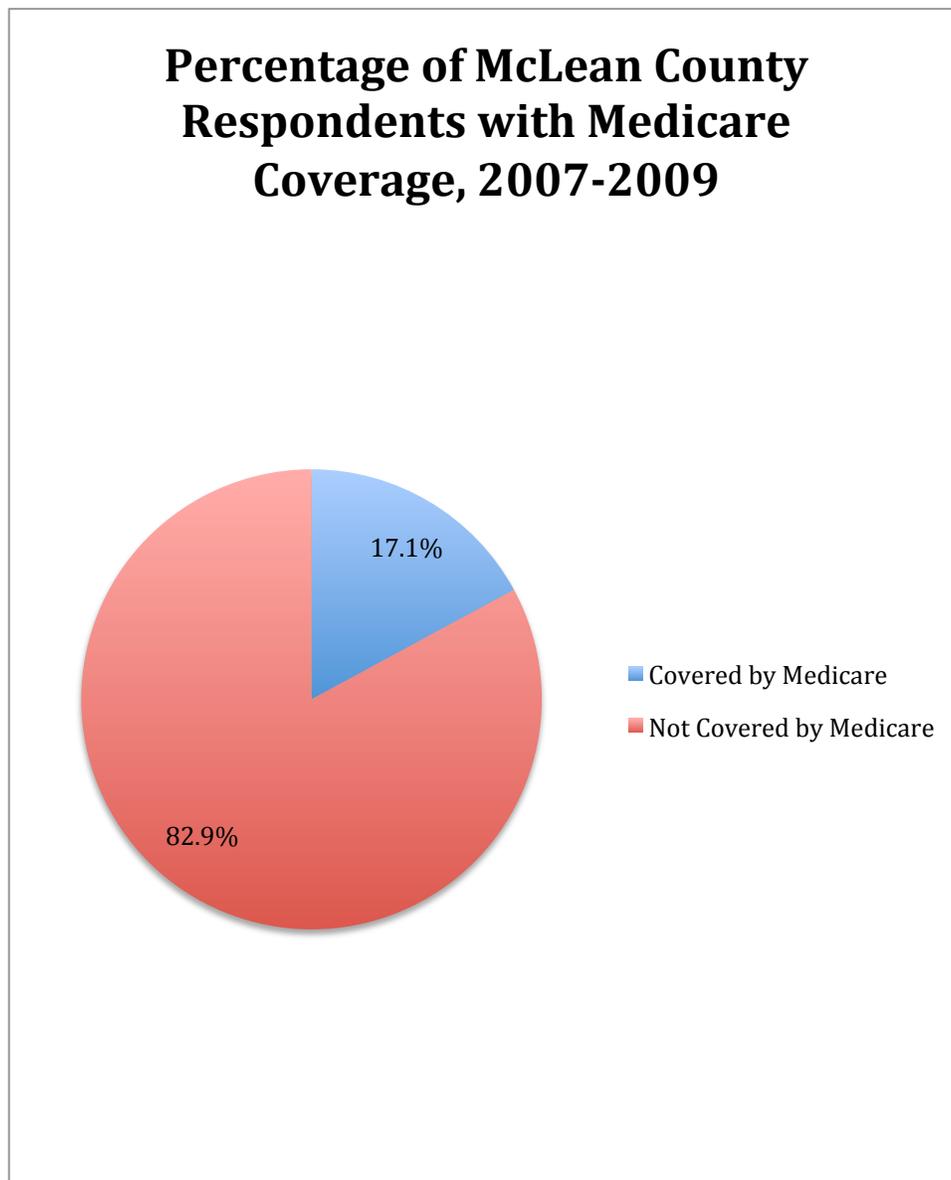


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

With regard to Medicare Coverage, approximately 17% of McLean County residents received Medicare coverage between 2007 and 2009.

Table 2.1.1-3 Percentage of McLean County Respondents with Medicare Coverage, 2007-2009



Source: Illinois Behavioral Risk Factor Surveillance System

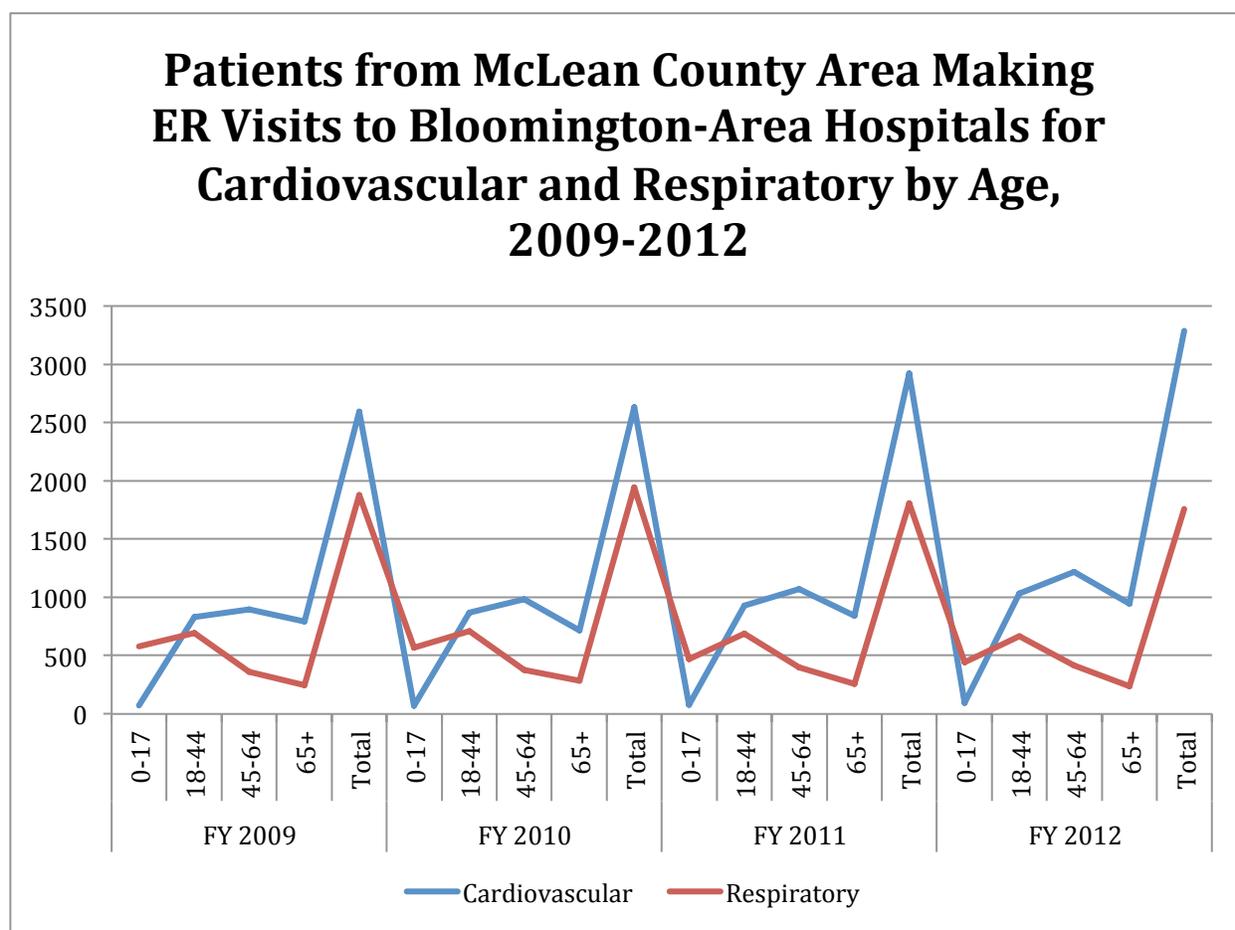
St. Joseph Medical Center Community Health-Needs Assessment

2.1.2 Access and utilization

Physician capacity can be measured using various metrics. One commonly utilized method is to evaluate what percentage of individuals have a usual health care provider. A usual health care provider signifies that these individuals are more likely to partake in wellness check-ups and less likely to utilize emergency room visits as their primary health care service.

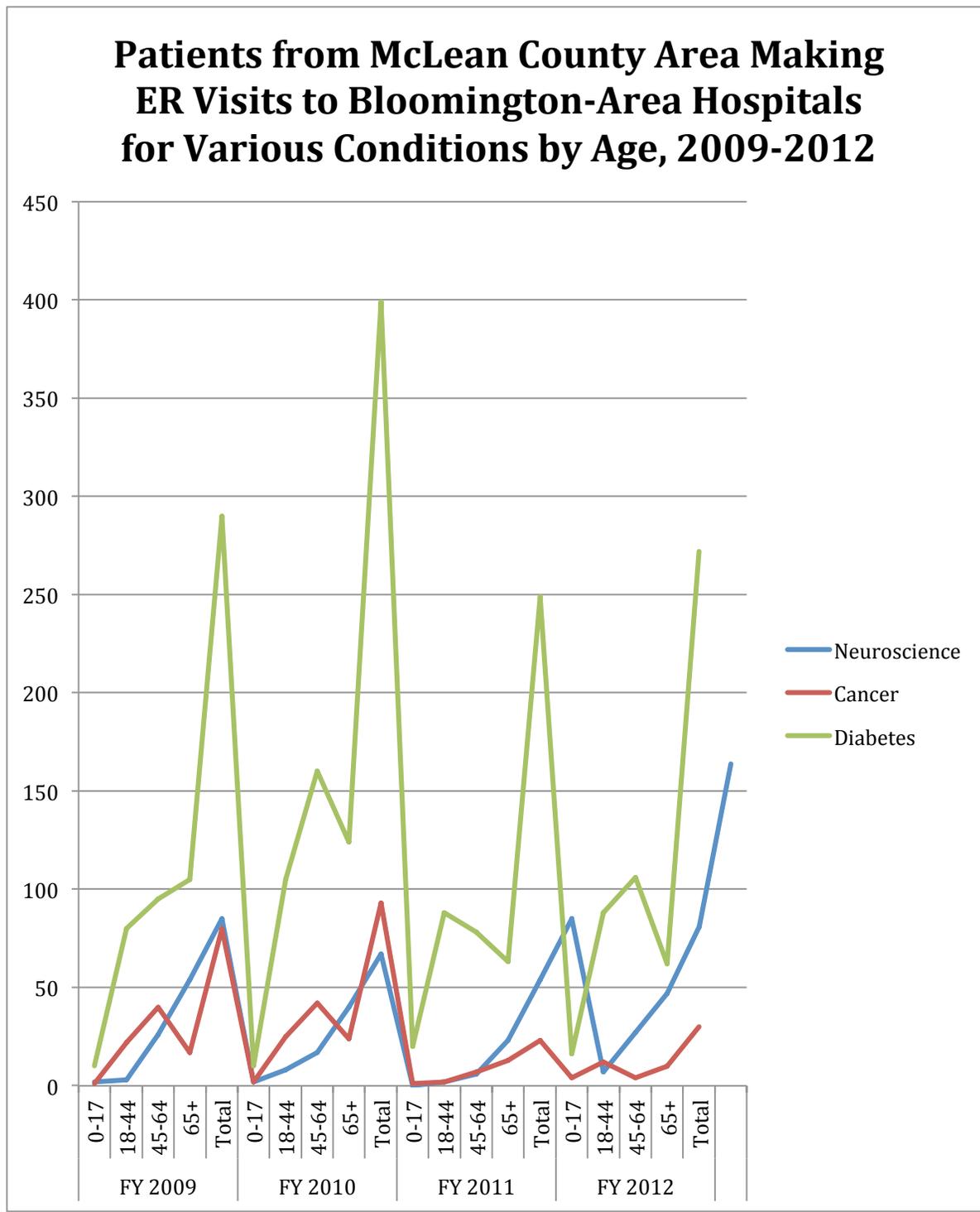
Tables 2.1.2-1 and 2.1.2-2 reflect the number of emergency room visits by condition. Of particular note, the number of emergency room visits for cardiovascular conditions has increased for the Bloomington-area hospital (defined as OSF/St. Joseph Medical Center and Advocate BroMenn Medical Center) by 27% between 2009 and 2012. Note however that as of 2010, Prompt Care was no longer counted as ER visits. It now falls under physician office visits. This may impact year-to-year changes, so growth rates should be interpreted with caution.

Table 2.1.2-1 Patients from McLean County Area Making ER Visits to Bloomington-Area Hospitals for Cardiovascular and Respiratory by Age, 2009-2012



Source: COMPData 2012

Table 2.1.2-2 Patients from McLean County Area Making ER Visits to Bloomington-Area Hospitals for Various Conditions by Age, 2009-2012

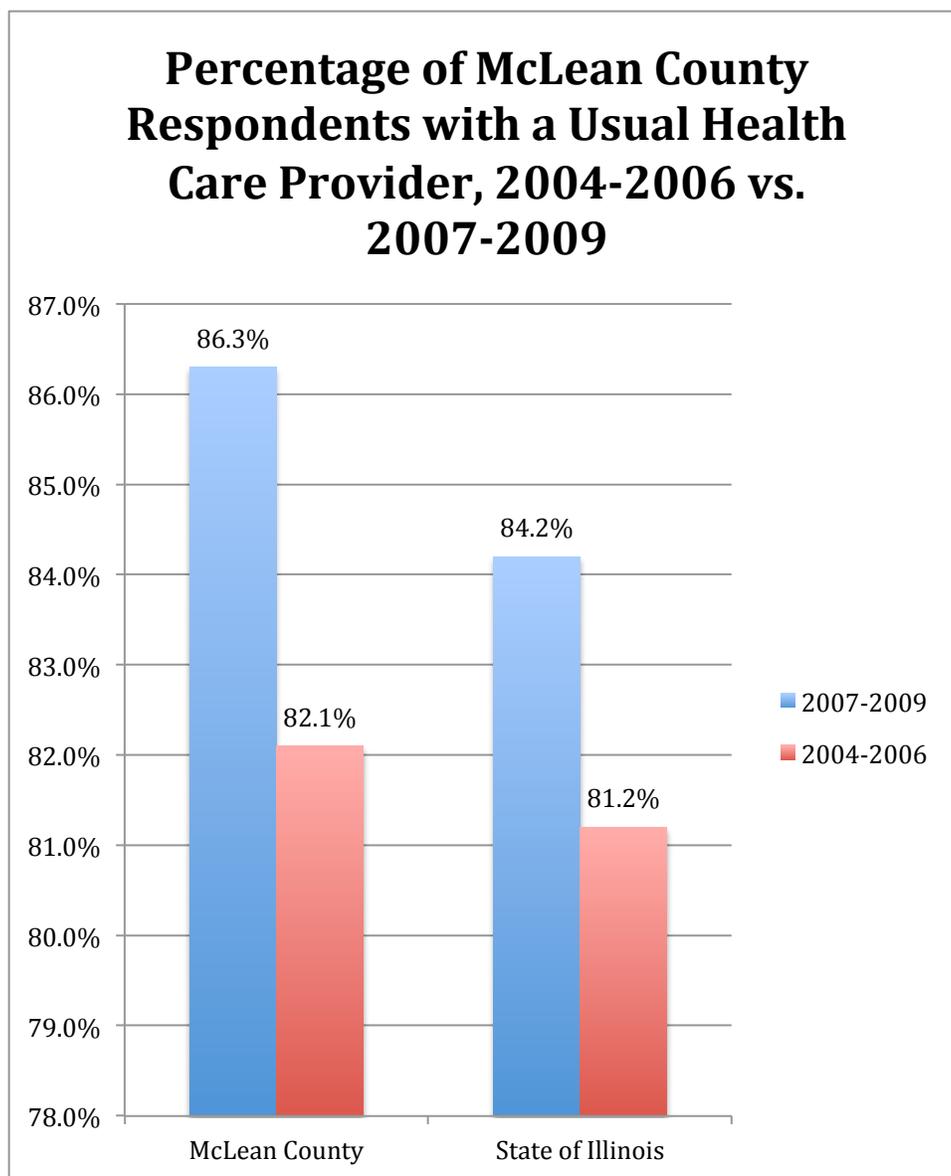


Source: COMPData 2012

St. Joseph Medical Center Community Health-Needs Assessment

In McLean County, the most recent data indicate approximately 86% of residents utilize a regular health care provider. Between 2004-2006 and 2007-2009, the percentage of residents in McLean County reporting a usual health care provider increased by 4.2%. Similarly, the percentage of State of Illinois residents increased by 3.0% during the same time frame.

Table 2.1.2-3 Percentage of McLean County Respondents with a Usual Health Care Provider, 2004-2006 vs. 2007-2009

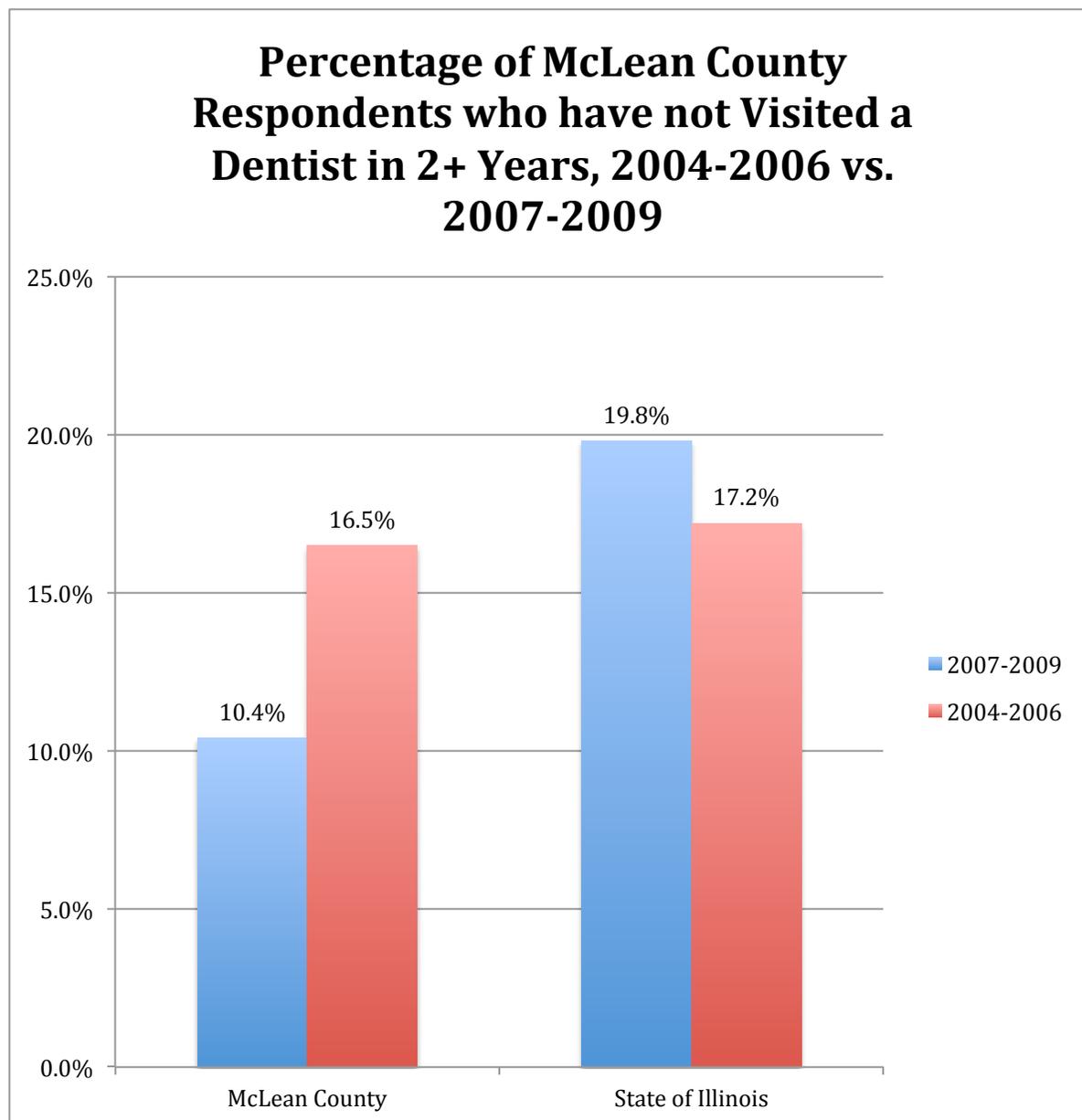


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

Another metric to gain insight into the capacity of physicians is the percentage of residents who have not visited physicians within two years. With regard to the capacity of dentists, McLean County is significantly better than the State of Illinois average for 2007-2009. Furthermore, McLean County denoted negative growth in the percentage of respondents who have not visited a dentist in two or more years, as 10.4% of McLean County residents have not visited a dentist in 2 or more years.

Table 2.1.2-4 Percentage of McLean County Respondents who have not Visited a Dentist in 2+ Years, 2004-2006 vs. 2007-2009



Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

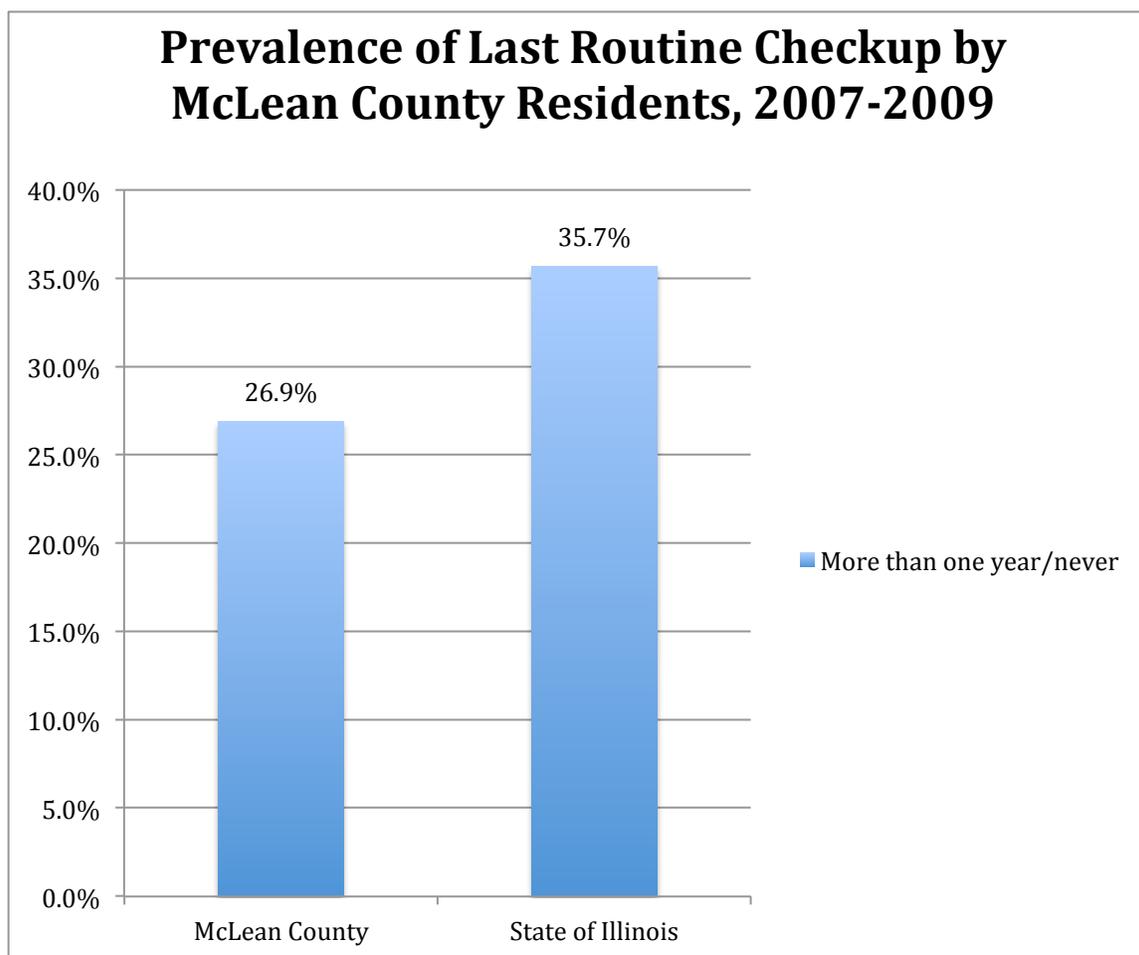
2.2 Wellness

Importance of the measure: Preventative health care measures, including scheduling routine well-visits, engaging in a healthy lifestyle, and undertaking screenings for diseases, are essential to combating morbidity and mortality and help reduce health care costs.

2.2.1 Check up

Numerous health problems can be minimized when detected early. Therefore regularly scheduled routine checkups can be very important. According to the latest data from the Illinois BRFSS, 73.1% of residents in McLean County report having had a routine checkup within the last year. In addition, 26.9% of McLean County residents report that it has been more than one year since their last check-up or they have never had one.

Table 2.2.1-1: Prevalence of Last Routine Checkup by McLean County Residents, 2007-2009



Source: Illinois Behavioral Risk Factor Surveillance System

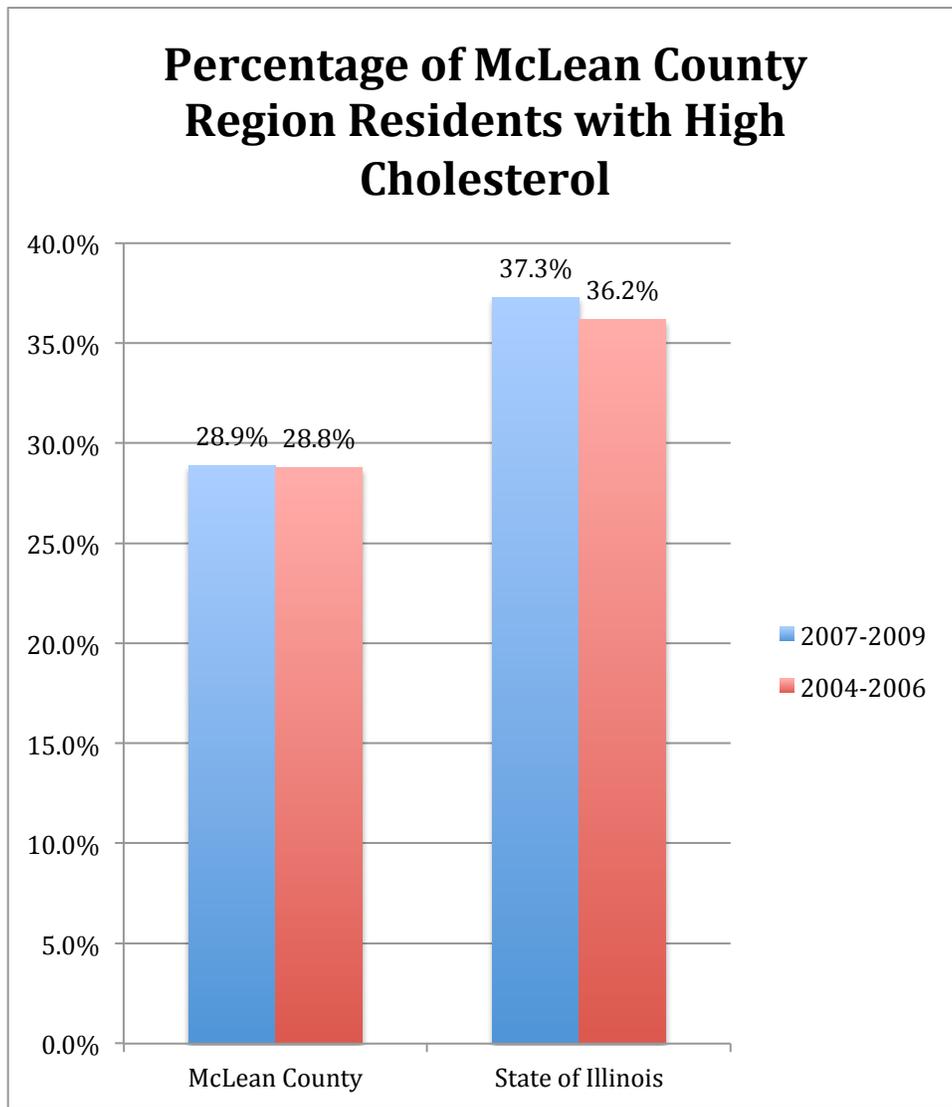
St. Joseph Medical Center Community Health-Needs Assessment

2.2.2 Early detection

Residents in McLean County report varying prevalence of high cholesterol. The percentage of residents who report they have high cholesterol is lower in McLean County (28.9%) than the State of Illinois average of 37.3%.

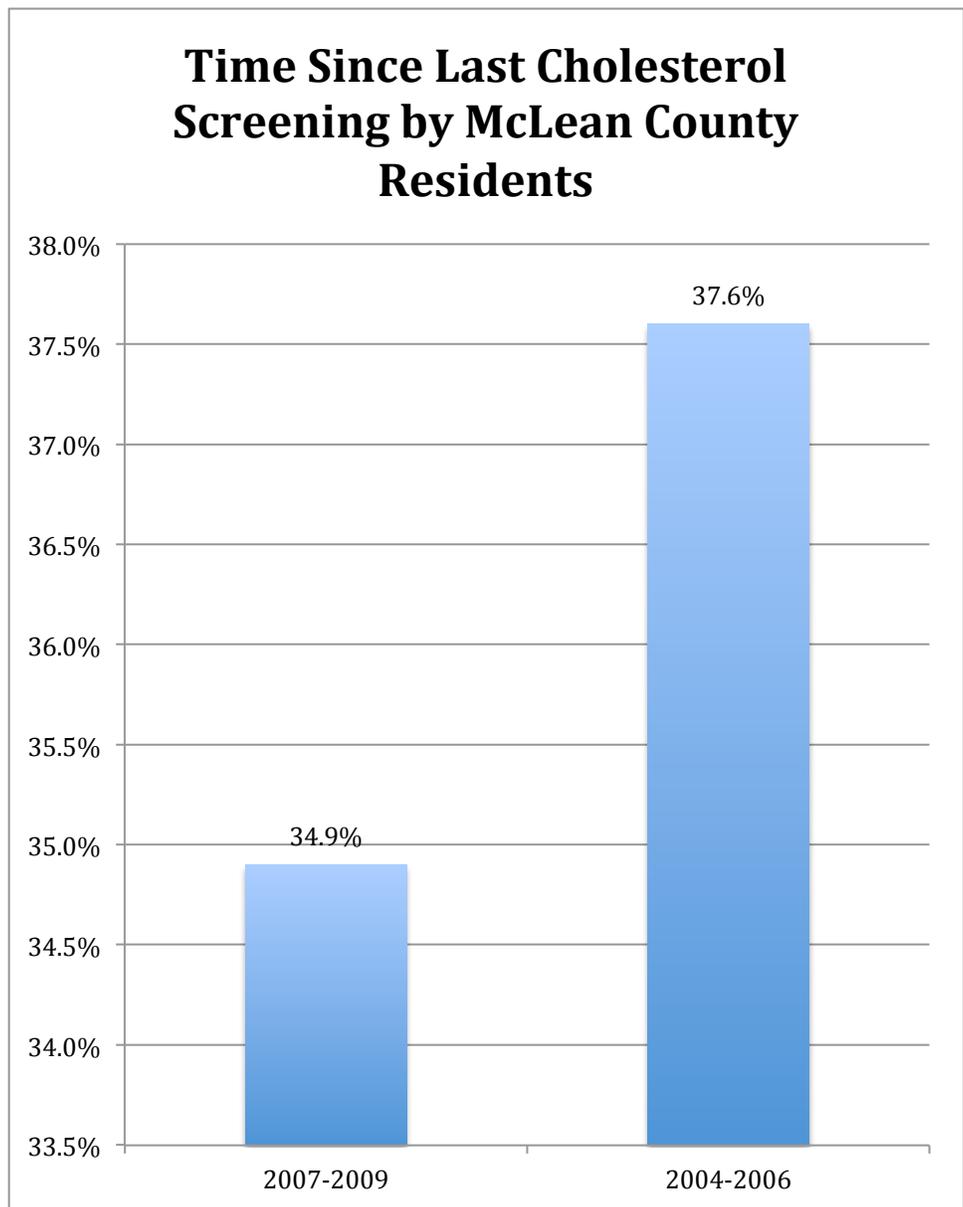
In addition, 65.1% of residents in McLean County report having had a cholesterol screening within the last year. These data for 2007-2009 are lower than the State of Illinois average of 68.4%.

Table 2.2.2-1: Percentage of McLean County Region Residents with High Cholesterol



Source: Illinois Behavioral Risk Factor Surveillance System

Table 2.2.2-2: Time Since Last Cholesterol Screening by McLean County Residents



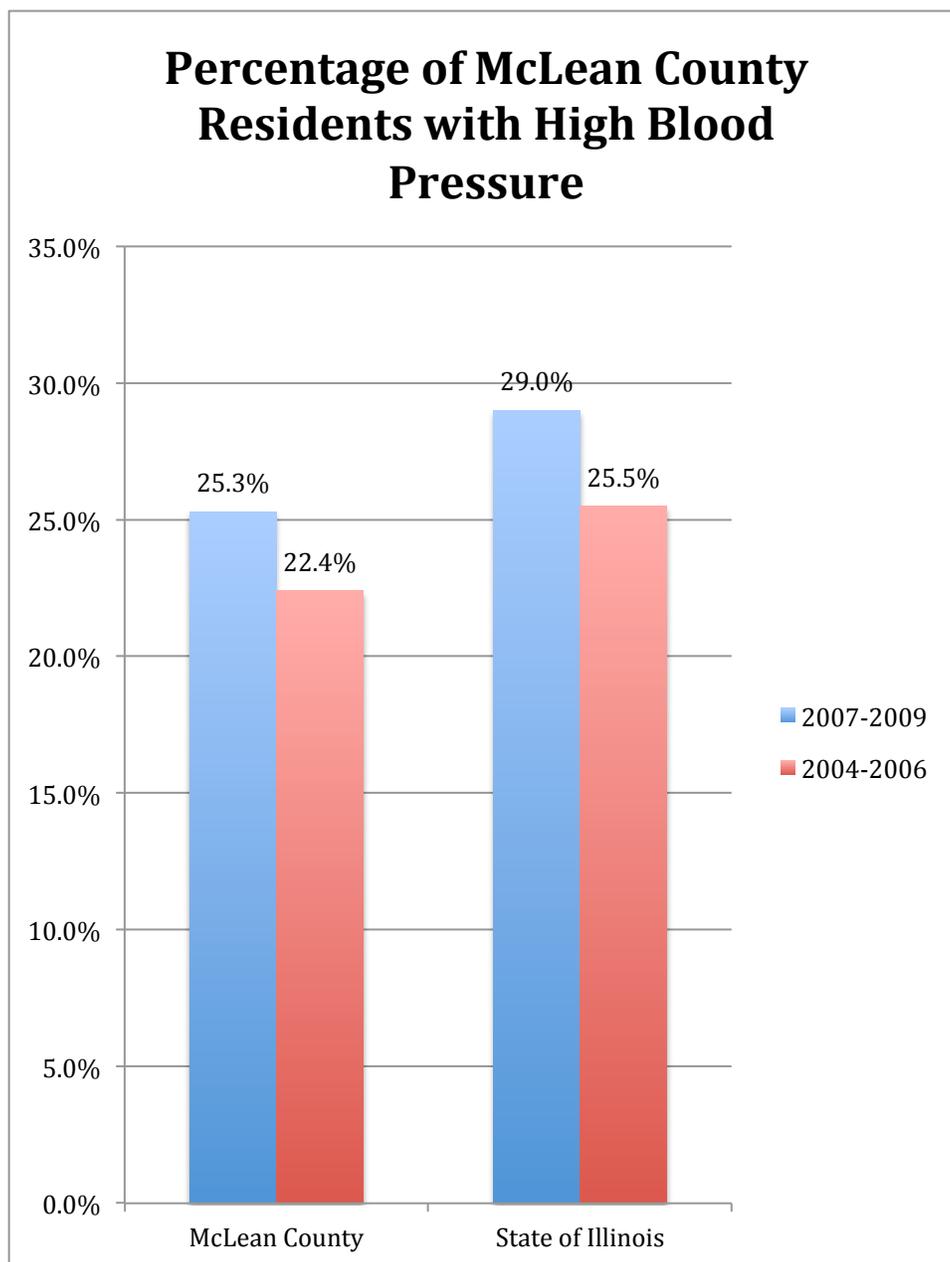
Note: Duration of time is “greater than 1 year” or “never”

Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

With regard to high blood pressure, the residents in McLean County report a lower percentage of individuals with high blood pressure than residents in the State of Illinois as a whole for 2007-2009 and 2004-2006.

Table 2.2.2-3: Percentage of McLean County Residents with High Blood Pressure

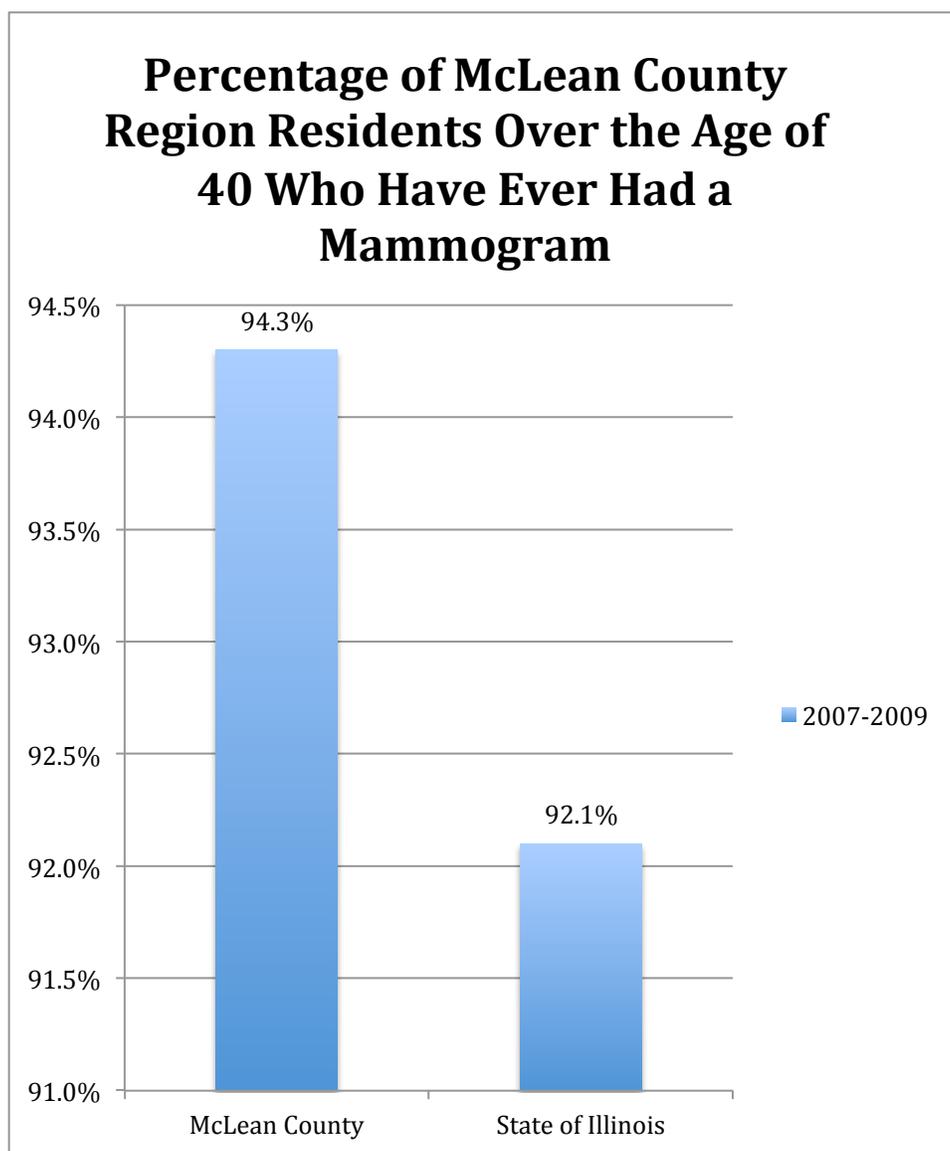


Source: Illinois Behavioral Risk Factor Surveillance System

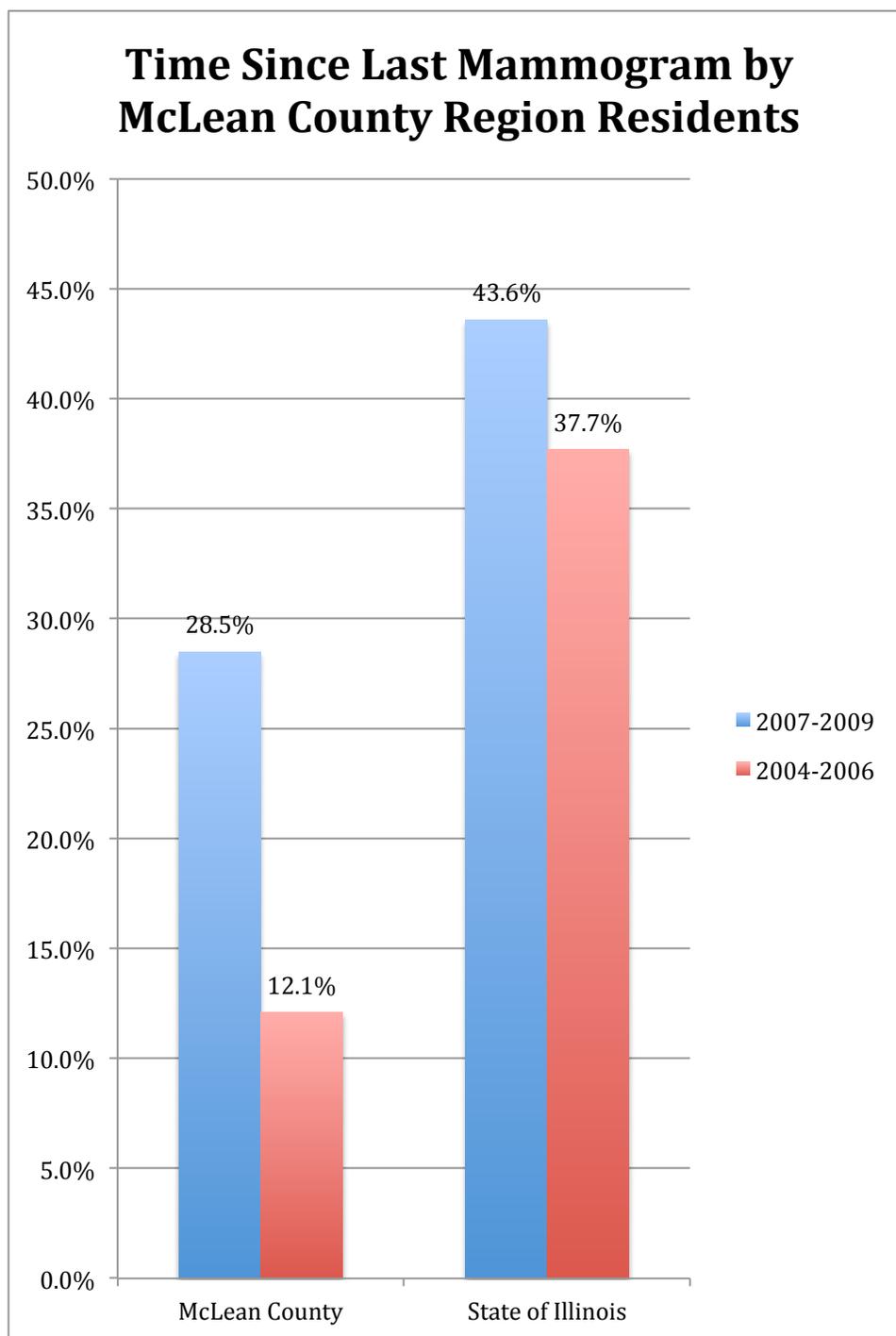
Mammograms and PSA tests help to screen individuals for breast and prostate cancers. With regard to mammograms, 94.3% of individuals over the age of 40 in McLean County report that they have had a mammogram at some point in their life. These data are higher than the State of Illinois average of 92.1%.

With regard to the time elapsed since one's last mammogram, nearly 72% of residents from McLean County reported they had had a mammogram within one year or less. This statistic is significantly better than the State of Illinois average (56.4%).

Table 2.2.2-4 Percentage of McLean County Region Residents Over the Age of 40 Who Have Ever Had a Mammogram



Source: Illinois Behavioral Risk Factor Surveillance System

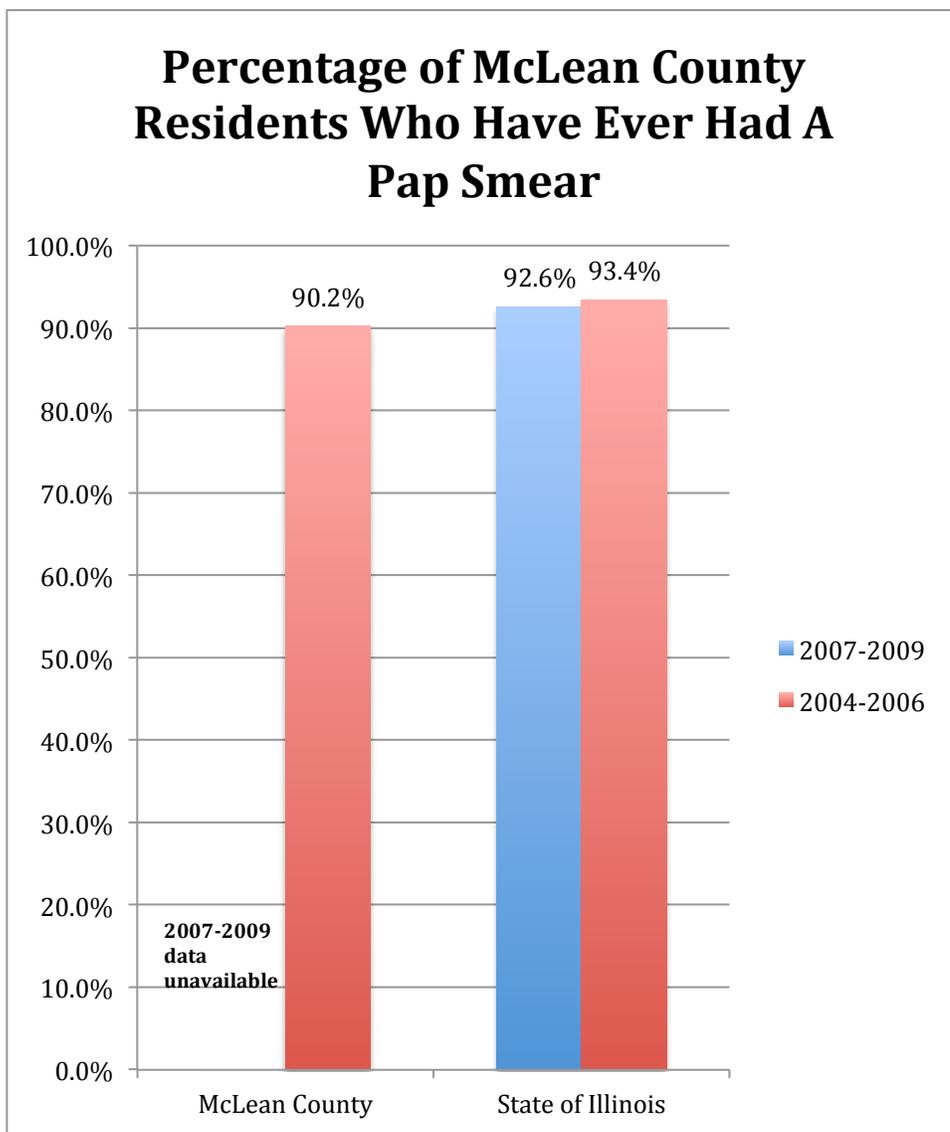
Table 2.2.2-5 Time Since Last Mammogram by McLean County Region Residents

Note: Duration of time is “greater than 1 year” or “never”

Source: Illinois Behavioral Risk Factor Surveillance System

Research suggests pap smears are important in detecting pre-cancerous cells in the uterus and cervix. Data from the 2004-2006 Illinois BRFSS indicate that 90.2% of McLean County residents have ever had a pap smear. These percentages are slightly lower than the State of Illinois average (93.4%).

Table 2.2.2-6 Percentage of McLean County Residents Who Have Ever Had Pap Smear

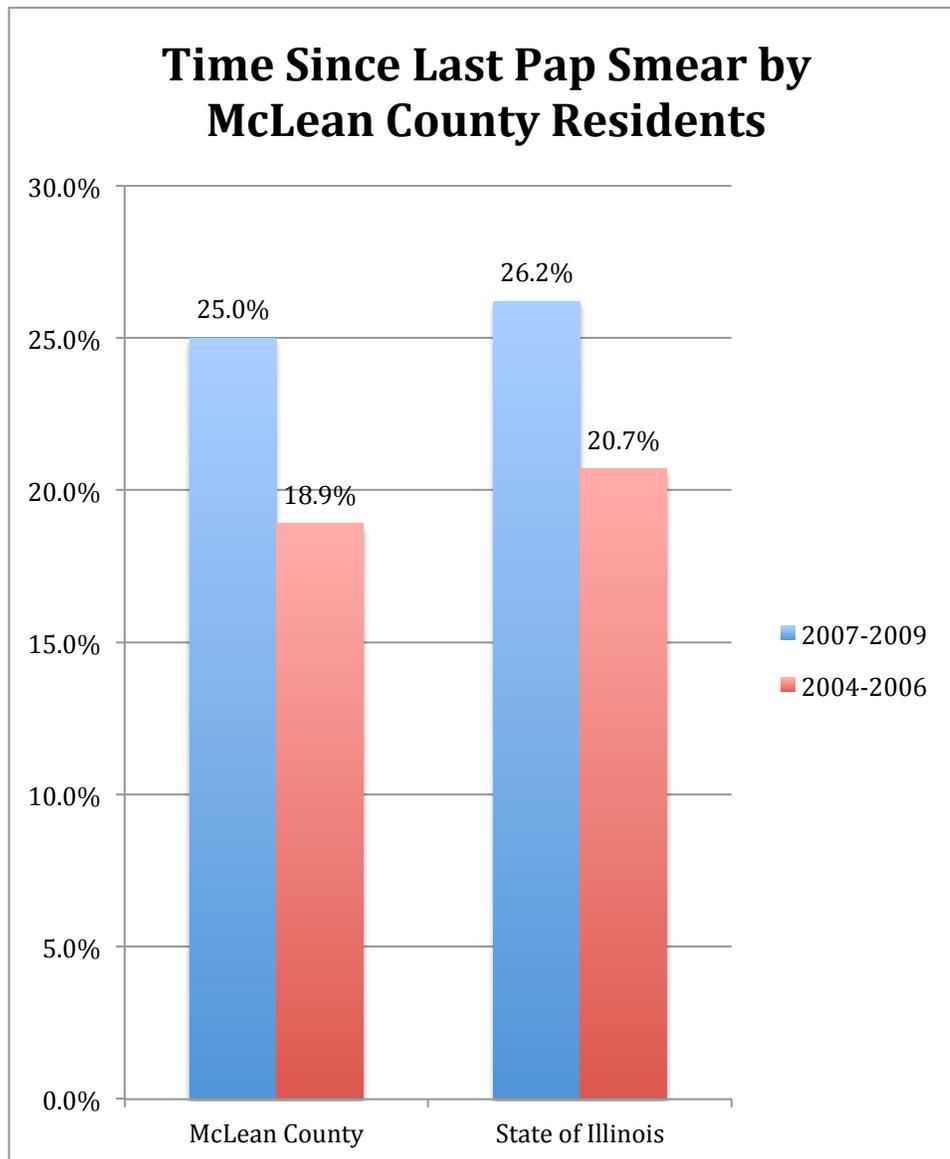


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

With regard to the time elapsed since one's last pap smear, residents from McLean County reported a increase of 6.1 percentage points between 2004-2006 and 2007-2009 for greater than 1 year elapsing between pap smears with 25.0% of residents indicating 1 year or more between pap smears.

Table 2.2.2-7 Time Since Last Pap Smear by McLean County Residents



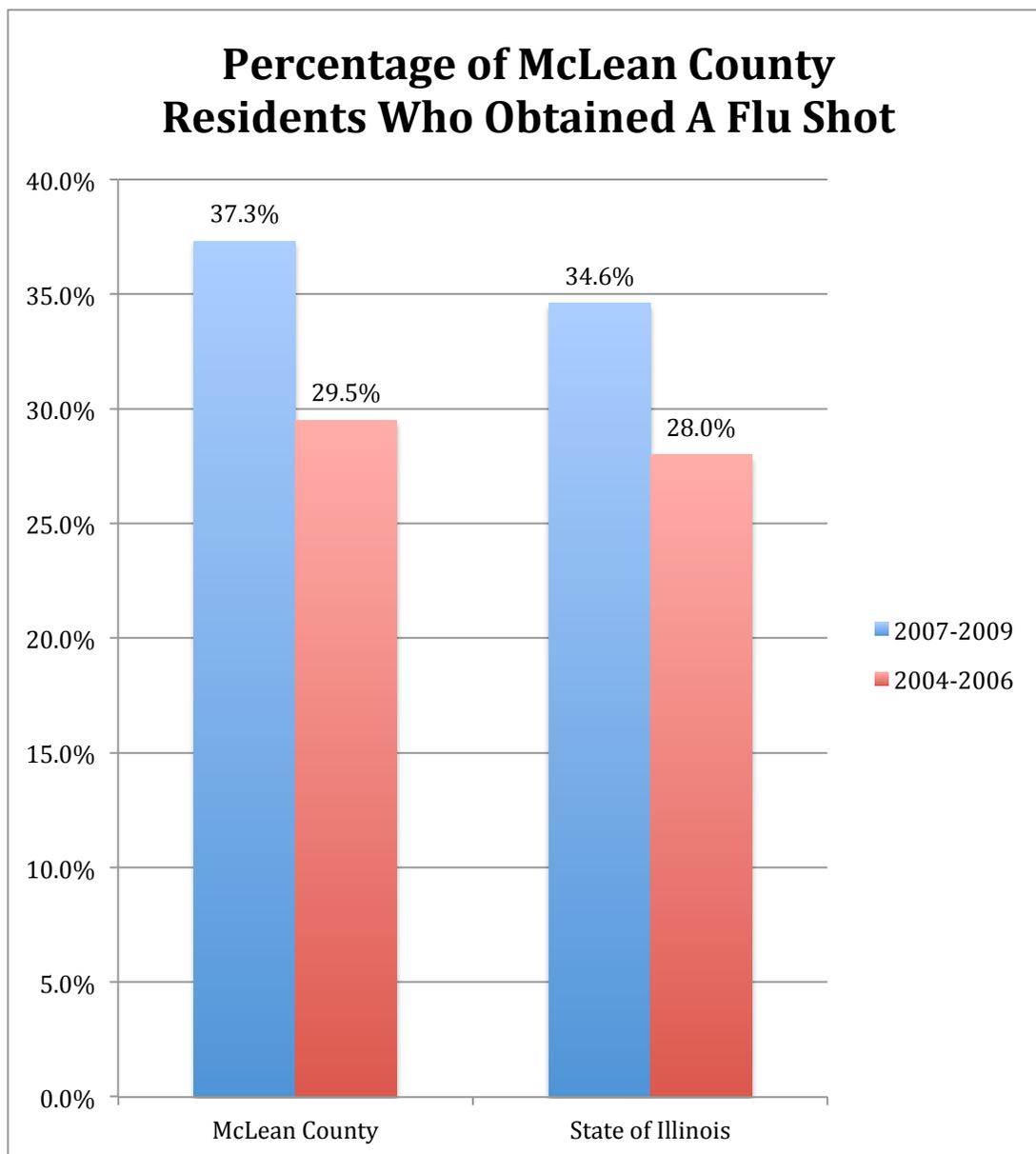
Note: Duration of time is "greater than 1 year" or "never"

Source: Illinois Behavioral Risk Factor Surveillance System

2.2.3 Immunizations

The overall health of a community is impacted by preventative measures including immunizations and vaccinations. The percentage of people who have had a flu shot in the past year is approximately 35% for both McLean County as well as the State of Illinois, although the McLean County average is higher than the state. While the State of Illinois experienced positive percentage growth of 24% between 2004-2006 and 2007-2009, McLean County experienced positive percentage growth of 26% in the percentage of residents who obtained a flu shot.

Table 2.2.3-1 Percentage of McLean County Residents Who Obtained A Flu Shot

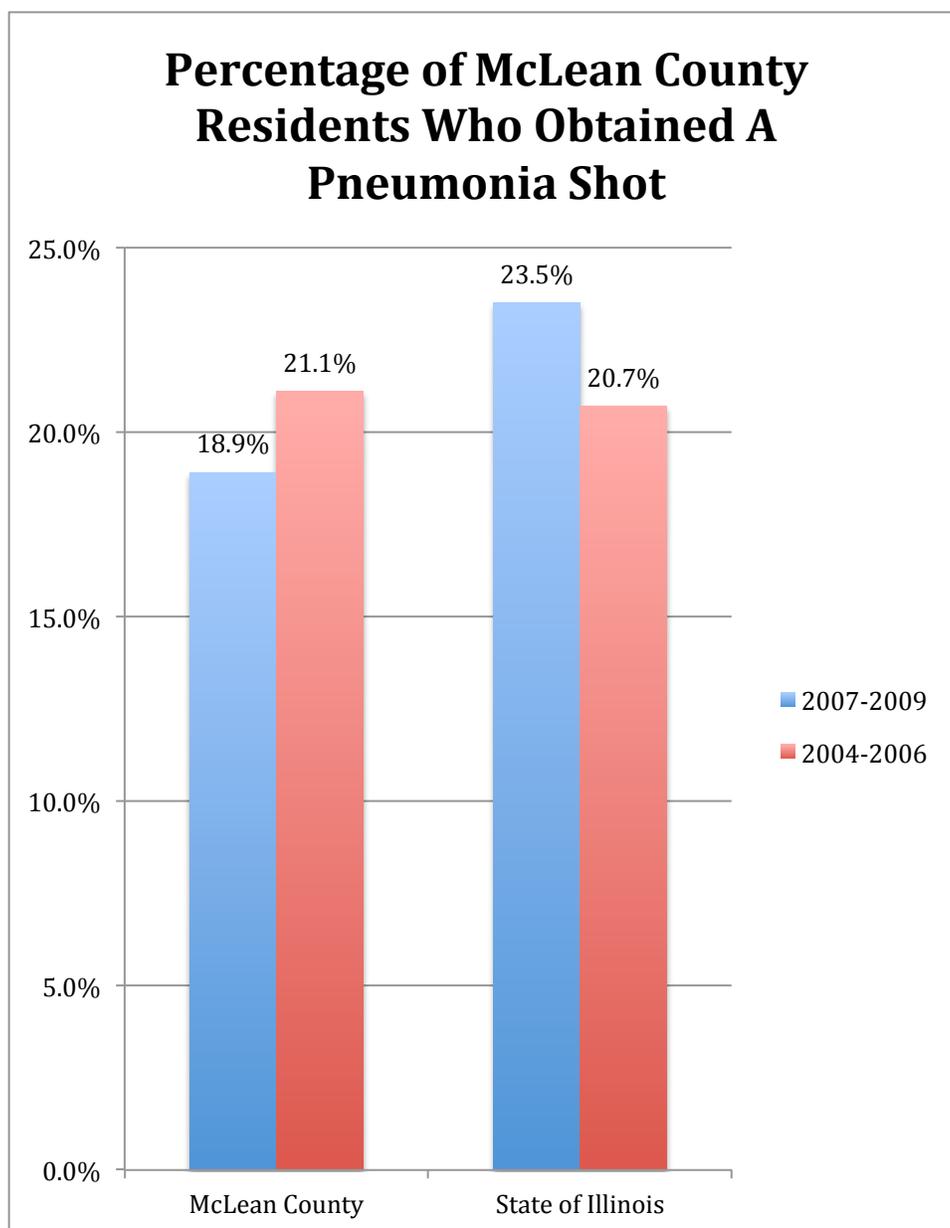


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

There was 10% negative growth in the percentage of McLean County residents reporting they had ever received a pneumonia shot between 2006 (21.1%) and 2009 (18.9%). For comparison, there was a 14% growth in the percentage of Illinois residents reporting they had ever received a pneumonia shot between 2006 (20.7%) and 2009 (23.5%). Compared to the State of Illinois average (23.5%), a lower percentage of McLean County residents (18.9%) receive pneumonia shots.

Table 2.2.3-2 Percentage of McLean County Residents Who Obtained A Pneumonia Shot



Source: Illinois Behavioral Risk Factor Surveillance System

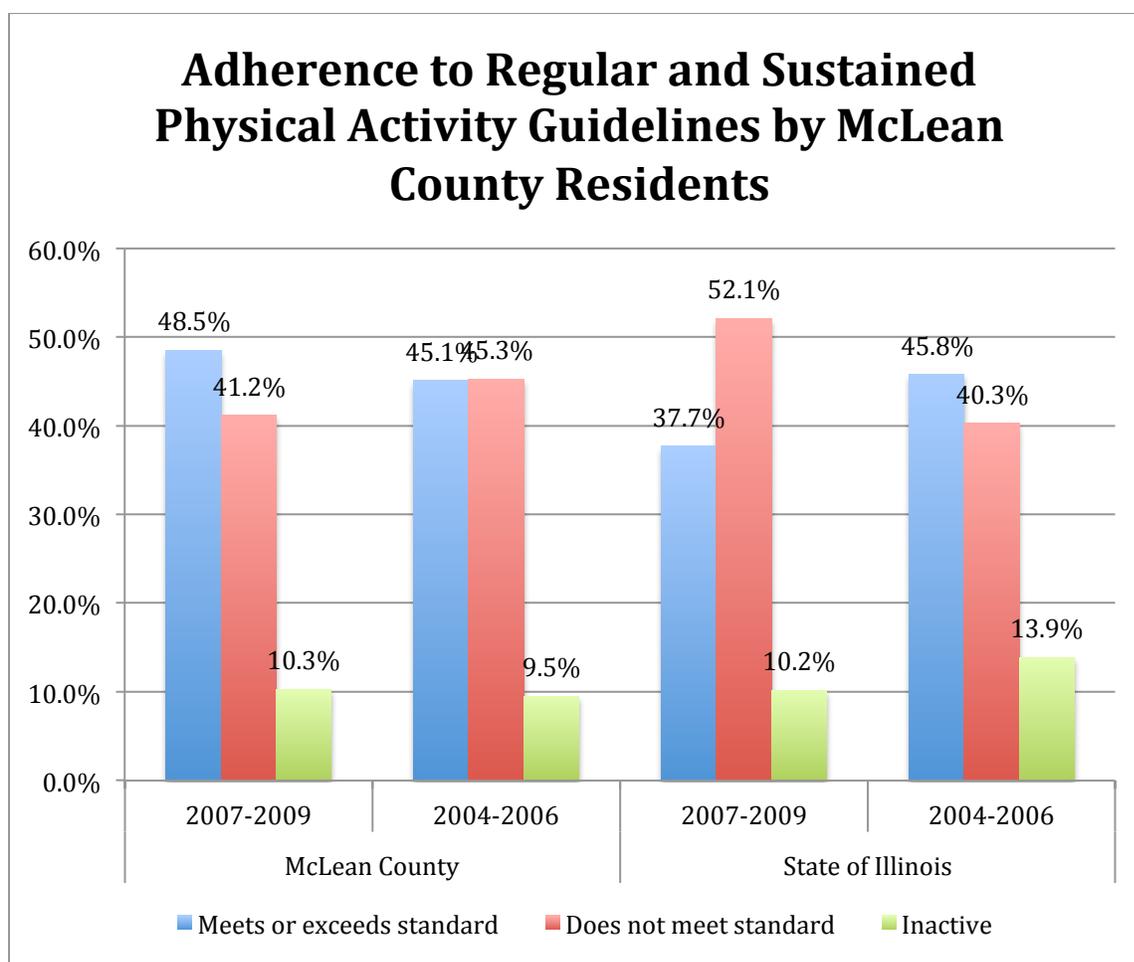
2.2.4 Healthy lifestyle

A healthy lifestyle, comprised of regular physical activity and nutritious diet, has been shown to increase physical, mental, and emotional well-being.

Residents in McLean County adhere to regular sustained physical activity guidelines at a higher propensity than the State of Illinois average (37.7%). The most recent data from 2007-2009 indicate that 48.5% of McLean County residents meet or exceed the regular and sustained physical activity guidelines.

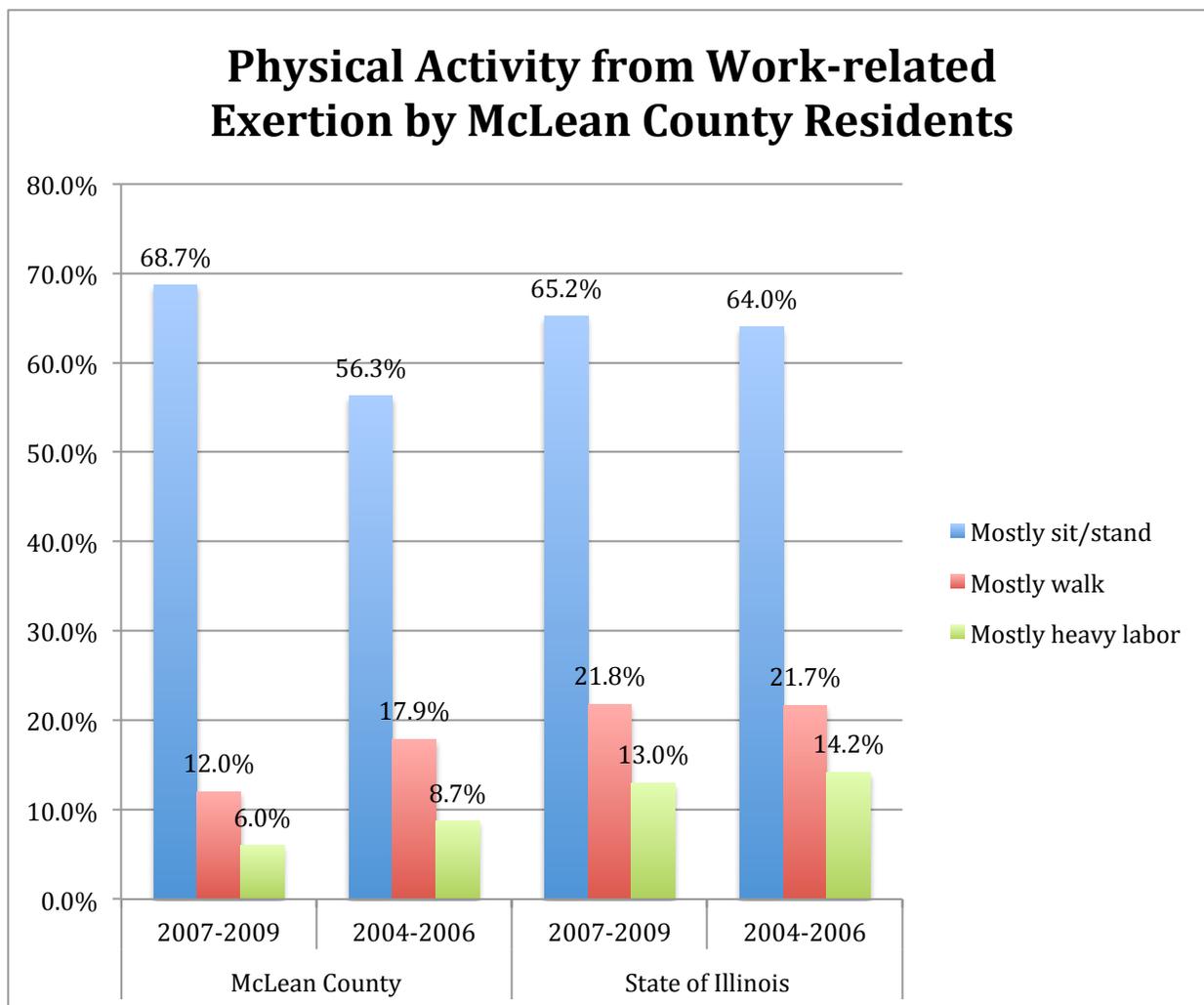
With regard to work-related activity, upwards of 70% of McLean County residents mostly sit or stand to execute their job tasks. The specific percentage in 2007-2009 for McLean County (68.7%) is higher than the State of Illinois average of 65.2%.

Table 2.2.4-1 Adherence to Regular and Sustained Physical Activity Guidelines by McLean County Residents



Source: Illinois Behavioral Risk Factor Surveillance System

Table 2.2.4-2 Physical Activity from Work-related Exertion by McLean County Residents

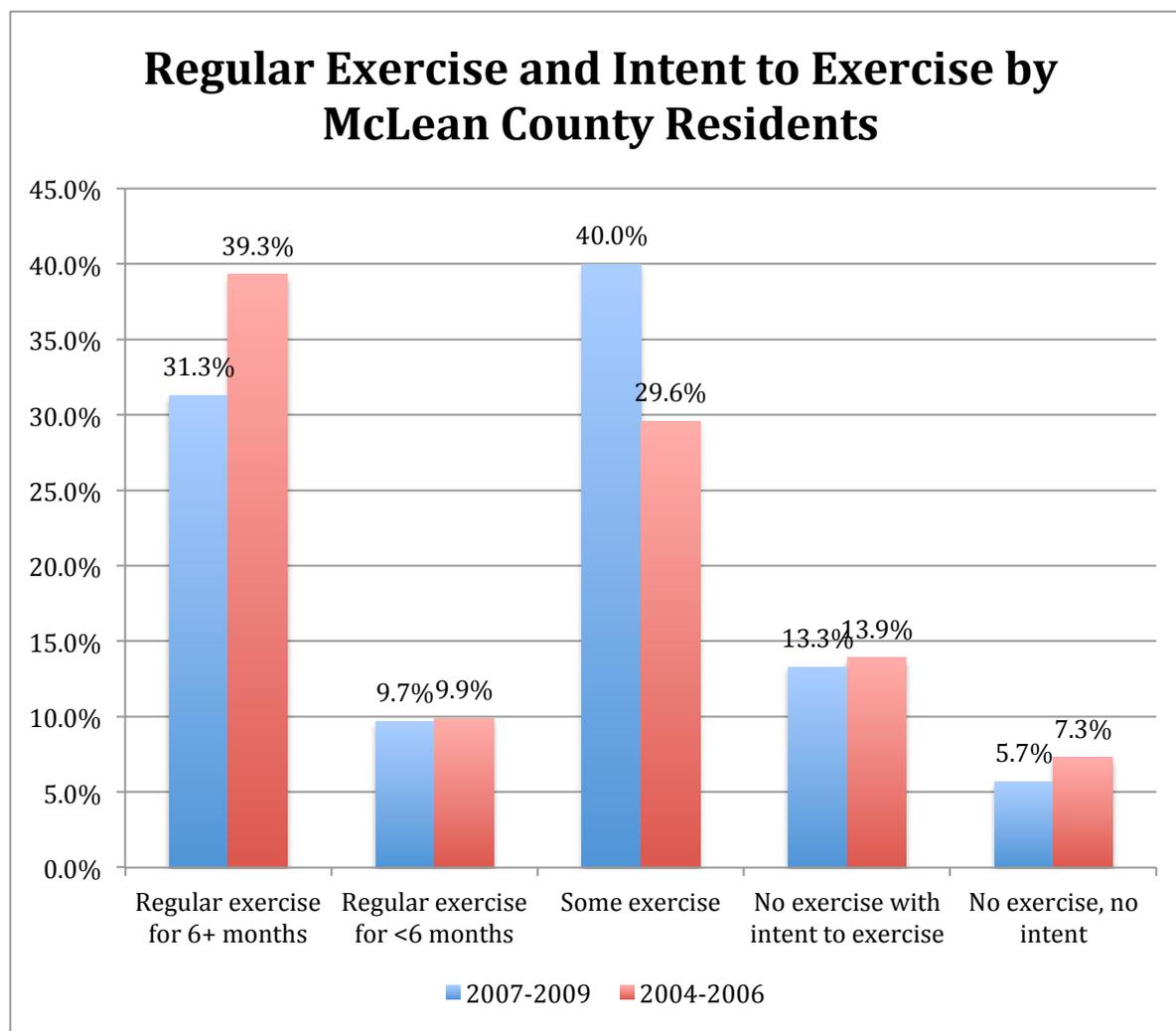


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

When evaluating physical activity, it is important to evaluate the values behind one's decision to exercise. Table 2.2.4-3 illustrates the intentions toward exercise held by residents in McLean County. According to recent data, approximately 13% of the residents in McLean County have the intent to exercise but do not actually follow through with exercising. The percentage of individuals in McLean County who do not exercise and do not have any desire to exercise has decreased between the periods of 2004-2006 and 2007-2009.

Table 2.2.4-3 Regular Exercise and Intent to Exercise by McLean County Residents

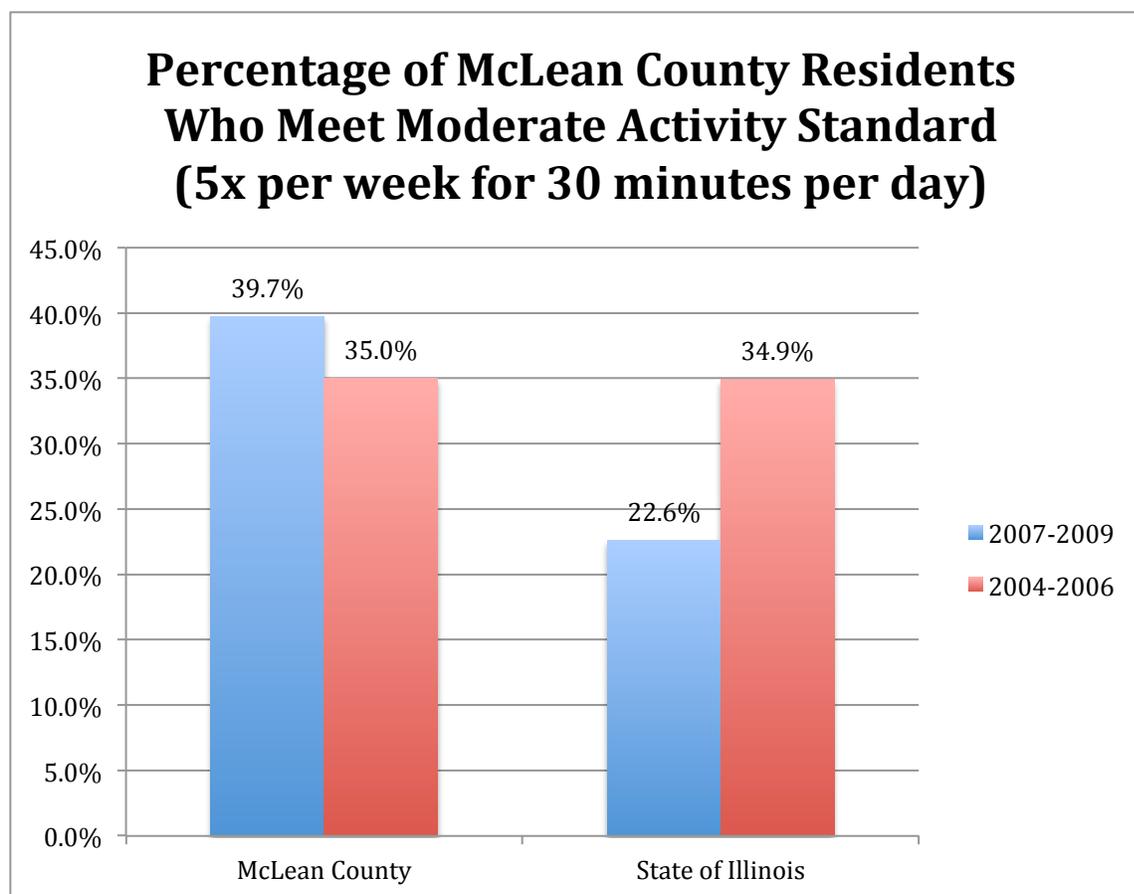


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

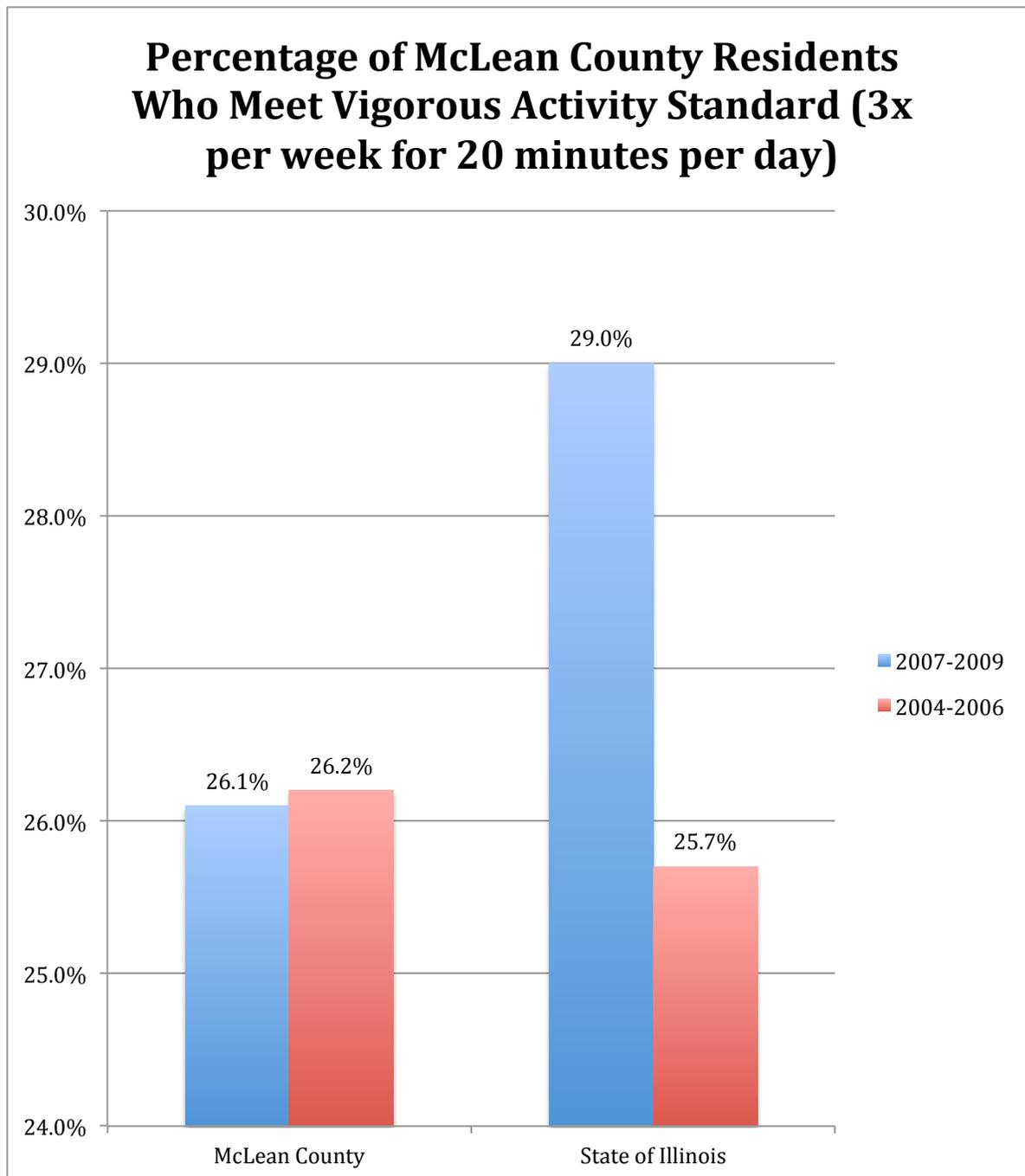
When evaluating physical activity, the intensity and duration of the exercise is important. Residents in McLean County report approximately 40% of individuals meet the moderate activity (based on heart rate) standard compared to 22.6% of individuals in the State of Illinois as a whole. The moderate activity standard is defined as five, 30-minute sessions per week. With regard to the vigorous activity standard, defined as three high-intensity 20-minute sessions per week, McLean County residents lag the state average.

Table 2.2.4-4 Percentage of McLean County Residents Who Meet Moderate Activity Standard (5x per week for 30 minutes per day)



Source: Illinois Behavioral Risk Factor Surveillance System

Table 2.2.4-5 Percentage of McLean County Residents Who Meet Vigorous Activity Standard (3x per week for 20 minutes per day)

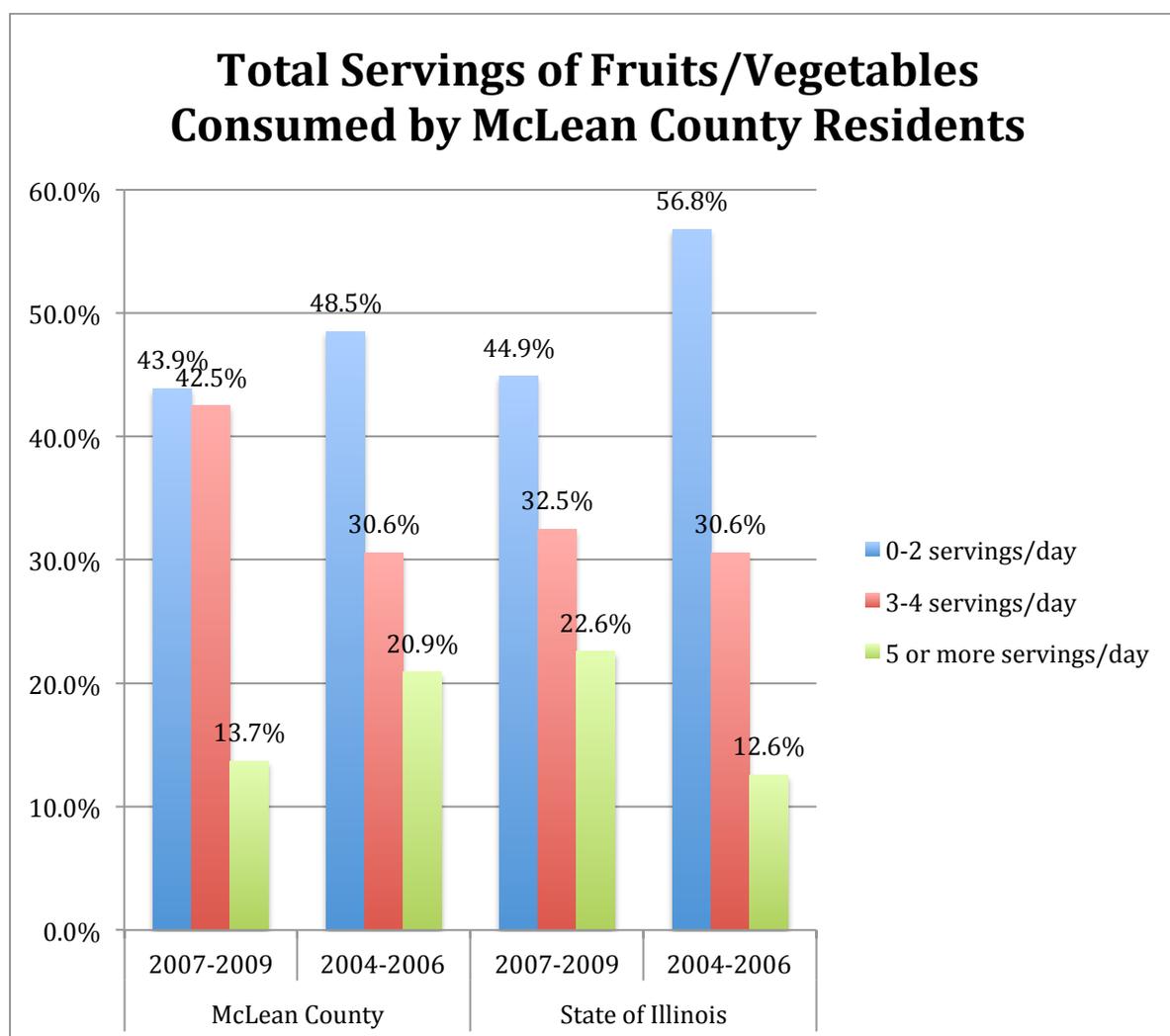


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

Nutrition and diet are critical to preventative care. Nearly half (43.9%) of McLean County residents report low consumption (0-2 servings per day) of fruits and vegetables. This percentage is lower than the State of Illinois average of 44.9% for the same measure. Note however that the percentage of McLean County residents who consume 5 or more servings per day is lower (13.7%) than the State of Illinois percentage (22.6%).

Table 2.2.4-6 Total Servings of Fruits/Vegetables Consumed by McLean County Residents



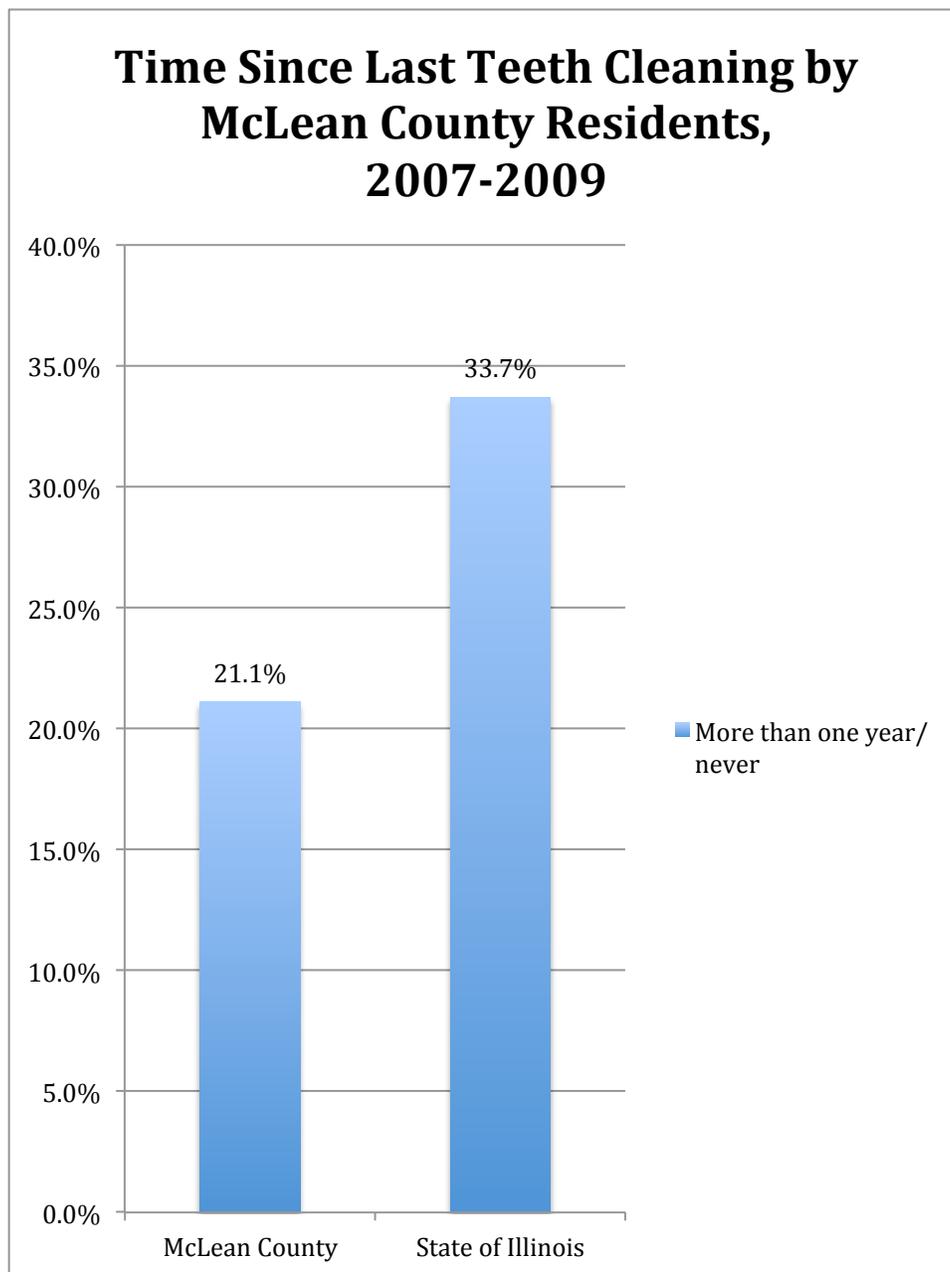
Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

2.2.5 Oral Health

Research suggests that poor oral hygiene leads to more serious medical concerns. For the 2007-2009 time frame, 78.9% of McLean County residents had their teeth cleaned within the last year. The percentages for McLean County are significantly better than that of the State of Illinois average (66.3%).

Table 2.2.5-1 Time Since Last Teeth Cleaning by McLean County Region Residents



Source: Illinois Behavioral Risk Factor Surveillance System

Prevention: Strategic Implications***Increase health care insurance coverage:***

Research suggests that private health insurance companies cover nearly 1/3 of the national health expenditures. According to the Kaiser Family Foundation, private health insurance companies comprised 32.7% of the health expenditures in the United States for 2010.¹ While this percentage has held constant around 32% since 1990, it marks an increase of approximately 11% since 1960. Medicare covered approximately 20.2% of national health expenditures in 2010, up nearly 4% since 2000. In addition, data suggest the out-of-pocket expenses incurred by individuals has steadily decreased, from a high of 33.4% of national health care expenditures in 1970 to 14.7% in 2000, and now 11.6% in 2010. The data are clear: Americans are paying less for out-of-pocket health care expenditures and relying more and more on private or public insurance policies to shoulder the financial burdens of health care. Private funds provided approximately 55% of health care payments in 2010 compared to 45% from federal and local government funds.²

The rising cost of health care services has resulted in a significant number of families cutting back on care and electing to postpone or cancel treatments. A 2011 Kaiser Health Tracking Poll found that 50% of Americans have cut back on medical treatments in the past 12 months based on cost concerns.³ Furthermore, 40% reported being “very worried” about having to shoulder more of the financial burden for their health care. Data seem to reinforce this concern, as health insurance premiums have consistently outpaced inflation and the growth in worker earnings.

In McLean County, approximately 17% of residents rely on Medicare coverage as their primary insurance coverage. Recent data suggest nearly 97% of McLean County residents possess medical health care coverage. This percentage is well above the 86% response rate for the State of Illinois. Similarly, dental insurance coverage across McLean County is higher than the state average, as 75.1% of McLean County residents report possessing dental insurance coverage.

Increase the prevalence of preventative health care screens:

There appears to be a relationship between individuals who have health insurance and individuals who take advantage of preventative health care screenings. Research for over twenty years suggests that the strongest predictors of failure to receive screening tests was lack of insurance coverage.⁴ Furthermore, research suggests that lack of insurance coverage is more prevalent among socioeconomically disadvantaged groups that are often at high risk for disease and illness.⁵ Thus, a vicious cycle results where individuals who are at the highest risk for diseases are unable to receiving screening, thus perpetuating a cycle of disease and high health care expenditures.

Screening guidelines from the United States Preventative Services Task Force offer insight on appropriate preventative care and screenings for youth, adults, and older individuals.⁶ Adherence to these guidelines provides data-driven benchmarks from physicians in the fields of primary care and preventative medicine. Above all, it is critical for physicians and patients to

St. Joseph Medical Center Community Health-Needs Assessment

engage in thorough evaluation of treatment options and engage in high-quality shared decision-making regarding treatment options.⁷

Routine physicals are essential to detecting adverse medical conditions. Research suggests many rural communities have dramatic medical professional shortages.⁸ With regard to women's health issues, while the percentage of women who report the time since their last mammogram was more than one year ago is lower in McLean County than in the State of Illinois (McLean: 28.5% vs. Illinois: 43.6%), growth rates for this category are dramatically higher in McLean County (135% growth between 2006 and 2009) than in the State of Illinois (15% growth between 2006 and 2009).

With regard to immunizations, the Center for Disease Control's Advisory Committee on Immunization Practices recommends everyone 6 months and older receive a flu vaccination every year.⁹ In McLean County, the percentage of residents who obtained a flu shot is considerably lower than the recommendations from the CDC.

Endnotes for Chapter 2

¹ Kaiser Family Foundation, "Health Care Costs: Key Information on Health Care Costs and Their Impact," May 2012.

² Ibid.

³ Kaiser Family Foundation, Kaiser Health Tracking Poll, *Toplines*, August 10-15, 2011, pp.16-18, <http://www.kff.org/kaiserpolls/8217.cfm>.

⁴ U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, *National Healthcare Disparities Report*, 2005.

⁵ U.S. Department of Health and Human Services, *Healthy People 2010*. Retrieved from <http://www.healthypeople.gov/>

⁶ U.S. Preventative Screening Task Force, *Recommendations for Adults, Adolescents, and Children*. Retrieved from <http://www.uspreventiveservicestaskforce.org>

⁷ Ibid.

⁸ Bailey, J.M. (2010, July). Health Care Reform, What's In It? *Rural Communities and Rural Medical Care*.

⁹ Centers for Disease Control and Prevention, Advisory Committee for Immunization Practices, *Comprehensive Recommendations*. Retrieved from <http://www.cdc.gov/vaccines/pubs/ACIP-list.htm>

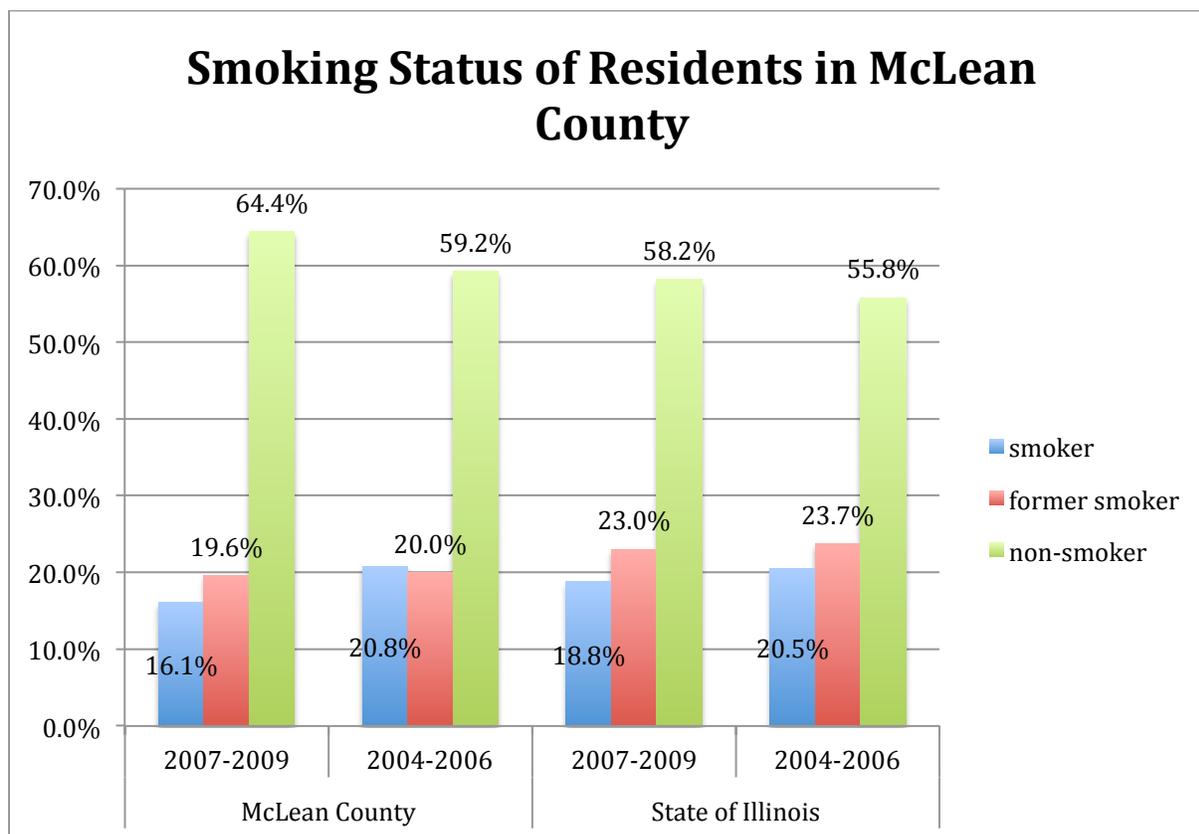
CHAPTER 3. SYMPTOMS AND PREDICTORS

3.1 Tobacco Use

Importance of the measure: In order to appropriately allocate health care resources, a thorough analysis of the leading indicators regarding morbidity and disease must be conducted. In this way, health care services and personnel can target affected populations more effectively. Research suggests tobacco use facilitates a wide variety of adverse medical conditions.

Smoking significantly impacts the health status of individuals. Smoking rates have decreased in McLean County and smoking rates are lower than the State of Illinois averages. There was a 23% decrease in the percentage of McLean County residents reporting they were current smokers between 2006 (20.8%) and 2009 (16.1%). For comparison, there was an 8% decrease in the percentage growth of Illinois residents reporting they were current smokers between 2006 (20.5%) and 2009 (18.8%). Approximately two-thirds of McLean County residents classify themselves as non-smokers, whereas approximately 20% of residents are former smokers.

Table 3.1-1: Smoking Status of Residents in McLean County

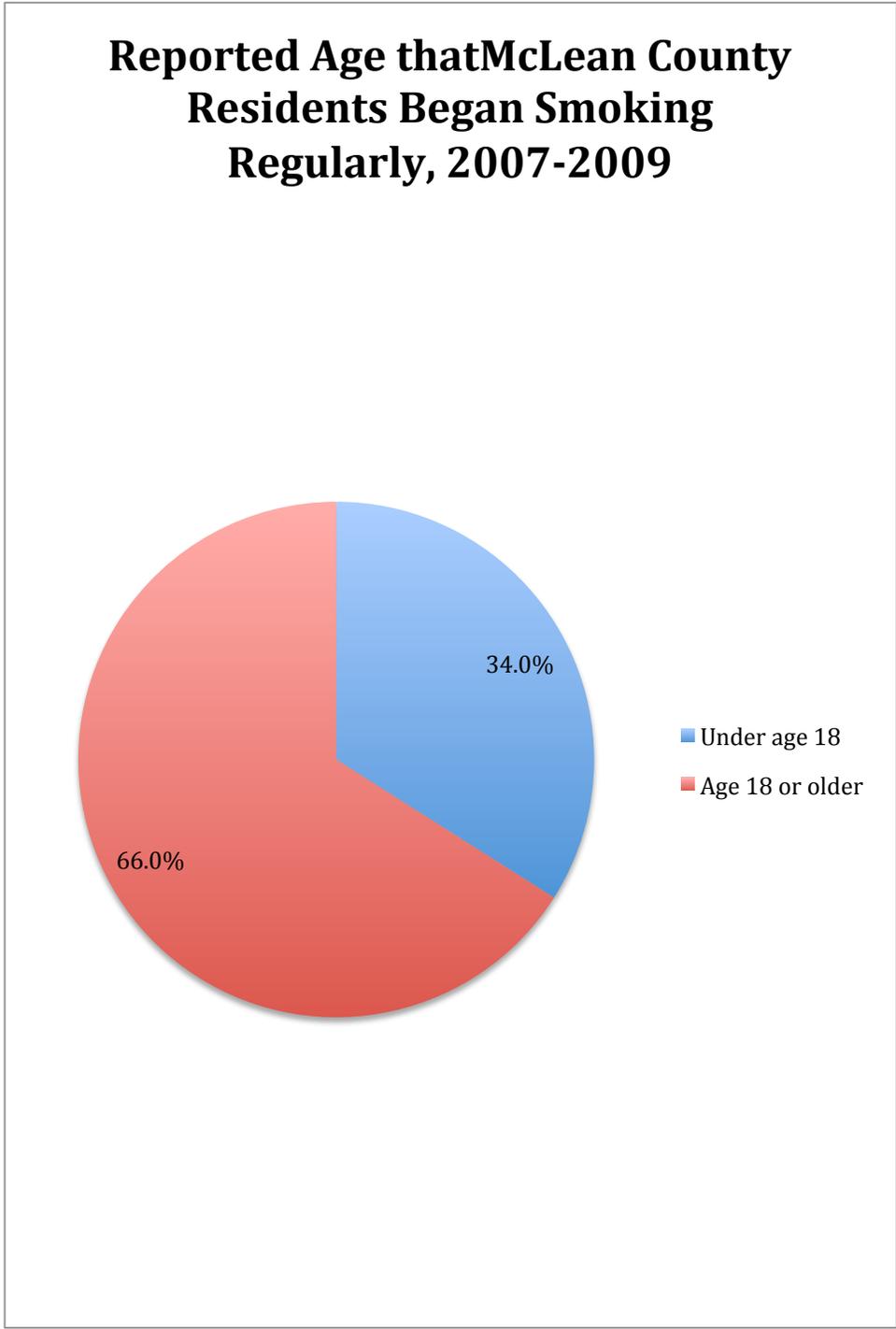


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

Many individuals begin smoking tobacco as teenagers. 34% of McLean County residents began smoking regularly before the age of 18.

Table 3.1-2: Reported Age that McLean County Residents Began Smoking Regularly

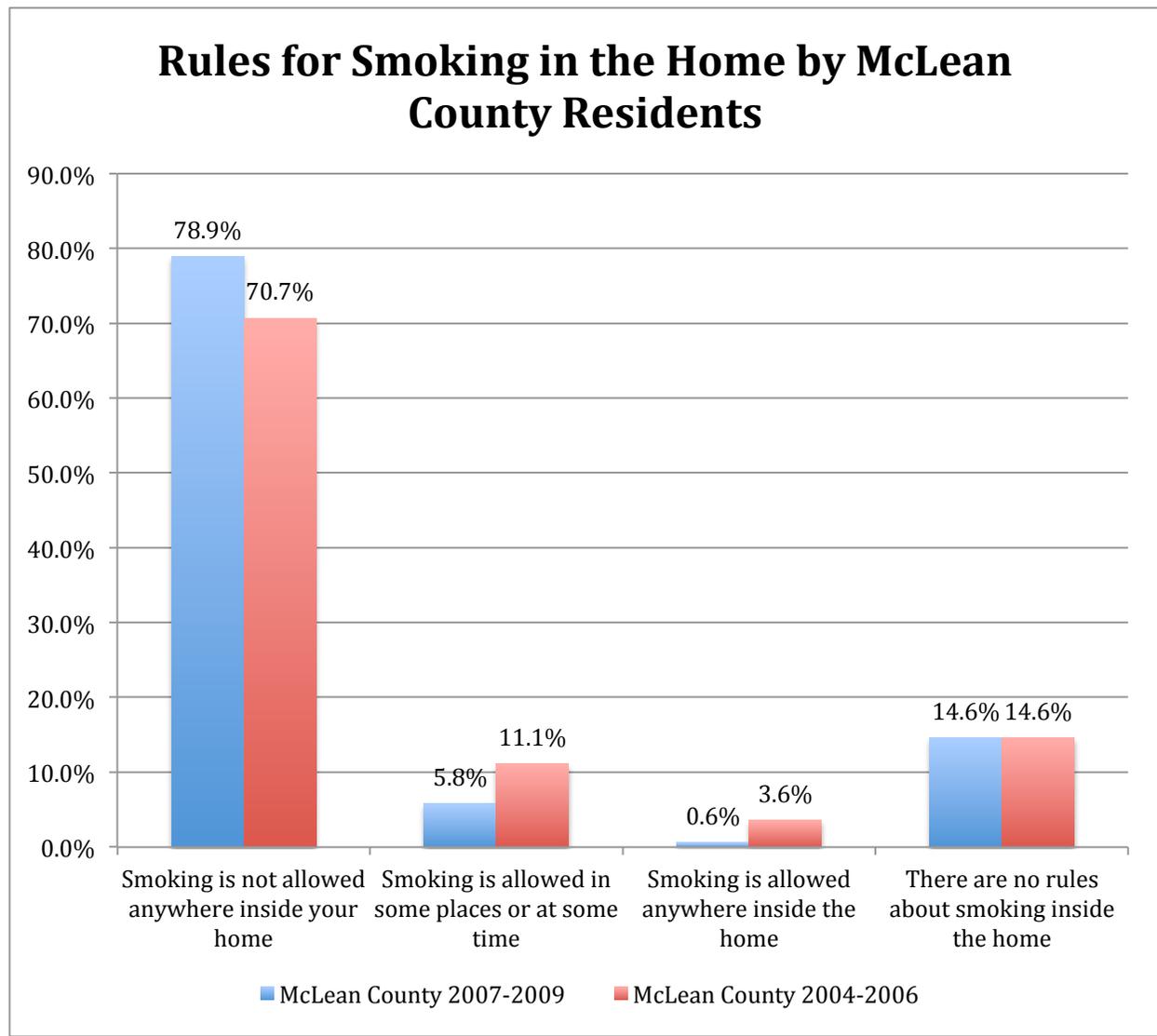


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

Family units have different rules regarding smoking at home. 78.9% of McLean County residents report that they are not allowed to smoke in their home.

Table 3.1-3: Rules for Smoking in the Home by McLean County Residents

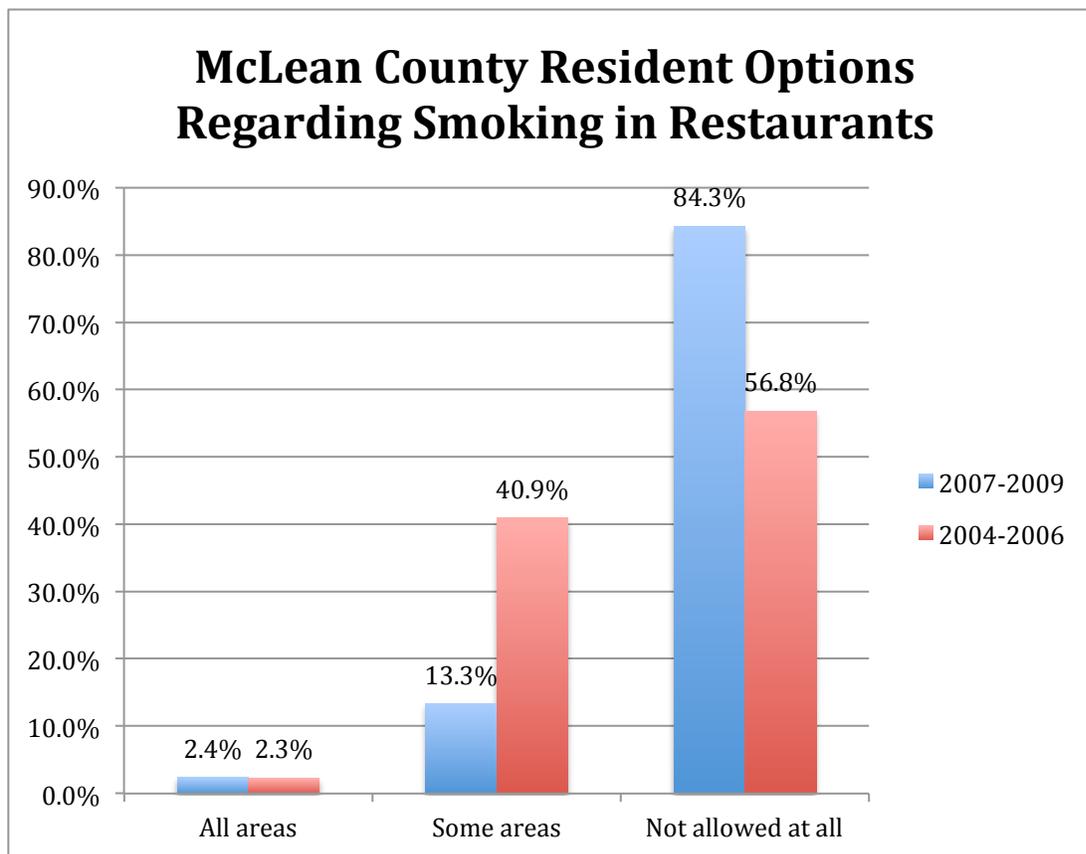


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

Attitudes toward smoking in restaurants have changed in the past six years. In 2004-2006, 43.2% of McLean County residents believed that smoking should be allowed in some areas within restaurants. However, by 2007-2009, the percentage of respondents who agreed with that statement had dropped significantly to 15.7%.

Table 3.1-4: McLean County Resident Options Regarding Smoking in Restaurants



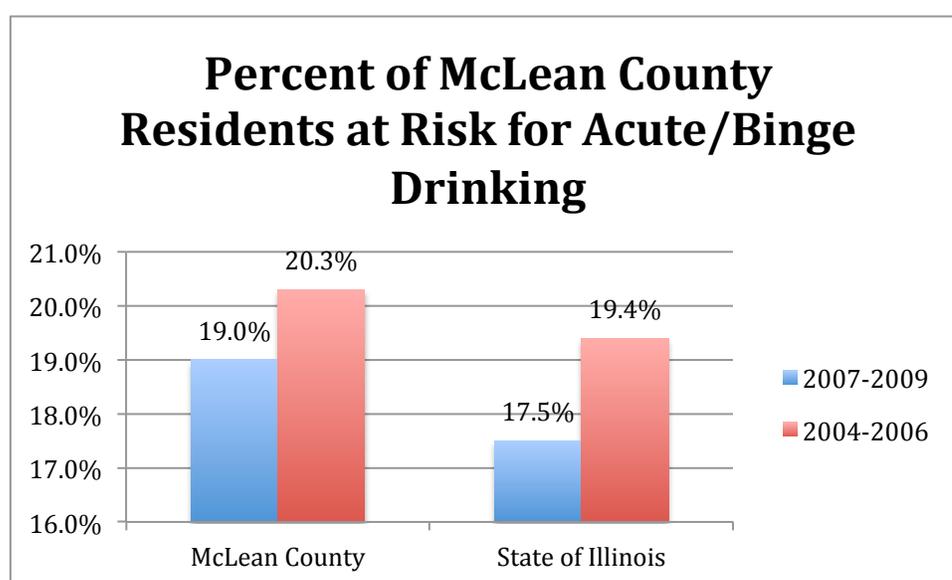
Source: Illinois Behavioral Risk Factor Surveillance System

3.2 Drug and Alcohol Abuse

Importance of the measure: Alcohol and drugs impair decision-making, often leading to adverse consequences and outcomes. Research suggests that alcohol is a gateway drug for youths, leading to increased usage of substances in adult years. Accordingly, the values and behaviors toward substance usage by high school students is a leading indicator of adult substance abuse in later years.

Compared to the State of Illinois average (17.5%), McLean County has a higher percentage of residents at risk for acute or binge drinking.

Table 3.2-1: Percent of McLean County Residents at Risk for Acute/Binge Drinking

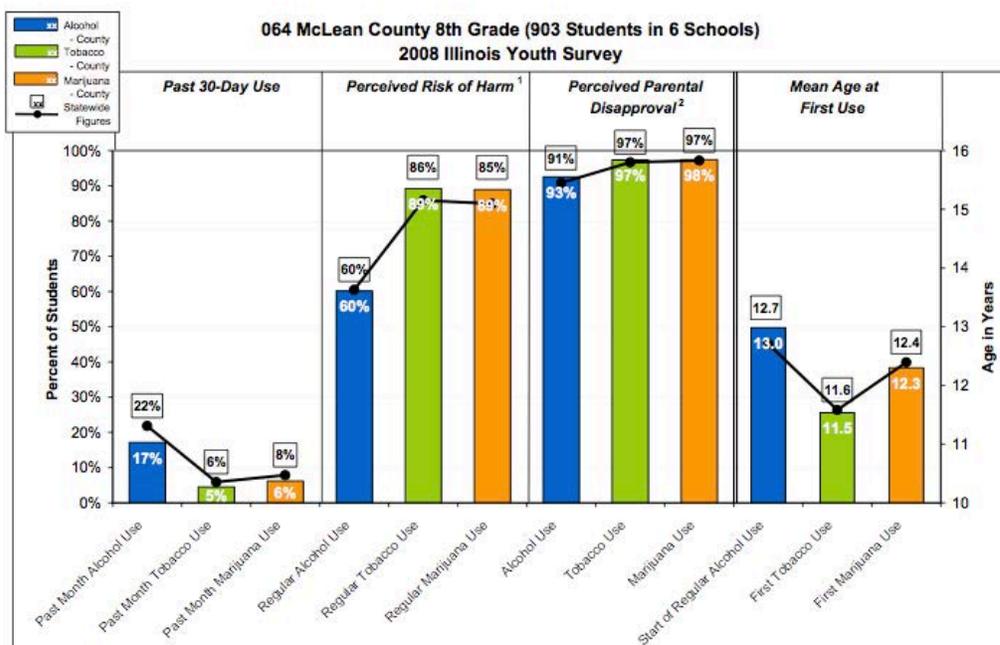


Source: Illinois Behavioral Risk Factor Surveillance System

Data from the 2008 Illinois Youth Survey, which measures illegal substance use (alcohol, tobacco, and other drugs – mainly marijuana) among adolescents, suggest emerging trends for adult substance usage. In McLean County among 8th graders, the average age at first use of alcohol, tobacco and marijuana is 13.0, 11.5 and 12.3 years respectively. The same average age for 12th graders is 16.0, 14.7 and 15.4 years respectively. In McLean County, the past 30-day use is higher for alcohol use (12th graders) when compared to State of Illinois averages.

St. Joseph Medical Center Community Health-Needs Assessment

Table 3.2-2: Reported Substance Abuse Usage of McLean County 8th Graders, 2008

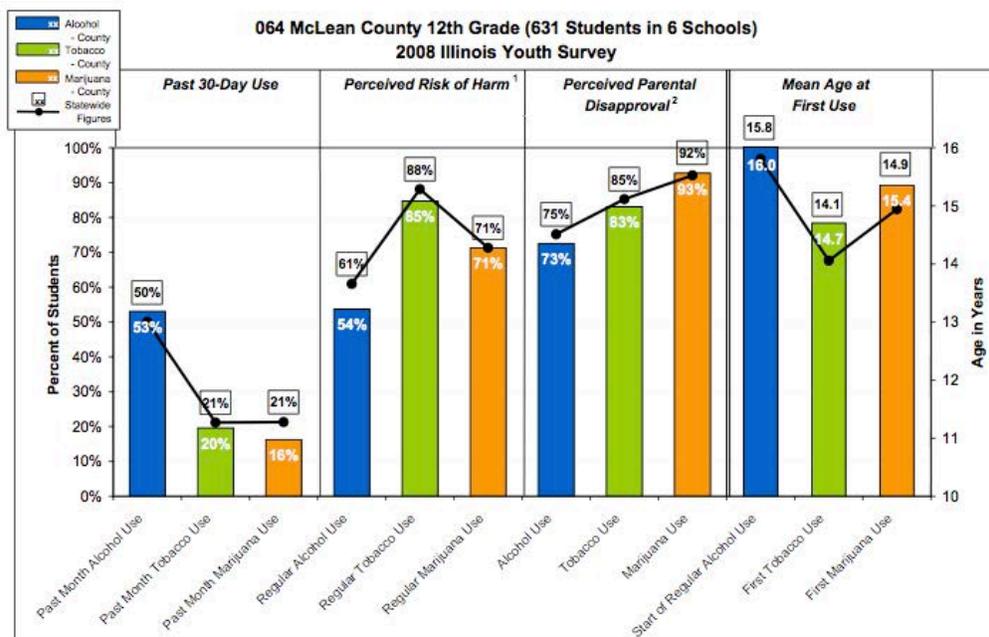


¹Perceived Risk of Harm: Percent who responded "Moderate Risk" or "Great Risk" of harm.

²Perceived Parental Disapproval: Percent who responded "Wrong" or "Very Wrong" attitude of parents toward youth use of substance.

Source: http://iys.cprd.illinois.edu/PDFs/2008_CountyCharts_Full_Report.pdf

Table 3.2-3: Reported Substance Abuse Usage of McLean County 12th Graders, 2008



¹Perceived Risk of Harm: Percent who responded "Moderate Risk" or "Great Risk" of harm.

²Perceived Parental Disapproval: Percent who responded "Wrong" or "Very Wrong" attitude of parents toward youth use of substance.

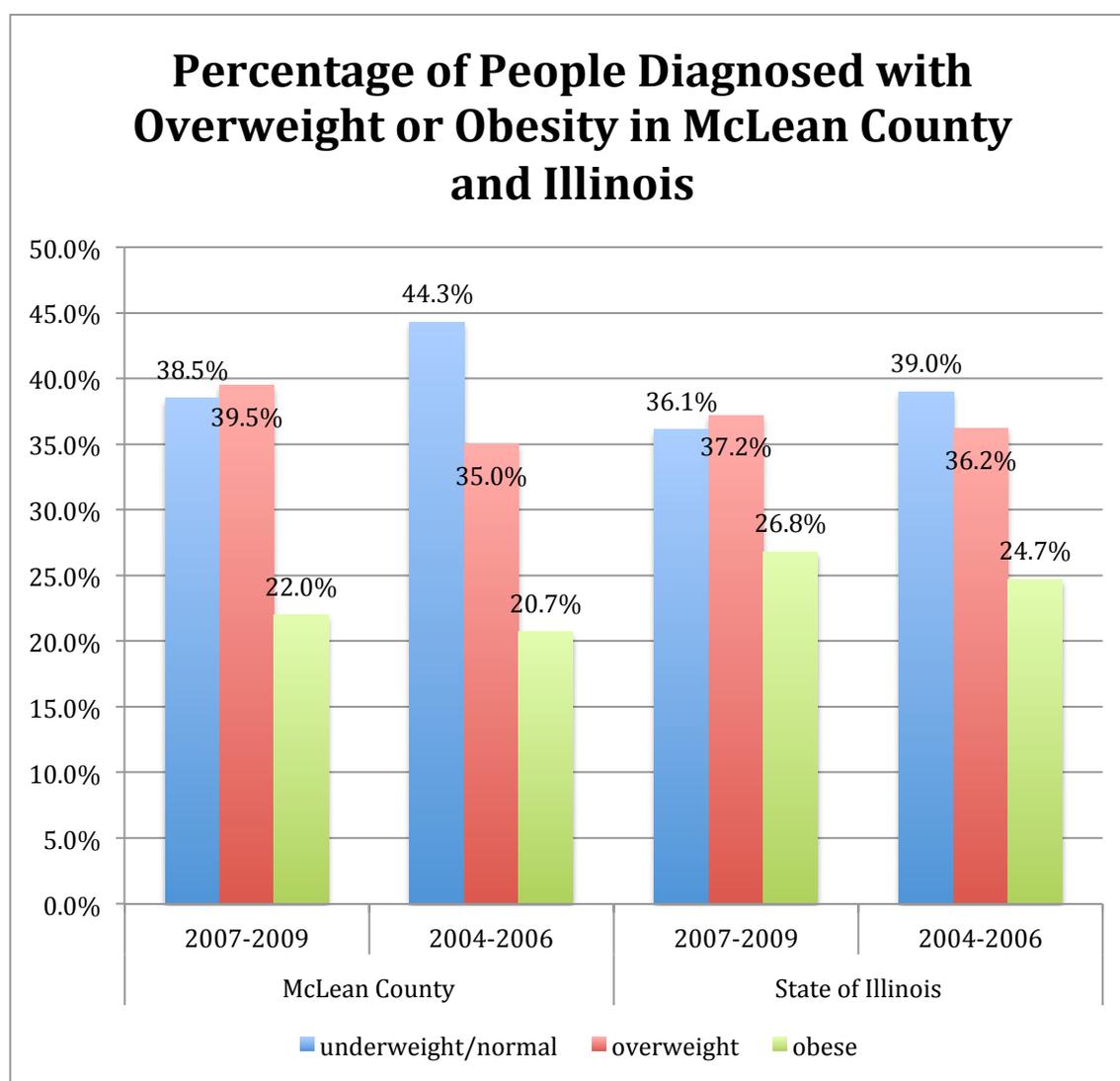
Source: http://iys.cprd.illinois.edu/PDFs/2008_CountyCharts_Full_Report.pdf

3.3 Overweight and Obesity

Importance of the measure: Individuals who are overweight and obese place greater stress on internal organs, thus increasing the propensity to utilize health services.

In terms of obesity and being overweight, Table 3.3-1 shows that in McLean County, the number of people who have trouble with their weight has increased over the five years from 2004 to 2009. Note specifically that both the percentages of obese and overweight people experienced a significant increase.

Table 3.3-1: Percentage of People Diagnosed with Overweight or Obesity in McLean County and Illinois

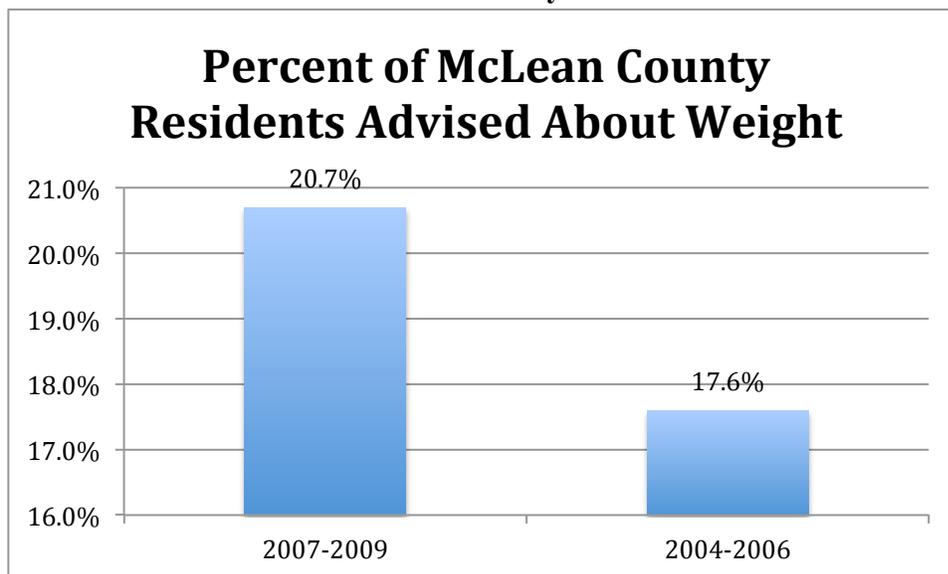


Source: Illinois Behavioral Risk Factor Surveillance System

St. Joseph Medical Center Community Health-Needs Assessment

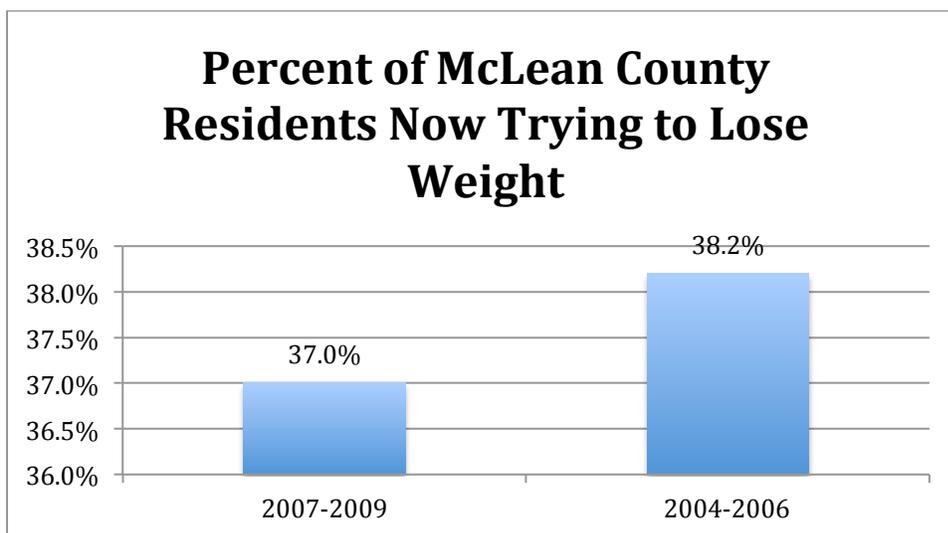
With regard to those individuals advised by a medical professional about their weight, nearly 21% of residents in McLean County have been advised about their weight during the 2007-2009 time frame. In Table 3.3-3, over one-third of McLean County residents are attempting to lose weight and Table 3.3-4 illustrates the percentage of McLean County residents attempting to maintain their current weight.

Table 3.3-2: Percent of McLean County Residents Advised About Weight

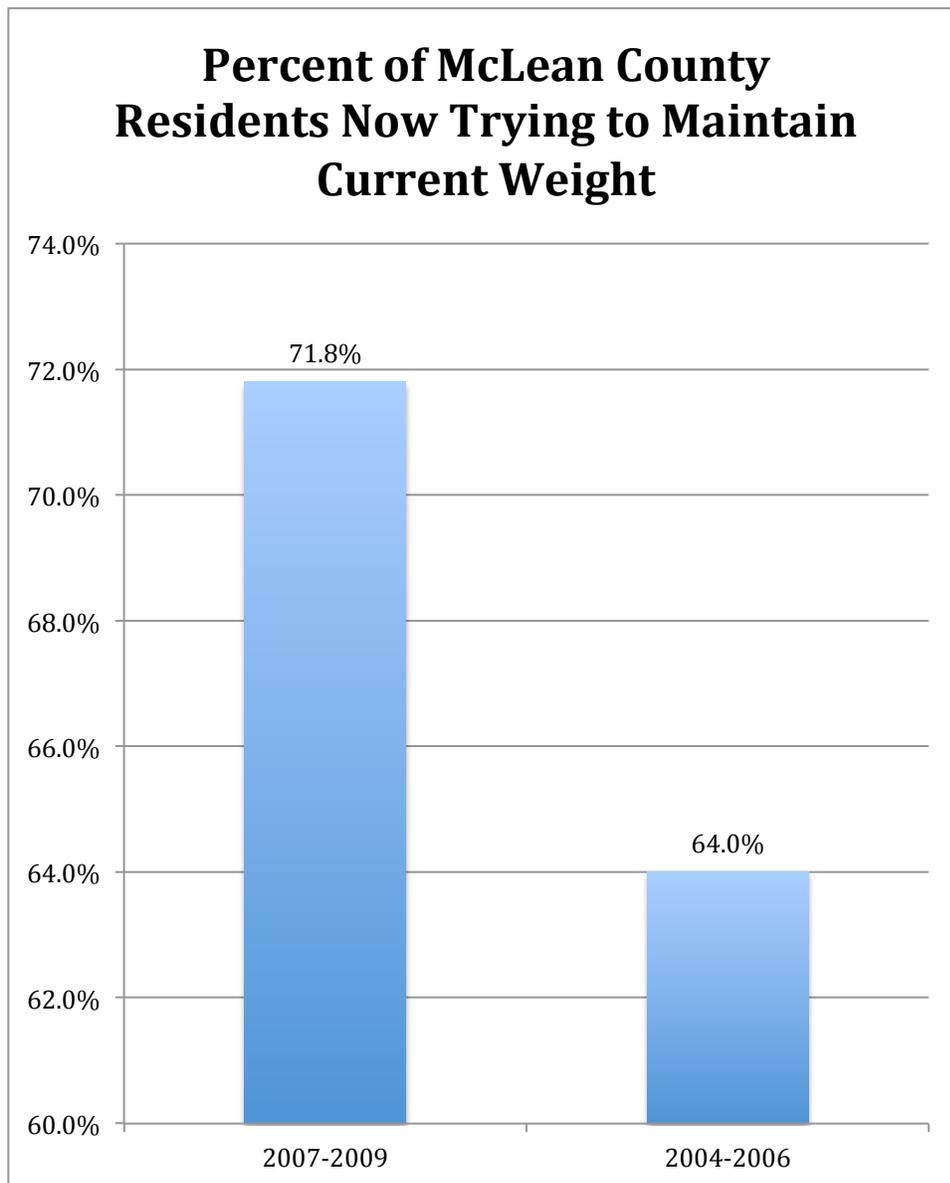


Source: Illinois Behavioral Risk Factor Surveillance System

Table 3.3-3: Percent of McLean County Residents Now Trying to Lose Weight



Source: Illinois Behavioral Risk Factor Surveillance System

Table 3.3-4: Percent of McLean County Residents Now Trying to Maintain Current Weight

Source: Illinois Behavioral Risk Factor Surveillance System

Symptoms/Predictors: Strategic Implications***Effectively combating youth obesity:***

Research strongly suggests that obesity is a significant problem facing youth and adults nationally, in Illinois, and within McLean County. The US Surgeon General has characterized obesity as “the fastest-growing, most threatening disease in America today.”¹ According to the Obesity Prevention Initiative from the Illinois General Assembly, 20% of Illinois children are obese². Data from 2010 indicate 62% of Illinois adults are obese or overweight, with a disproportionate number of obese or overweight individuals living in rural areas. The financial burden of overweight and obese individuals is staggering, as the estimated annual medical costs attributed to obesity in Illinois for 1998-2000 exceeded 3.4 billion dollars, ranking Illinois 6th in the nation for obesity-attributed medical costs³.

With children, research has linked obesity to numerous chronic diseases including Type II diabetes⁴, hypertension, high blood pressure, and asthma. Adverse physical health side effects of obesity include orthopedic problems with weakened joints and lower bone density⁵. Detrimental mental health side effects include low self-esteem, poor body image, symptoms of depression and suicide ideation⁶. Obesity impacts educational performance as studies suggest that overweight students miss one day of school per month on average and school absenteeism of obese children is six times higher than that of non-obese children⁷.

With adults, obesity has far-reaching consequences. Testimony to the Illinois General Assembly indicated that obesity-related illnesses contribute to worker absenteeism, slow workflow, and high worker compensation rates.⁸ A Duke University study on the effects of obesity in the workforce noted 13 times more missed work days by obese employees than non-obese employees. Nationwide, lack of physical activity and poor nutrition contribute to an estimated 300,000 preventable deaths per year.

Within McLean County, leading indicators suggest obesity is a growing concern. With regard to nutrition, evidence suggests residents in McLean County are not eating enough fruits and vegetables. Table 2.2.4-6 indicates that between 2007 and 2009, only 13.7% of McLean County residents consumed 5 or more servings of fruits and vegetables per day. These figures are considerably less than the 22.6% of Illinois residents who eat more than 5 servings per day. Furthermore, approximately 50% of McLean County residents consume 0-2 servings of fruits and vegetables per day.

Research indicates physical activity helps to prevent illness and obesity⁹. Data regarding the values toward exercise and the actual time spent exercising may contribute to obesity in McLean County. For example, data from the Center for Disease Control indicate that 66% of children walked or biked to school in 1973. By 2000, that figure had decreased to only 13%.¹⁰ As seen in Table 2.2.4-4, residents in McLean County report approximately 40% of individuals meet the moderate activity standard compared to 22.6% of individuals in the State of Illinois as a whole. However, this means approximately 60% of residents do not meet the moderate activity standard.

Aggressively addressing youth substance abuse:

The use of tobacco, alcohol, and other drugs is a significant contributor to the escalating costs of health care service delivery. According to the Center for Disease Control, tobacco use is the leading preventable cause of death in the United States.¹¹ On a societal level, alcohol, tobacco, and other drug use leads to accidents, violent behavior, emotional trauma, and assaults. It is estimated that drug-induced related risky behavior needlessly drains community resources such as police intervention, emergency services, and criminal justice costs.

The Surgeon General contends that “alcohol remains the most heavily abused substance by America’s youth.”¹² Dr. Peter Monti, Director of the Center for Alcohol and Addiction Studies at Brown University notes that alcohol disrupts the continued growth of an adolescent’s brain and “impacts the brain’s ability to learn life skills.”¹³ Studies show that an adolescent needs to only drink half as much alcohol as an adult to suffer similar adverse brain effects.¹⁴ Research shows that cigarette smoking as a teenager leads to higher risks for lung cancer as an adult, reduces the rates of lung growth, and the maximum level of lung function that could be achieved.¹⁵

Financially, underage drinking is estimated to cost the nation upwards of \$62 billion dollars annually in deaths, injuries, and other economic losses.¹⁶ A Columbia University study examining the impacts of substance abuse in mid-sized cities and rural America suggested that tobacco use was more prevalent in mid-sized cities and rural areas than large metropolitan areas; specifically, young adults in mid-sized cities and rural areas were 30% more likely than adults in larger cities to have smoked a cigarette in the last month.¹⁷

In McLean County, smoking rates have decreased since 2004-2006 and are now significantly lower than the state of Illinois average. Conversely, youth substance usage in McLean County exceeds the State of Illinois averages for 12th graders (alcohol) and a higher proportion of residents engage in binge drinking (19.0%) versus 17.5% overall in the State of Illinois.

Endnotes for Chapter 3

¹ *Childhood Obesity: An epidemic is gripping California and the nation: How did we get here? What do we do now?* Advertising supplement to The New York Times, Kaiser Permanente, UC San Francisco Medical School, UCLA Medical School, January 2006.

² *Obesity Prevention Initiative Act (PA 96-0155): A Report to the Illinois General Assembly*, Illinois Department of Public Health, December 2010.

³ Ibid.

⁴ Crawford, P., Mitchell, T., & Ikeda, J. (2000). *Childhood Overweight: A Fact Sheet for Professionals*, UCB/Cooperative Extension University of California-Berkeley.

⁵ Xiang, H. (2005). Obesity and Risk of Nonfatal Unintentional Injuries, *American Journal of Preventative Medicine*, 29,1, 41-45.

St. Joseph Medical Center Community Health-Needs Assessment

⁶ U.S. Department of Health and Human Services, *Healthy People 2010*. Retrieved from <http://www.healthypeople.gov/>

⁷ Schwimmer, J.B., Burwinkle, T.M., & Varni, J.W. (2003). Health-Related Quality of Life of Severely Obese Children and Adolescents. *Journal of the American Medical Association*. 289(14), 1818.

⁸ *Obesity Prevention Initiative Act (PA 96-0155): A Report to the Illinois General Assembly*, Illinois Department of Public Health, December 2010.

⁹ *The Learning Connection: The Value of Improving Nutrition and Physical Activity in Our Schools*. Retrieved from <http://www.actionforhealthykids.org>

¹⁰ U.S. Center for Disease Control and Prevention, *Youth Physical Activity: The Role of Families*. Retrieved from <http://www.cdc.gov/healthyyouth>

¹¹ U.S. Center for Disease Control and Prevention, *Smoking and Tobacco Use: Data and Statistics*. Retrieved from <http://www.cdc.gov/tobacco>

¹² U.S. Department of Health and Human Services. *The Surgeon General's Call to Action to Prevent and Reduce Underage Drinking*. Rockville, MD: U.S. Department of Health and Human Services; 2007. Retrieved from <http://www.surgeongeneral.gov/topics/underagedrinking/>

¹³ Monti, P.M., et al. (2005). Adolescence: Booze, Brains, and Behavior. *Alcoholism: Clinical and Experimental Research*. 29, 2, 207-220.

¹⁴ American Medical Association, *Harmful Consequences of Alcohol Use on the Brains of Children*.

¹⁵ *Preventing Tobacco Use Among Young People, Executive Summary, A Report of the Surgeon General*, 1994, Ch. 1.

¹⁶ Pacific Institute for Research and Evaluation, *State Underage Drinking Fact Sheets*, 2004.

¹⁷ The National Center on Addiction and Substance Abuse at Columbia University, *Adolescent Substance Use: America's #1 Public Health Problem*, June 2011.

CHAPTER 4. DISEASES/MORBIDITY

Note in this chapter, given the lack of recent disease/morbidity data from existing secondary data sources, much of the data used in this chapter was manually gathered from two McLean County hospitals: OSF St. Joseph Medical Center and Advocate BroMenn Medical Center.

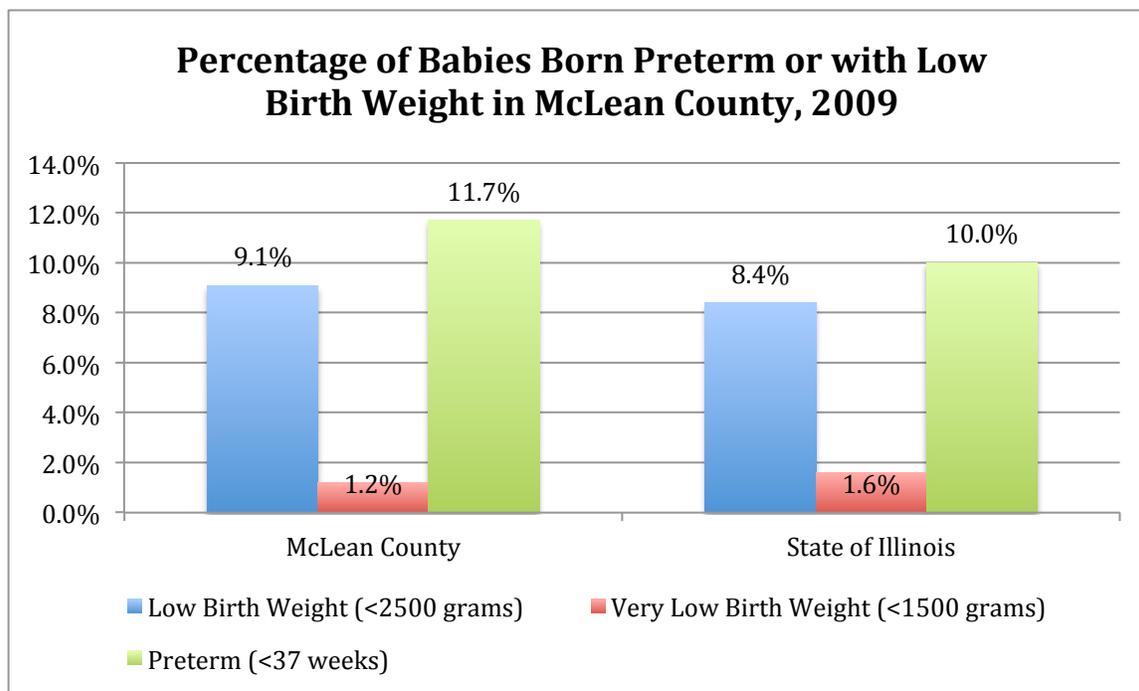
4.1 Age related

Importance of the measure: Age related statistics regarding morbidity gain insight into the prevalence of disease within two vulnerable populations – the very young and the very old. Health care services designed to meet the needs of these populations are very expensive and therefore, a thorough understanding of the leading indicators for these populations helps with managing service delivery costs.

4.1.1 Low birth-weight rates

Low birth-weight rate is defined as the percentage of infants born below 2,500 grams or 5.5 pounds. Very low birth-weight rate is defined as the percentage of infants born below 1,500 grams or 3.3 pounds. In contrast, the average newborn weighs about 7 pounds. The percentage of babies born with low and preterm birth weights in McLean County was greater than the State of Illinois averages.

Table 4.1.1-1: Percentage of Babies Born Preterm or with Low Birth Weight in McLean County, 2009



Source: Illinois Department of Public Health

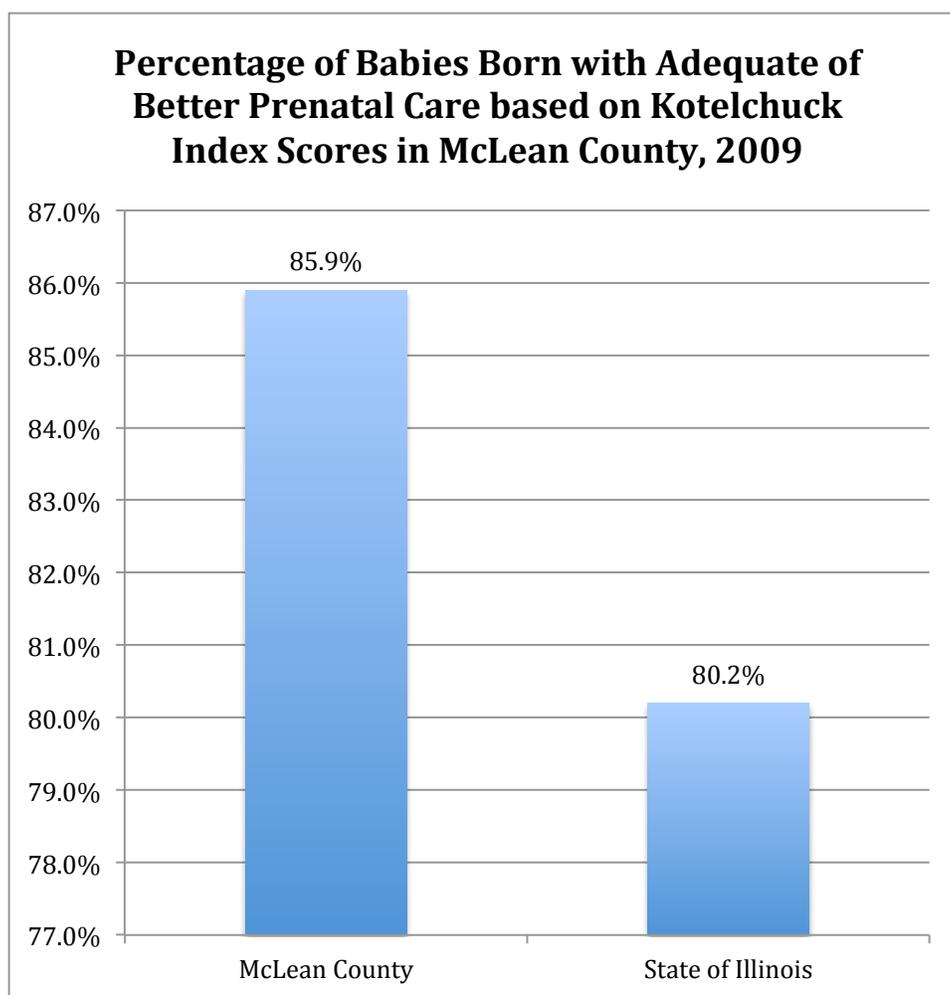
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4.1.2 Initiation of prenatal care

Prenatal care is comprehensive medical care provided for the mother and fetus, which includes screening and treatment for medical conditions as well as identification and interventions for behavioral risk factors associated with adverse birth outcomes. Kotelchuck Index Scores are used to determine the quantity of prenatal visits received between initiation of services and delivery. Adequate (80%-109% of expected visits) and Adequate Plus (receiving 110% of recommended services) of received services is compared to the number of expected visits for the period when care began and the delivery date.

Of the babies born in 2009 in McLean County, 85.9% were born with “Adequate” or “Adequate Plus” prenatal care. This figure is significantly better than the State of Illinois average of 80.2% of babies born with similar prenatal care.

Table 4.1.2-1: Percentage of Babies Born with Adequate or Better Prenatal Care based on Kotelchuck Index Scores in McLean County, 2009



Source: Illinois Department of Public Health

St. Joseph Medical Center Community Health-Needs Assessment

4.2 Cardiovascular

Importance of the measure:

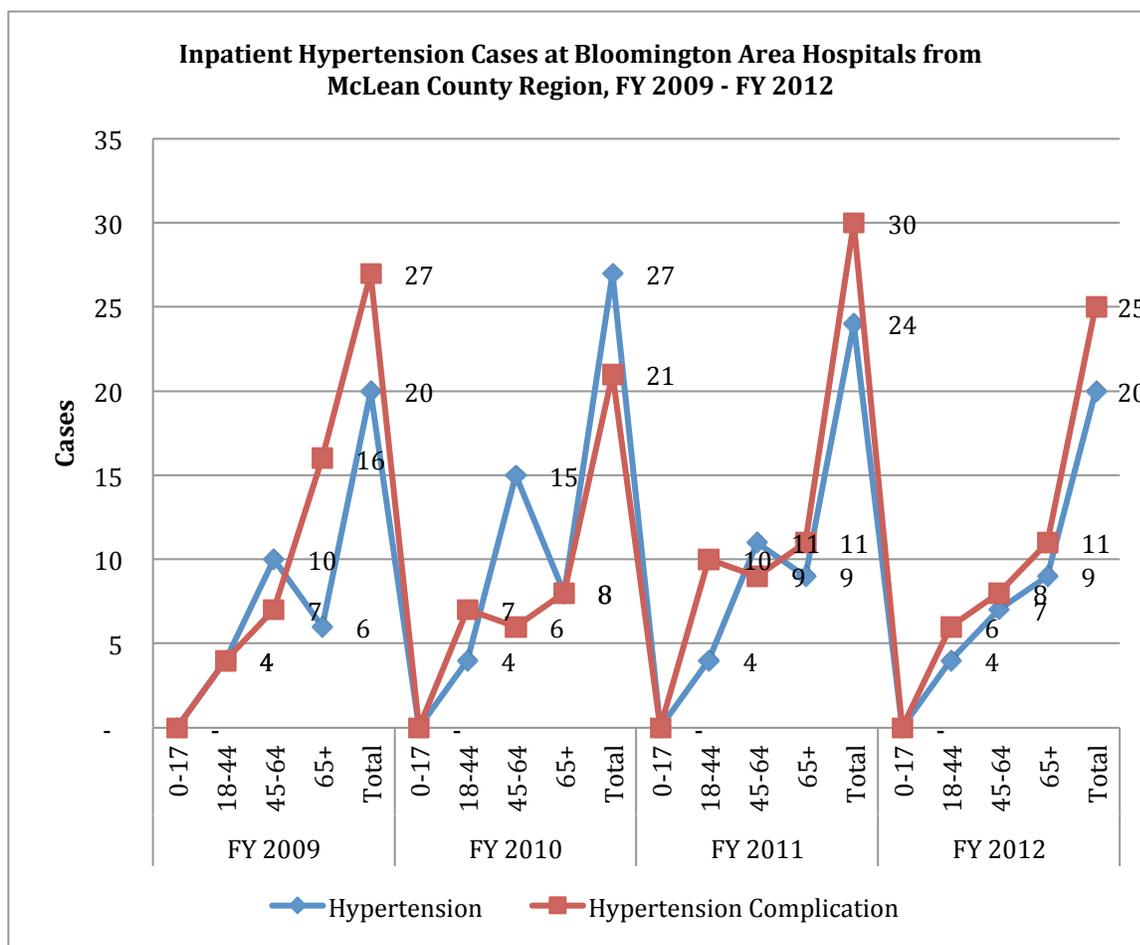
Cardiovascular disease is defined as all diseases of the heart and blood vessels, including ischemic (also known as coronary) heart disease, cerebrovascular disease, congestive heart failure, hypertensive disease, and atherosclerosis.

4.2.1 Hypertension

High blood pressure, which is also known as hypertension, is dangerous because it forces the heart to work extra hard to pump blood out to the rest of the body and contributes to the development of the hardening of the arteries and heart failure.

An average of 27 cases of hypertension complication per year is reported Bloomington area hospitals. Cases of hypertension complication peaked in FY 2010 when 27 instances were reported overall. The most recent data indicate 20 cases of hypertension and 25 case of hypertension complication in FY 2012.

Table 4.2.1-1 Inpatient Hypertension Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



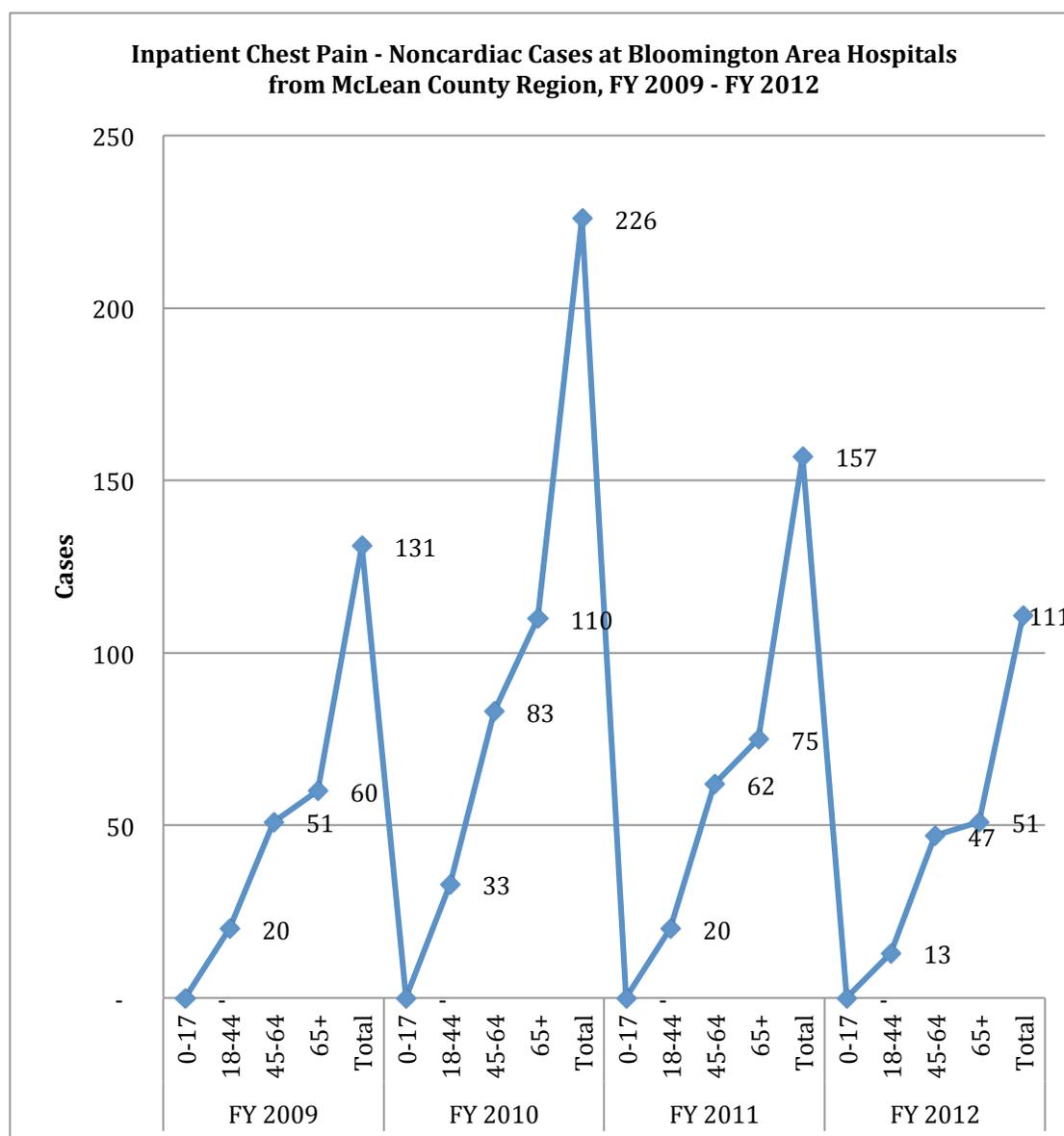
Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

4.2.2 Coronary artery

There has been a 15% decrease in the number of treated cases of noncardiac chest pain at Bloomington area hospitals in McLean County between 2009-2012. Cases of noncardiac chest pain peaked in FY 2010 with 226 reported cases.

Table 4.2.2-1 Inpatient Chest Pain - Noncardiac Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

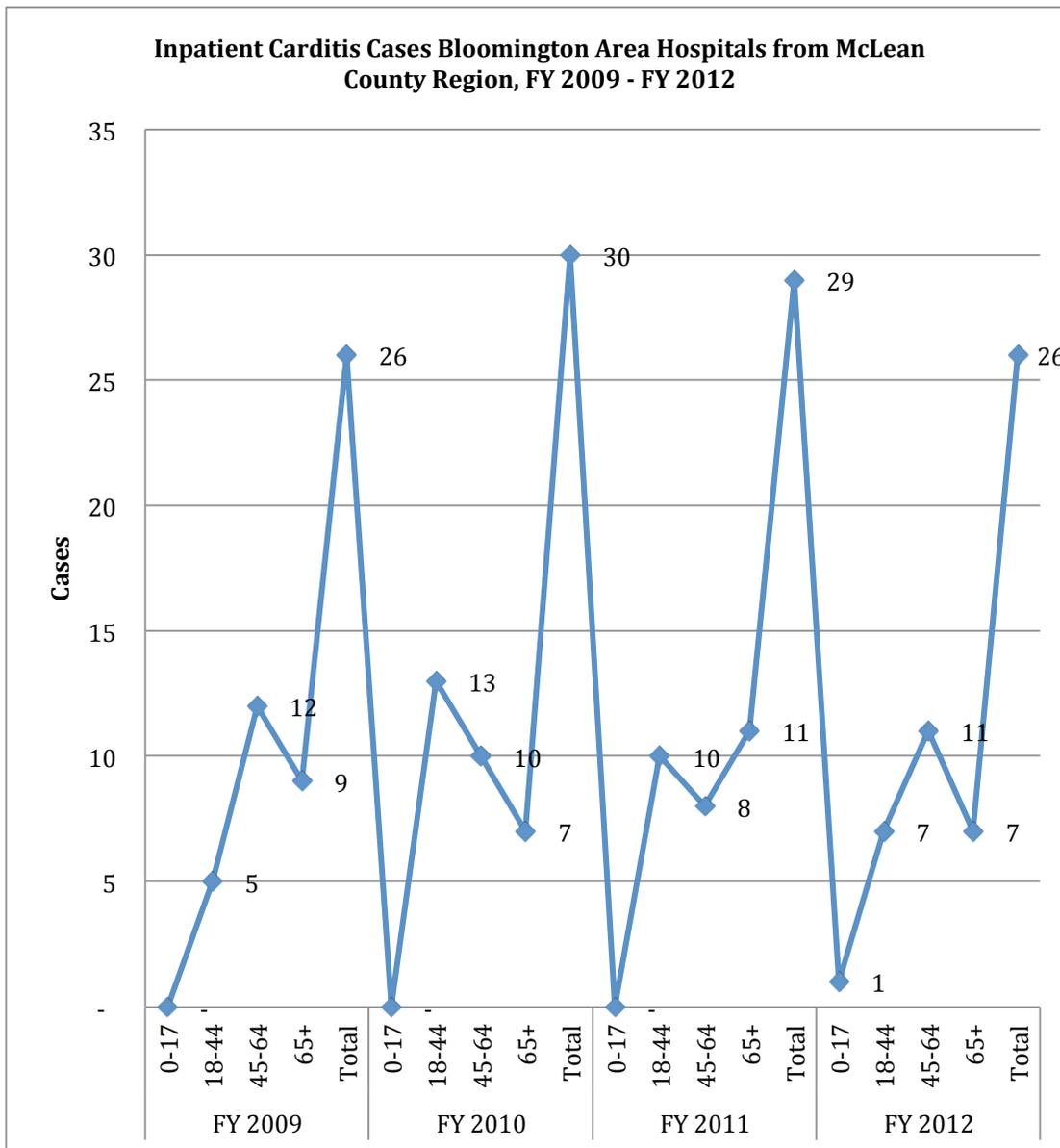


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

Cases of carditis at Bloomington area hospitals in McLean County peaked in FY 2010 when 30 cases were reported. Between FY 2009 and FY 2012, an average of 27 cases was reported.

Table 4.2.2-2 Inpatient Carditis Cases Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

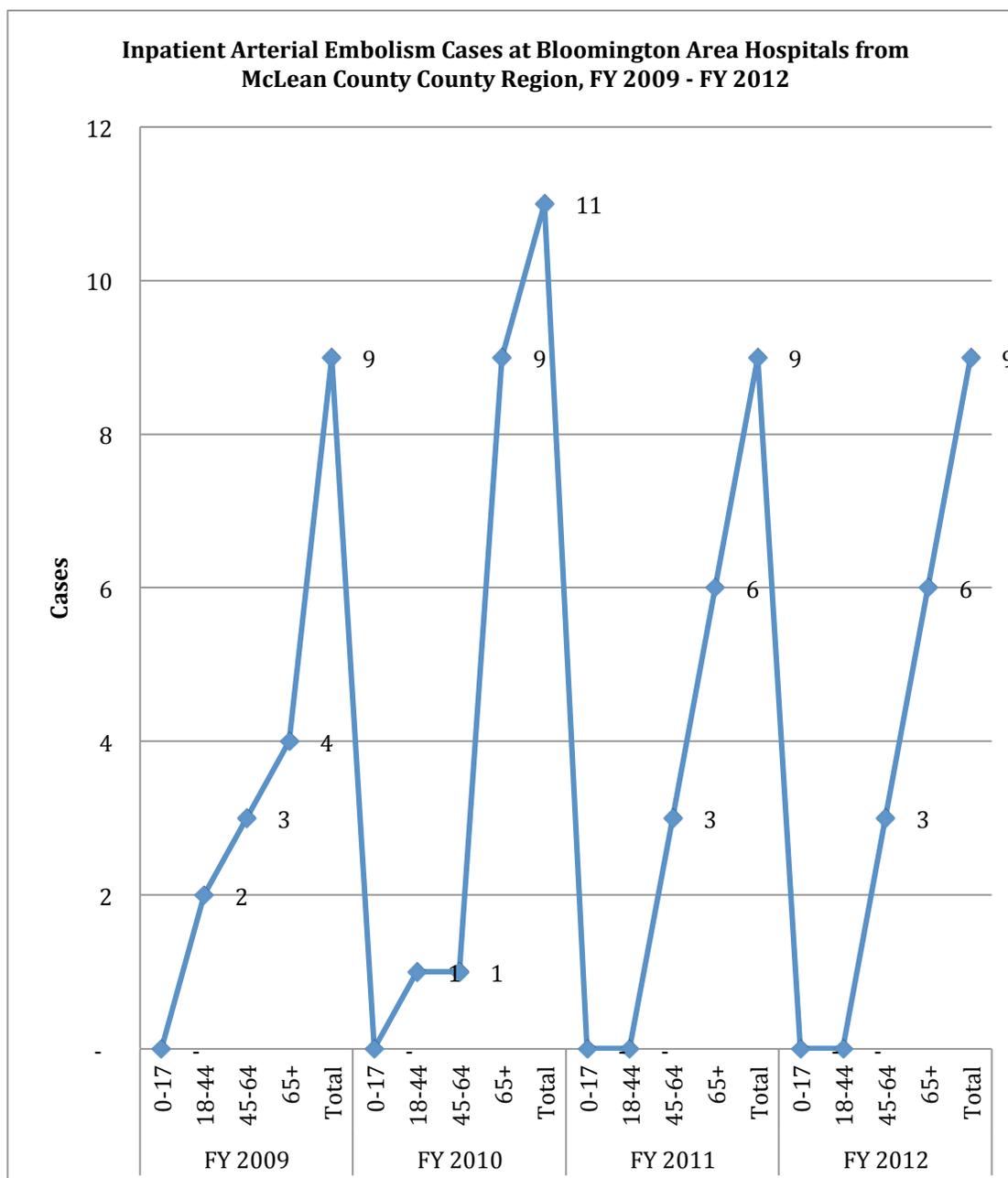


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

Cases of arterial embolism at Bloomington area hospitals in McLean County have remained constant across three of the four years, as nine cases were reported in FY 2009, 2011, and 2012. In FY 2009, there were eleven reported cases of arterial embolism.

Table 4.2.2-3 Inpatient Arterial Embolism Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

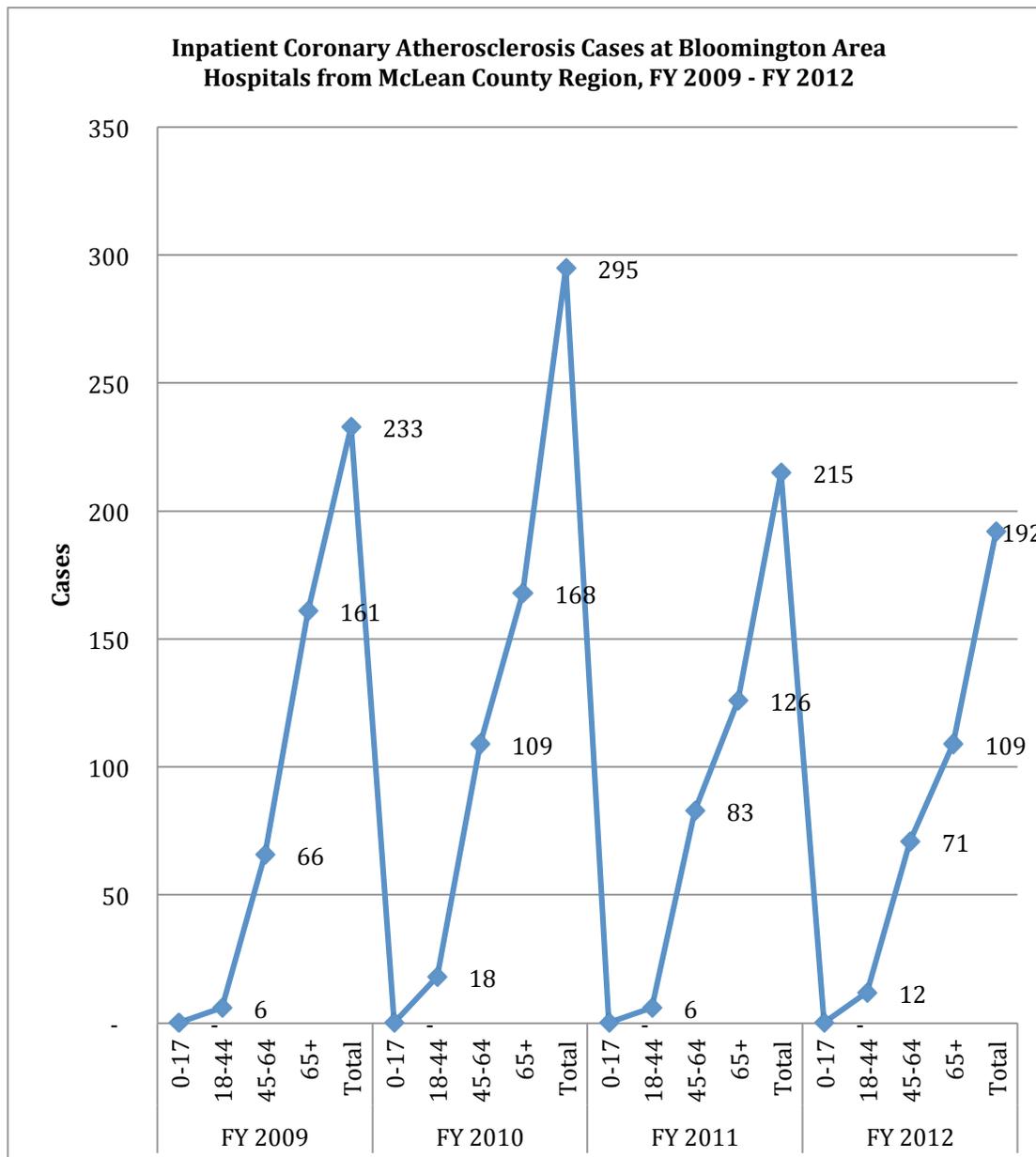


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

Cases of coronary atherosclerosis at Bloomington area hospitals from McLean County have decreased 17% between FY 2009 and FY 2012. After peaking in FY 2010 when 295 cases were reported, 192 cases were reported in FY 2012. Cases in individuals age 45-64 increased by 8% between FY 2009 and FY 2012.

Table 4.2.2-4 Inpatient Coronary Atherosclerosis Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

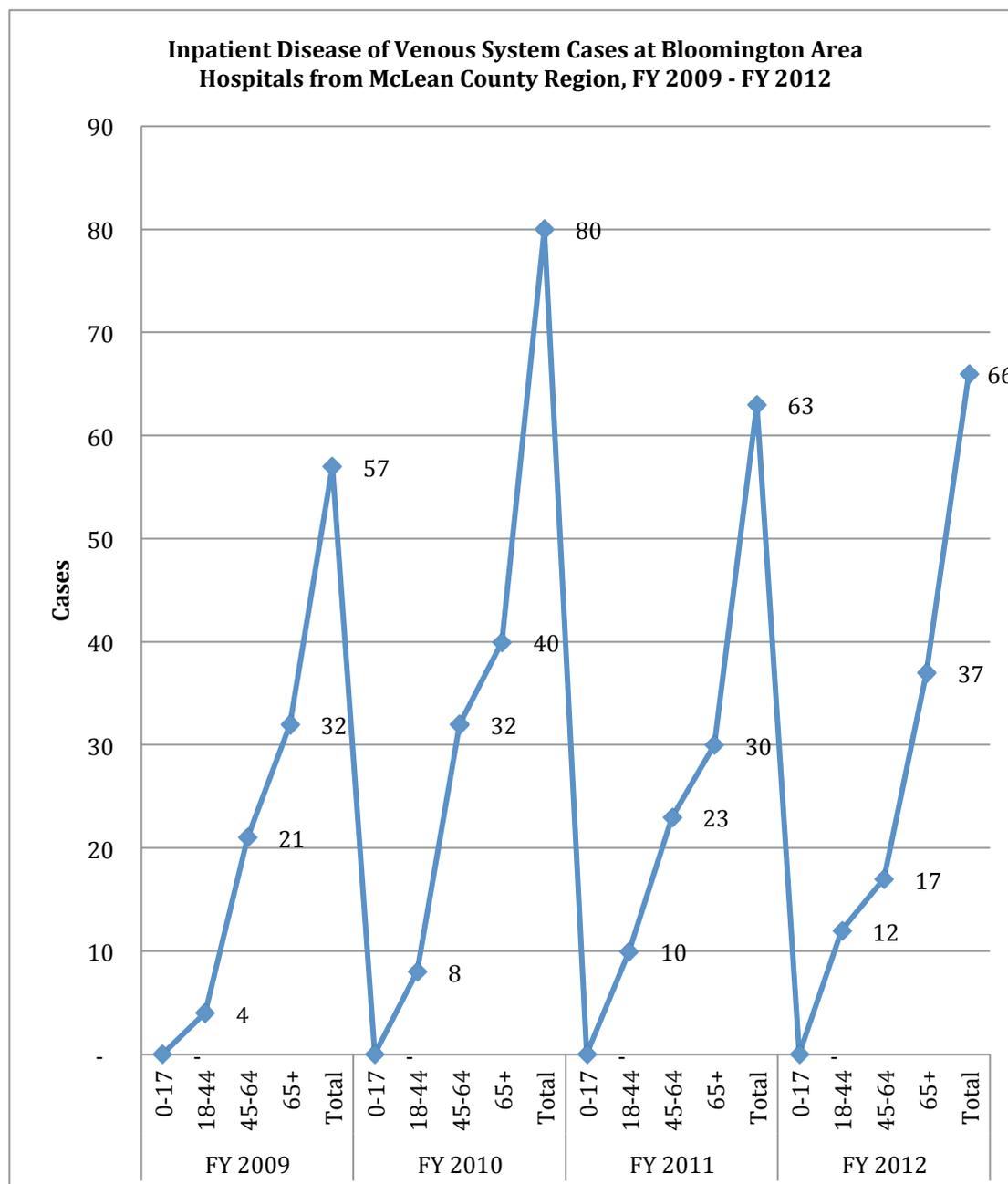


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

The number of cases of inpatient disease of the venous system at Bloomington area hospitals from the McLean County region has increased 16% between 2009 (57 cases) and 2012 (66 cases). Disease of the venous system cases peaked in FY 2010 when 80 cases were reported.

Table 4.2.2-5 Inpatient Disease of Venous System Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

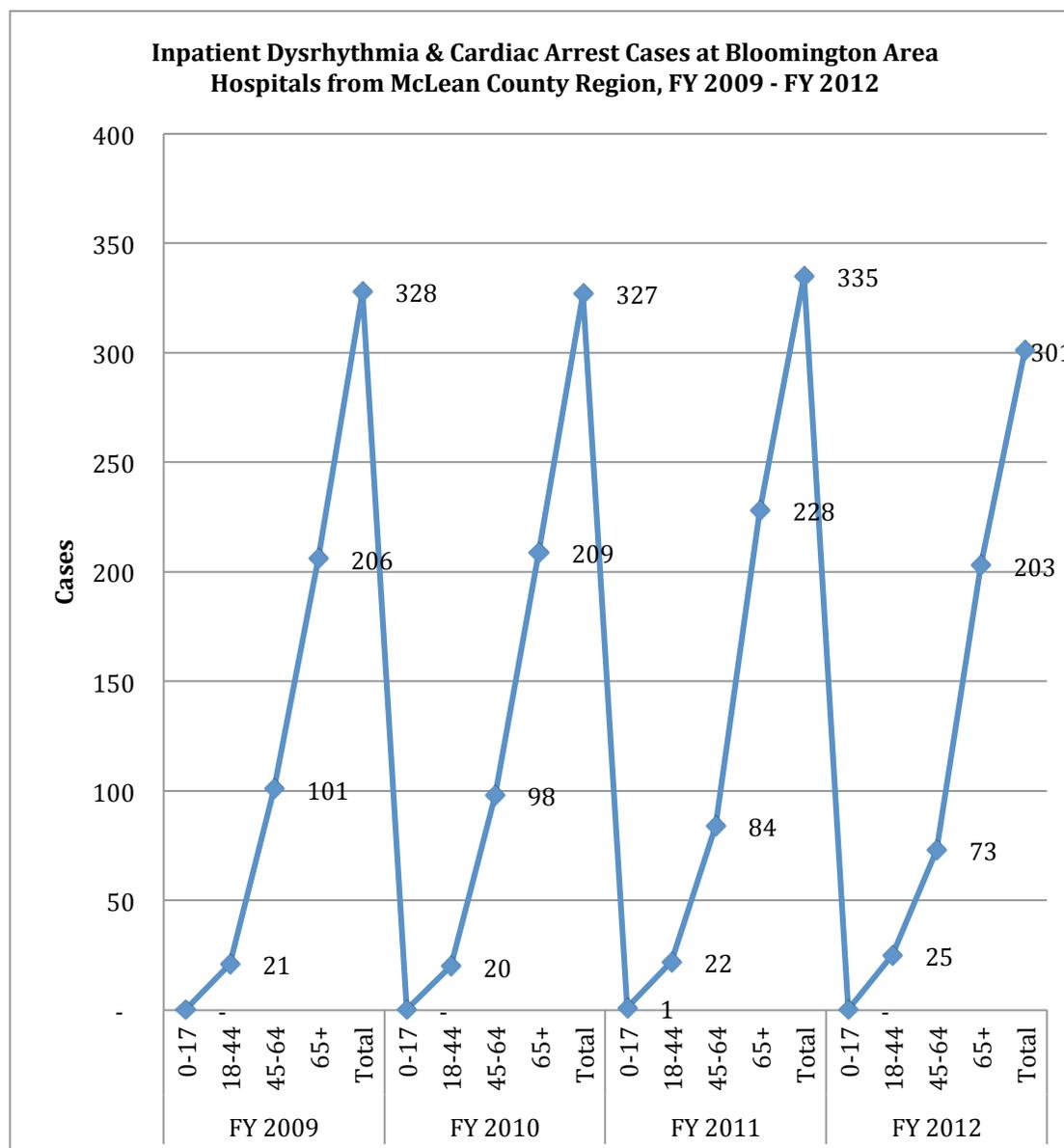


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

Cases of dysrhythmia and cardiac arrest at Bloomington area hospitals from McLean County have decreased by 8% between FY 2009 and FY 2012. Conversely, the number of cases for individuals aged 18-44 increased 19% for inpatient admissions.

Table 4.2.2-6 Inpatient Dysrhythmia & Cardiac Arrest Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

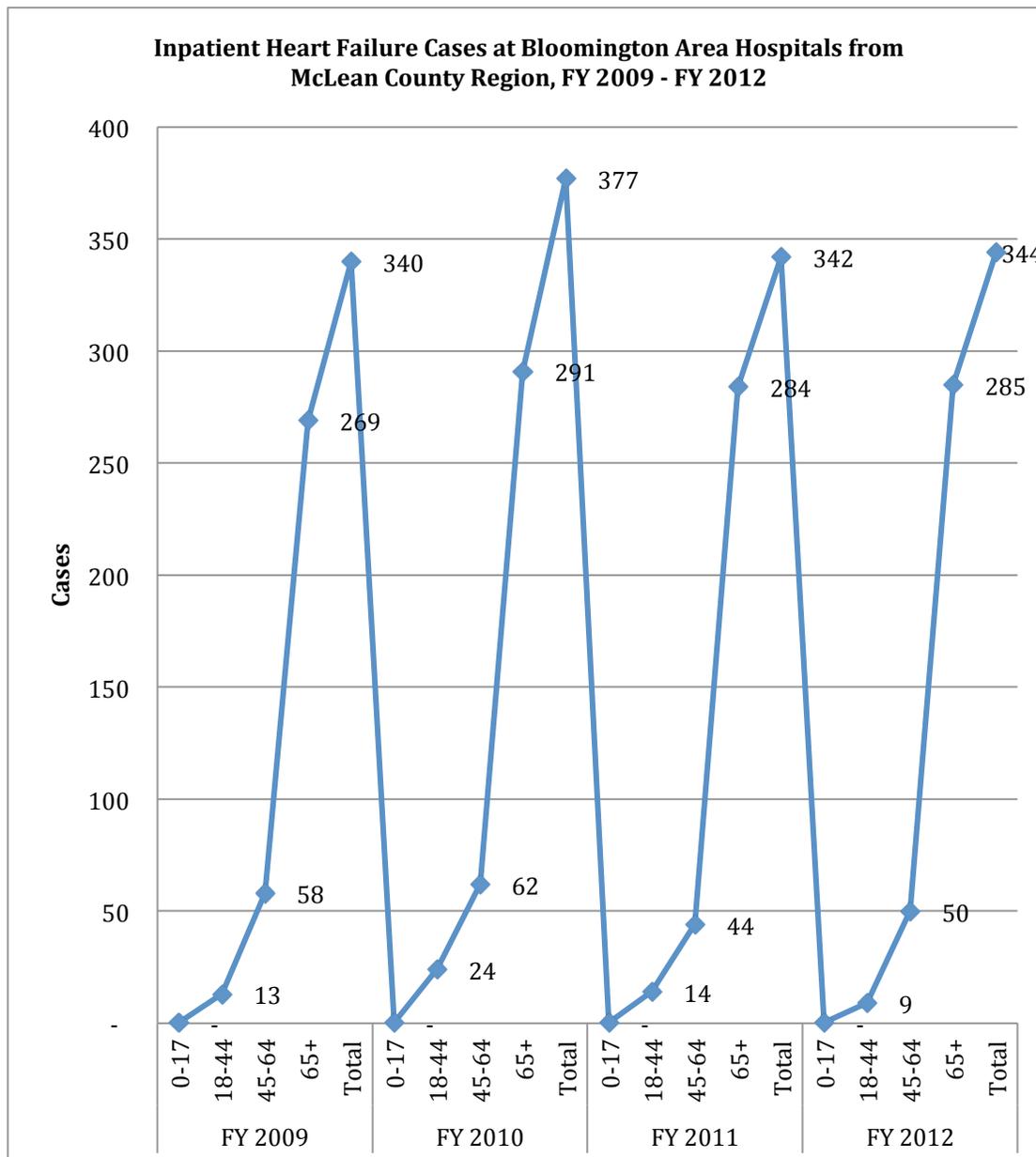


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

There has been a 1% increase in the number of treated cases of heart failure at Bloomington area hospitals from McLean County between FY 2009 and FY 2012. However, the number of cases for individuals aged 65 years of age and older increased by 6% during the same time frame (269 cases in FY 2009 and 285 cases in FY 2012).

Table 4.2.2-7 Inpatient Heart Failure Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

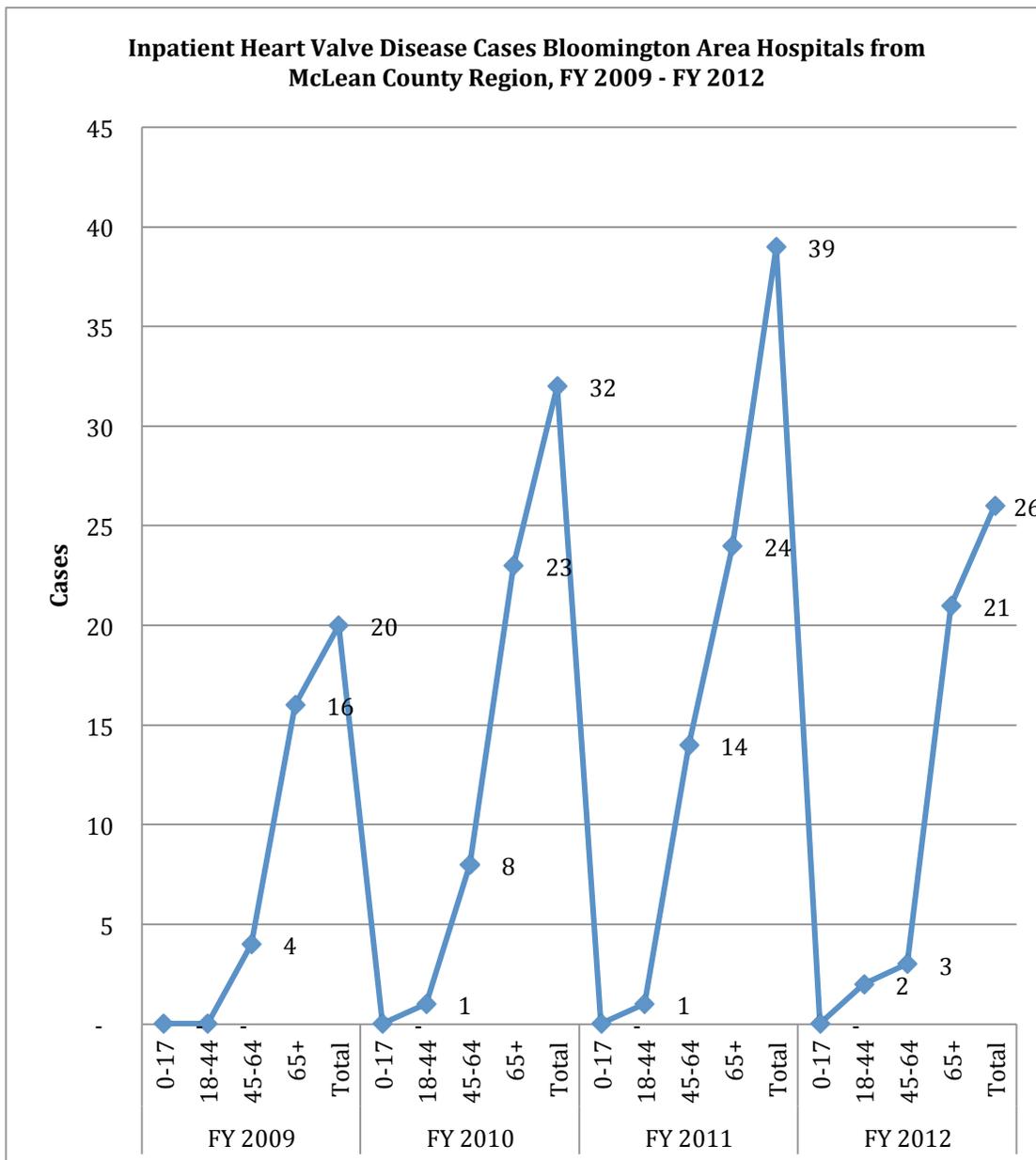


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

Between FY 2009 and FY 2012, there was an average of 29 reported cases of heart valve disease at Bloomington area hospitals in McLean County. Cases of heart valve disease peaked in FY 2011 with 39 cases and recent data indicate 26 cases were reported in FY 2012.

Table 4.2.2-8 Inpatient Heart Valve Disease Cases Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

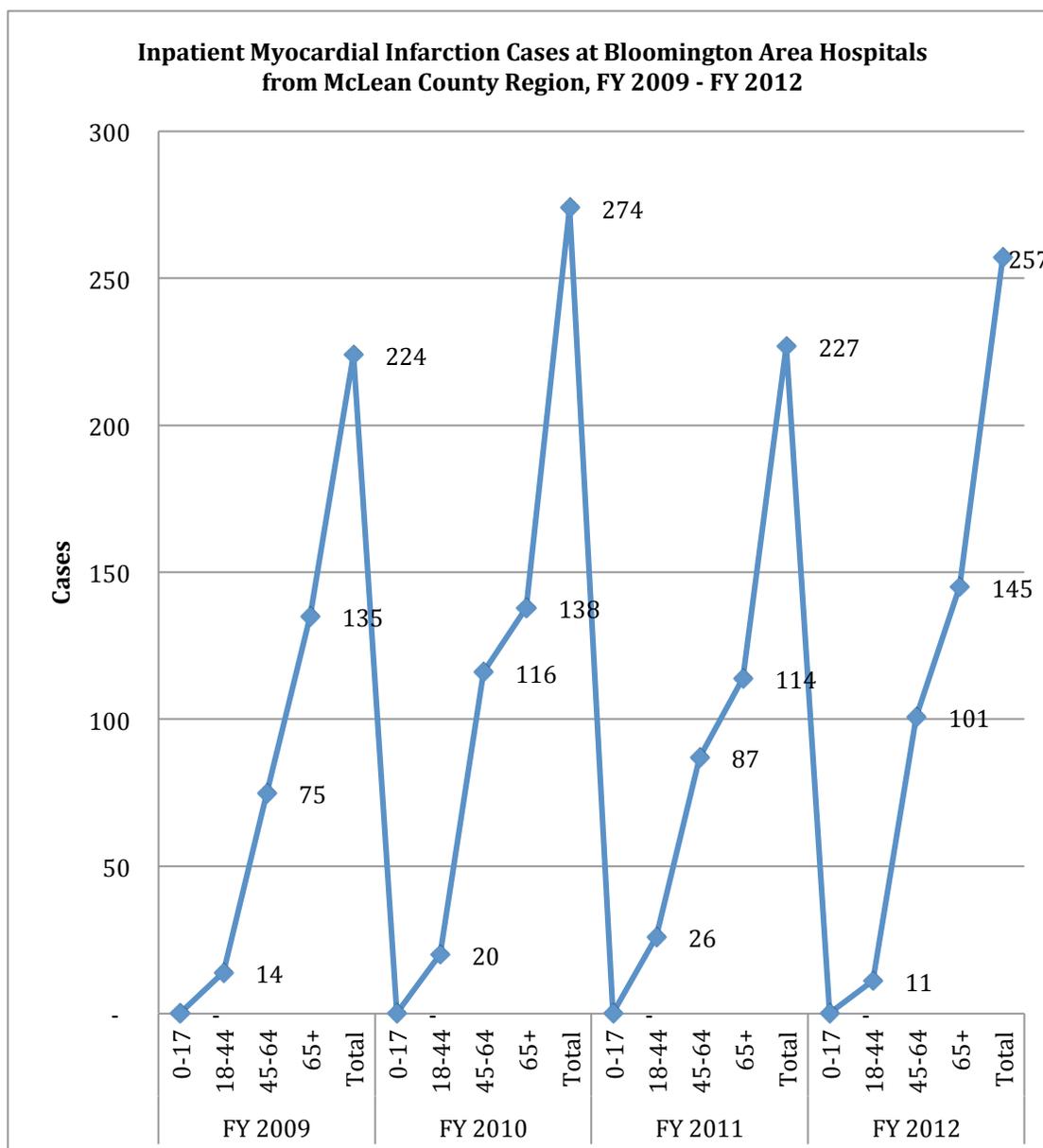


Source: COMPdata 2012

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Cases of myocardial infarction at Bloomington area hospitals from McLean County have increased by 14.7% between FY 2009 and FY 2012 and peaked in FY 2010 with 274 reported cases. The number of cases of inpatient myocardial infarction for individuals 45 to 64 years of age has increased 35% between 2009 (75 cases) and 2012 (101 cases).

Table 4.2.2-9 Inpatient Myocardial Infarction Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



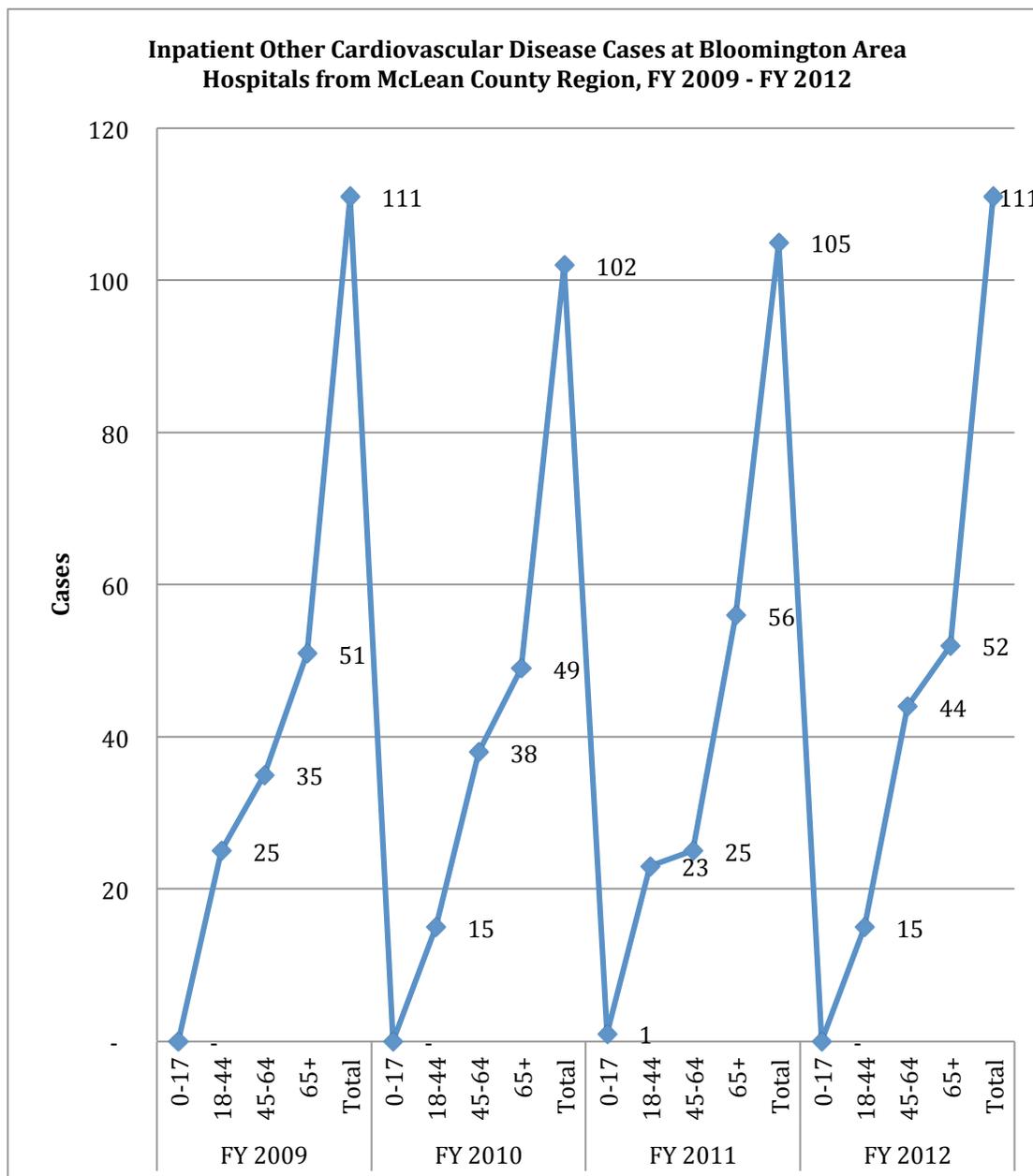
Source: COMPdata 2012

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An average of 107 cases of other cardiovascular disease at Bloomington area hospitals from McLean County were reported between FY 2009 and FY 2012 for inpatient admissions.

Of particular interest, cases of other cardiovascular disease in individuals aged 45-64 increased by 26% during the same time frame for inpatient admissions.

Table 4.2.2-10 Inpatient Other Cardiovascular Disease Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



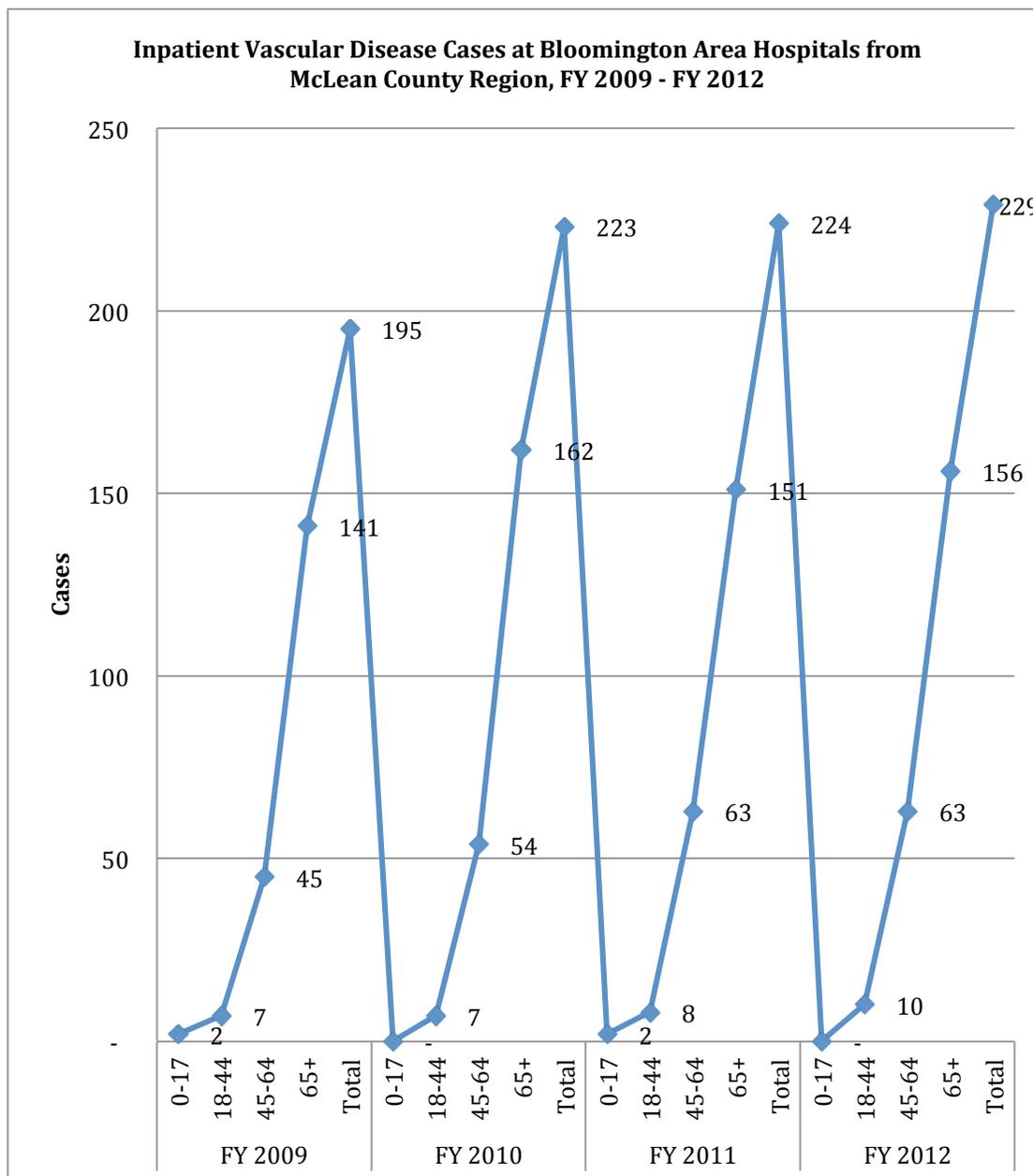
Source: COMPdata 2012

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Cases of vascular disease at Bloomington area hospitals from McLean County have increased by 17% between FY 2009 and FY 2012 for inpatient admissions.

Of particular interest, cases of vascular disease in individuals aged 45-64 have increased by 40% during the same time frame for inpatient admissions.

Table 4.2.2-11 Inpatient Vascular Disease Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

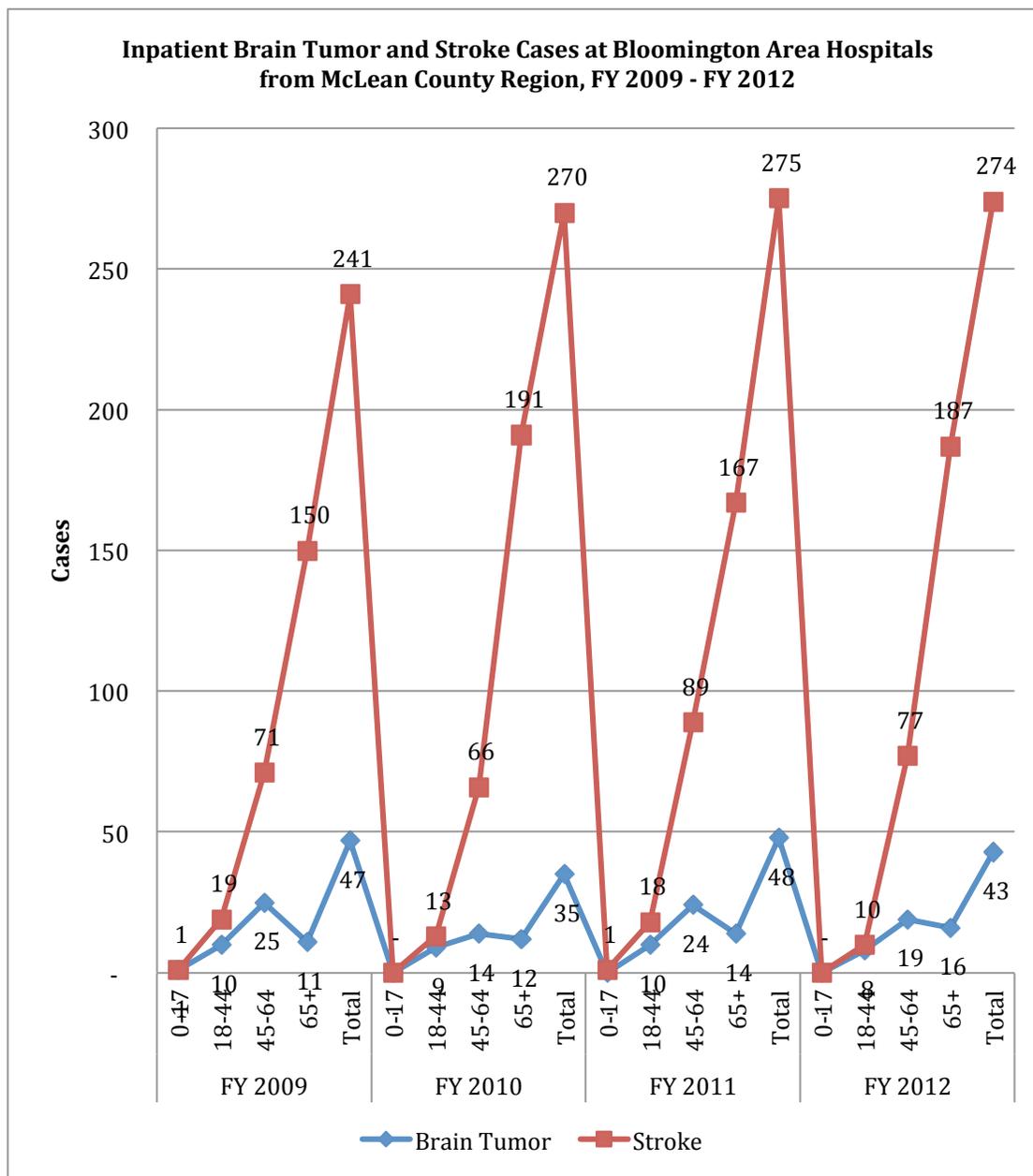


Source: COMPdata 2012

4.2.3 Stroke

Cases of stroke at Bloomington area hospitals from McLean County have increased by 14% between FY 2009 and FY 2012 for inpatient admissions. An average of 43 cases of brain tumor are reported annually with 43 cases reported in FY 2012.

Table 4.2.3-1 Inpatient Brain Tumor and Stroke Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

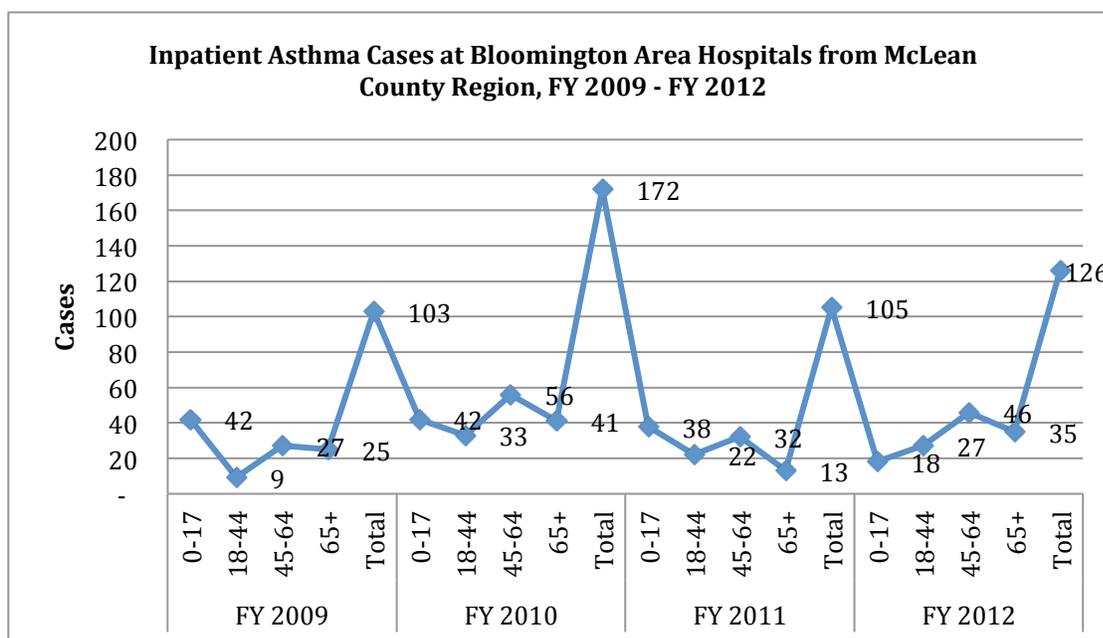
4.3 Respiratory

Importance of the measure: Disease of the respiratory system includes acute upper respiratory infections such as influenza, pneumonia, bronchitis, asthma, emphysema, and Chronic Obstructive Pulmonary Disease (COPD). These conditions are characterized by breathlessness, wheezing, chronic coughing, frequent respiratory infections, and chest tightness. Many respiratory conditions can be successfully controlled with medical supervision and treatment. However, children and adults who do not have access to adequate medical care are likely to experience repeated serious episodes, trips to the emergency room and absences from school and work. Hospitalization rates illustrate the worst episodes of respiratory diseases and are a proxy measure for inadequate treatment.

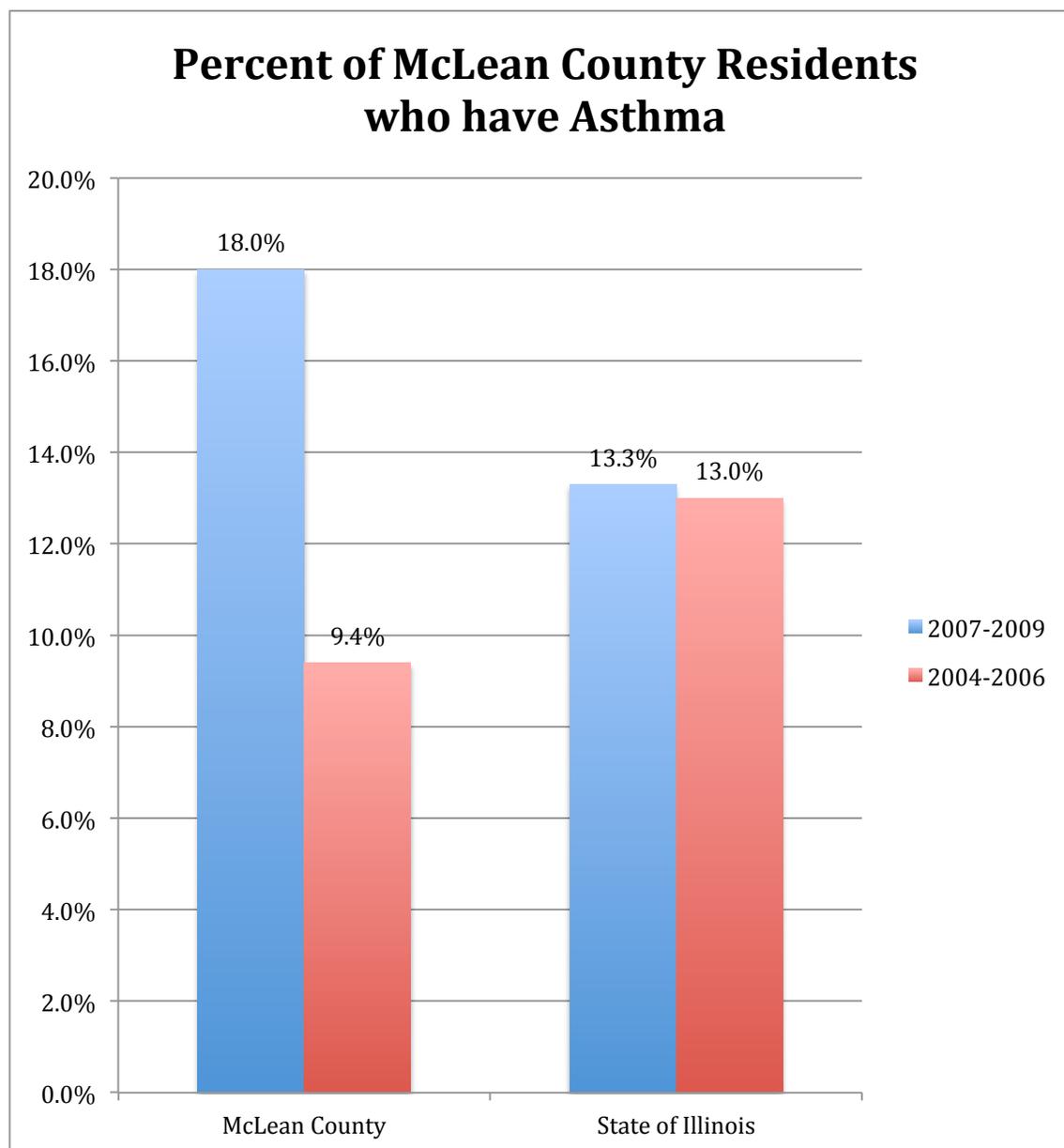
4.3.1 Asthma

Treated cases of asthma at Bloomington area hospitals from McLean County have increased by 10% between FY 2009 and FY 2012 for inpatient admissions. Of particular interest, cases of asthma in individuals age 18-44 have increased 200% for inpatient admissions (27 cases in FY 2012 vs. 9 cases in FY 2009). According to the Illinois BRFSS, asthma rates in the McLean County are higher than the average rate for the State of Illinois and have grown at a faster rate.

Table 4.3.1-1 Inpatient Asthma Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



Source: COMPdata 2012

Table 4.3.1-2 Percent of McLean County Residents who have Asthma

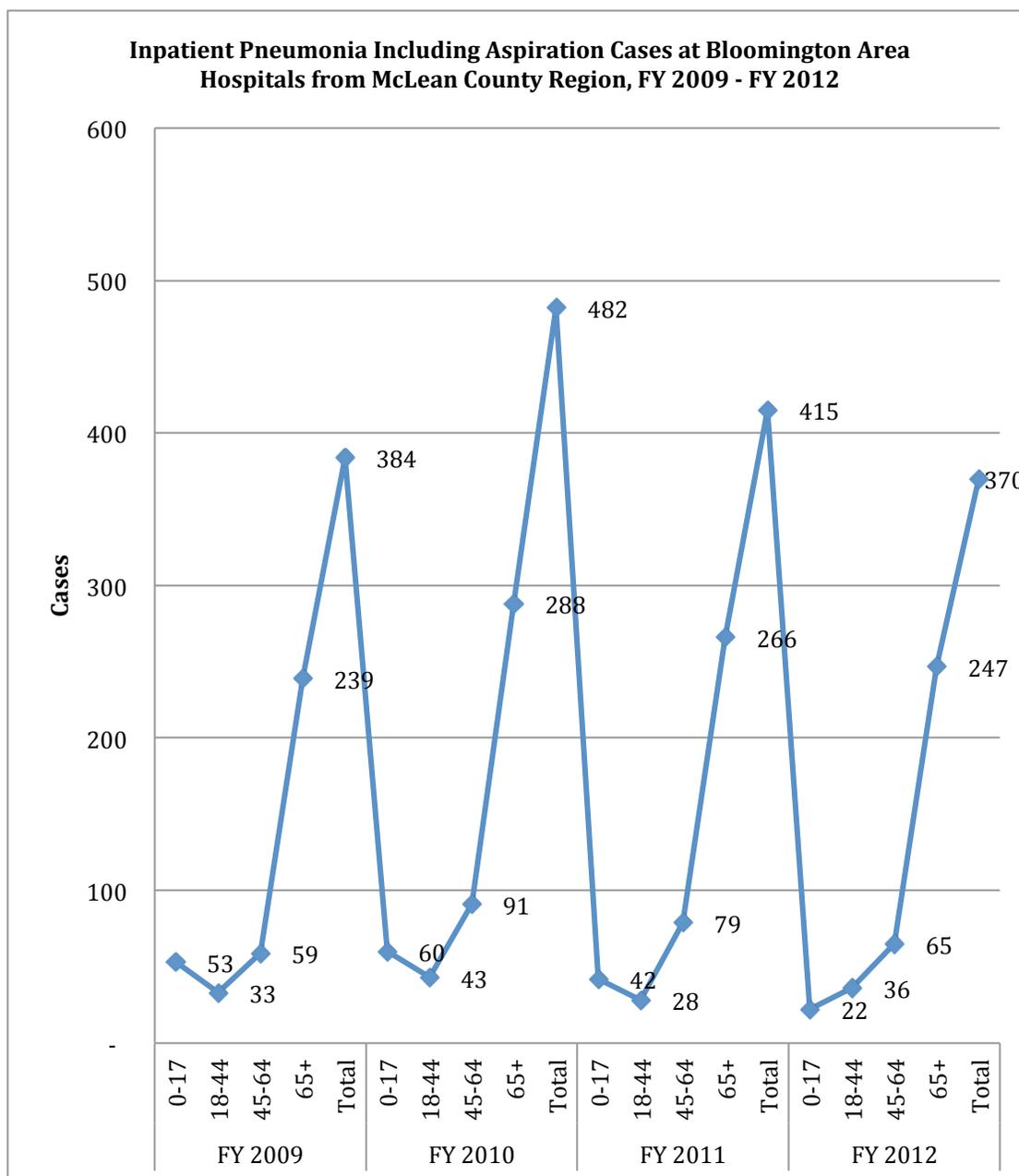
Source: Illinois Department of Public Health

St. Joseph Medical Center Community Health-Needs Assessment

4.3.2 Pneumonia

Treated cases of pneumonia at Bloomington area hospitals from McLean County have decreased by 4% between FY 2009 and FY 2012 for inpatient admissions. However, cases of asthma in individuals 45-64 years of age have increased 10% during the same time frame.

Table 4.3.2-1 Inpatient Pneumonia Including Aspiration Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



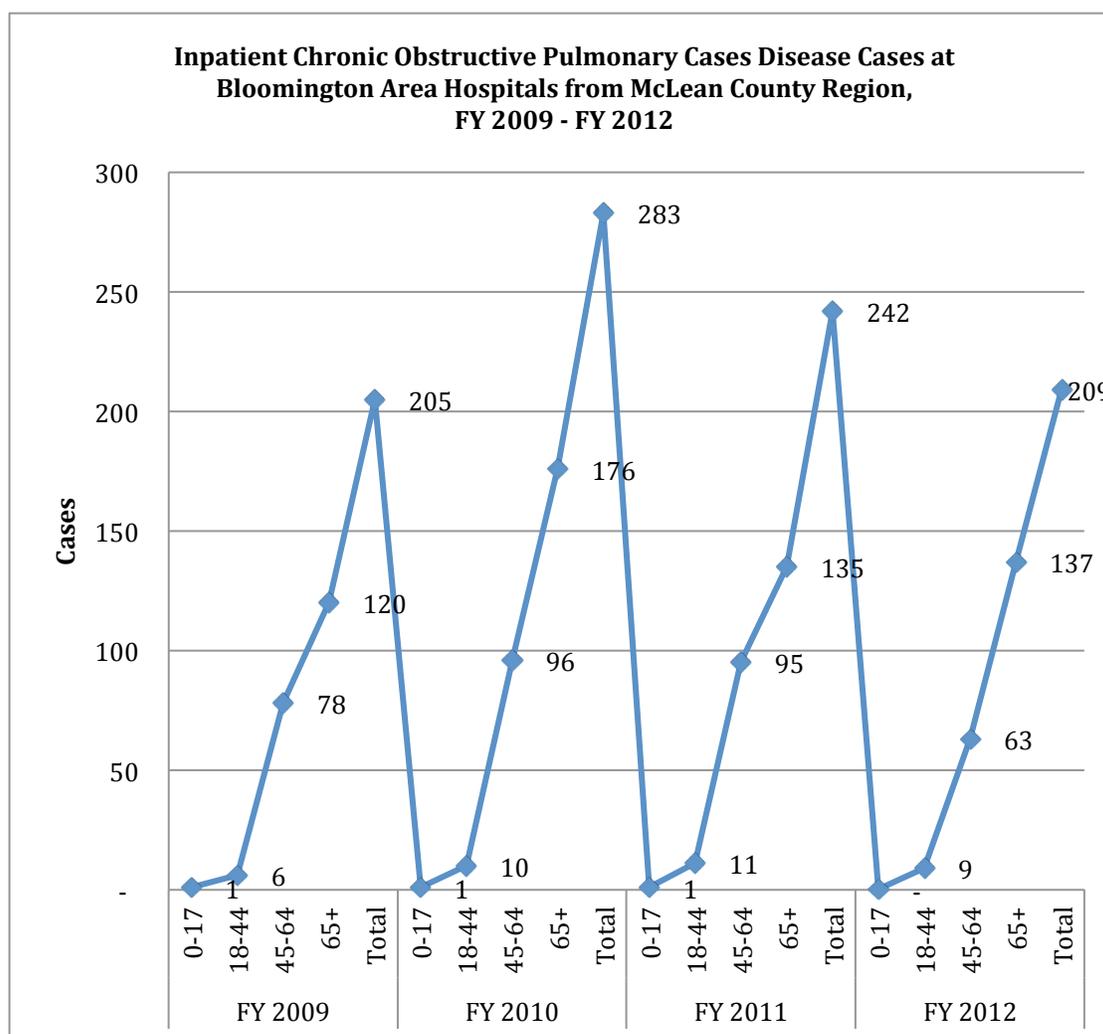
Source: COMPdata 2012

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4.3.3 COPD

There has been a 2% increase in the number of treated cases of COPD at Bloomington area hospitals from McLean County between FY 2009 and FY 2012 for inpatient admissions. The number of cases for individuals 65 years and older has increased 14% during the same time frame.

Table 4.3.3-1 Inpatient Chronic Obstructive Pulmonary Cases Disease Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



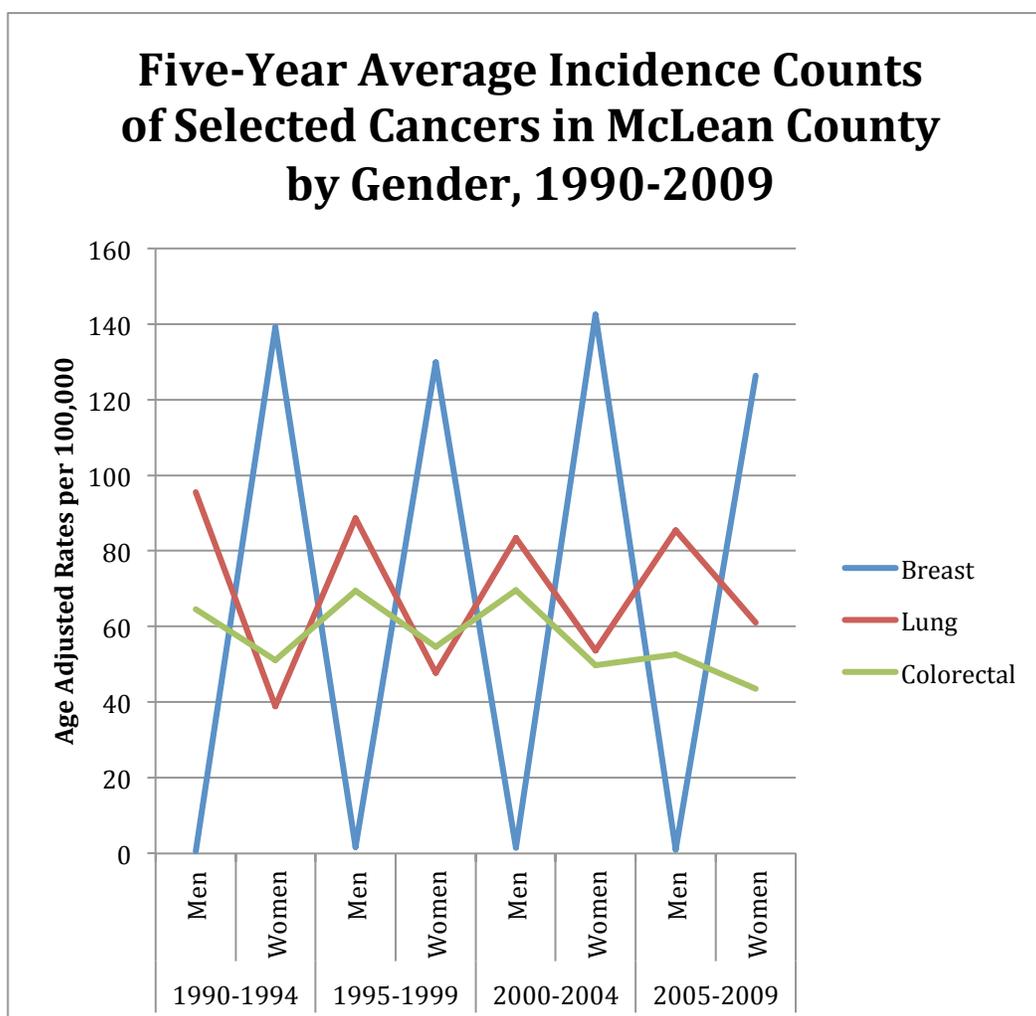
Source: COMPdata 2012

4.4 Cancer

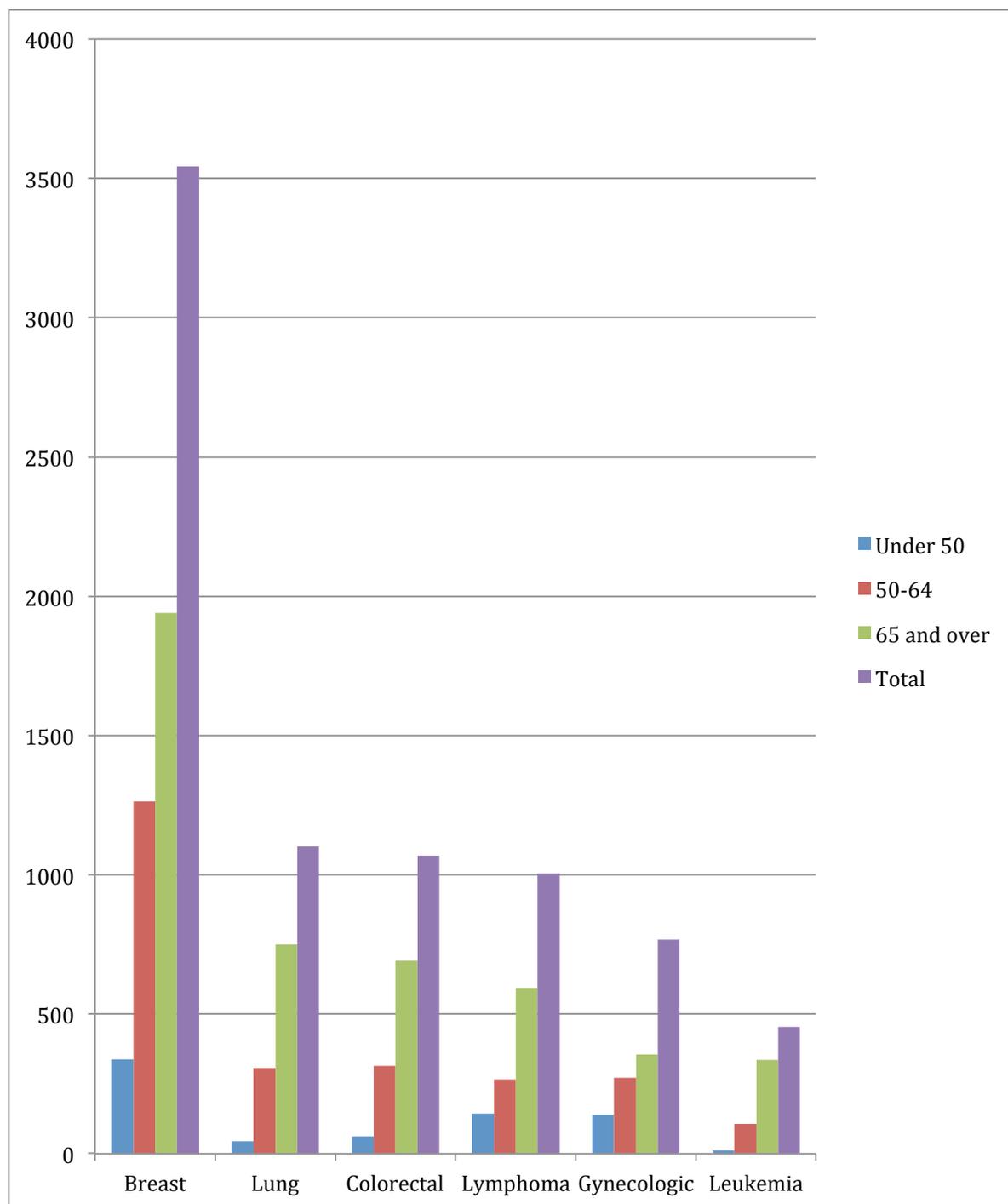
Importance of the measure: Cancer is caused by the abnormal growth of cells in the body and many causes of cancer have been identified. Generally, each type of cancer has its own symptoms, outlook for cure, and methods for treatment. Cancer is one of the leading causes of death in McLean County.

Table 4.4-1 provides longitudinal data on the incidence counts of breast, lung, and colorectal cancers in McLean County. Tables 4.4-2 and 4.4-3 offer insight into the number of treated cases of the top 6 cancers by treatment in Illinois by age and percentage breakdown by gender.

Table 4.4-1 Five-Year Average Incidence Counts of Selected Cancers in McLean County by Gender, 1990-2009

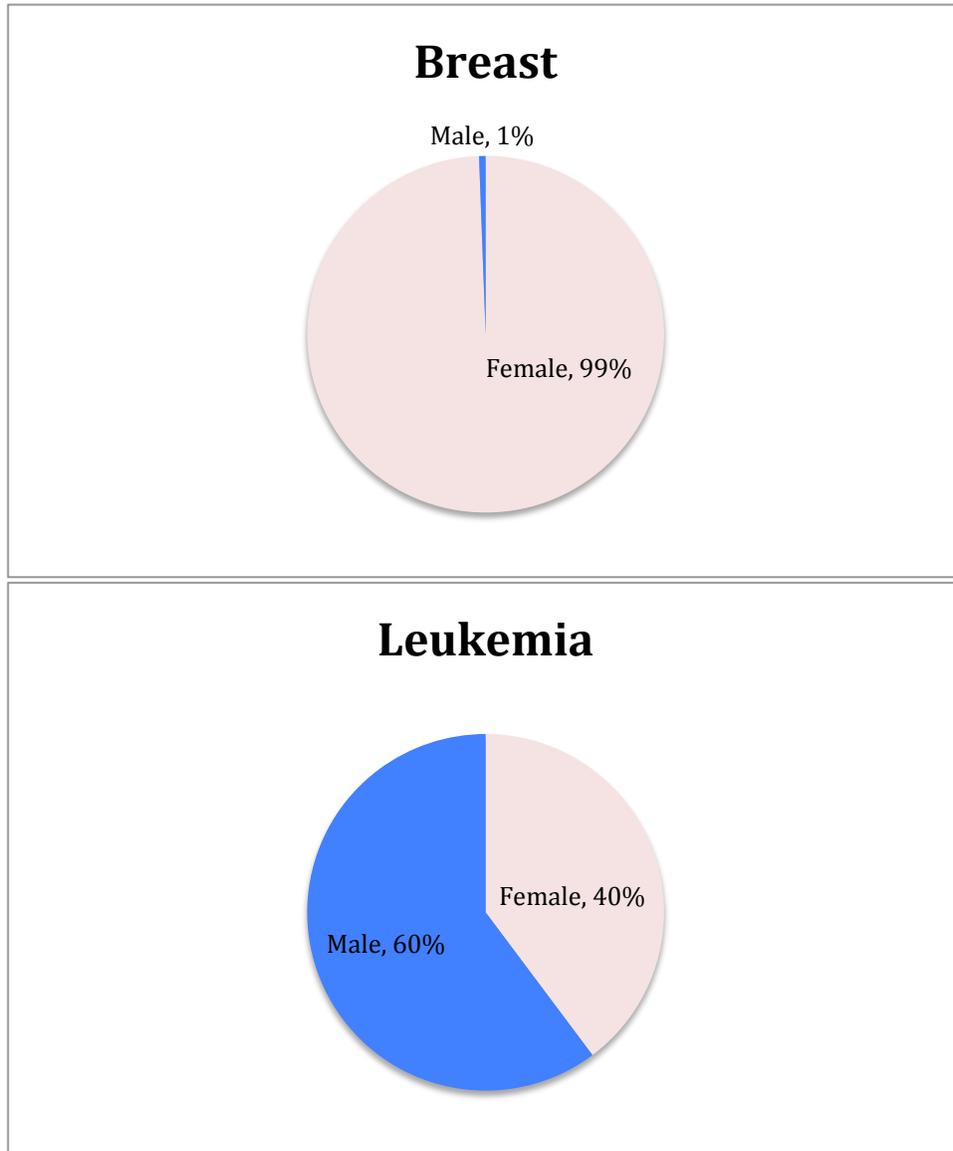


Source: IL Department of Public Health

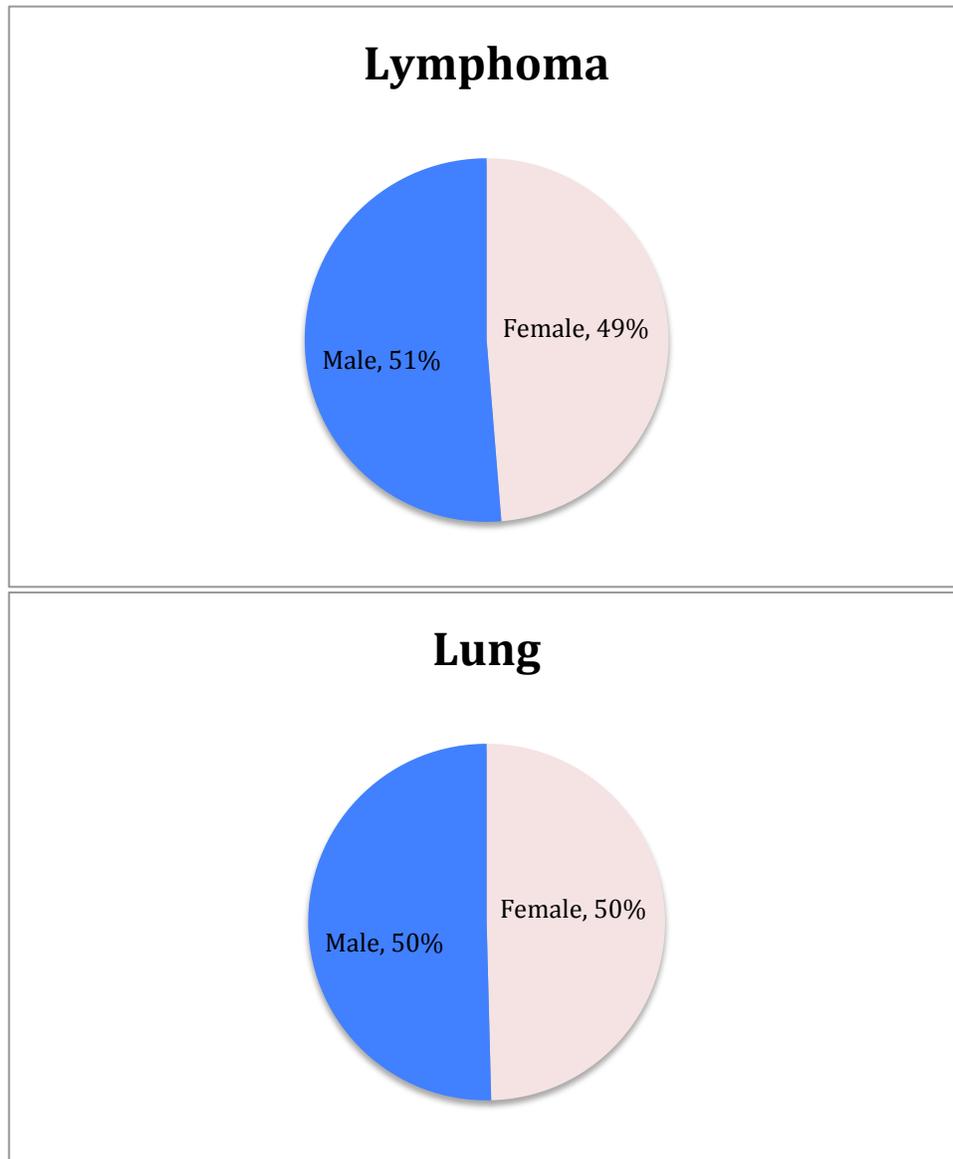
Table 4.4-2 Top 6 Cancers by Treatment

Source: *IL Cancer Care, 2011*

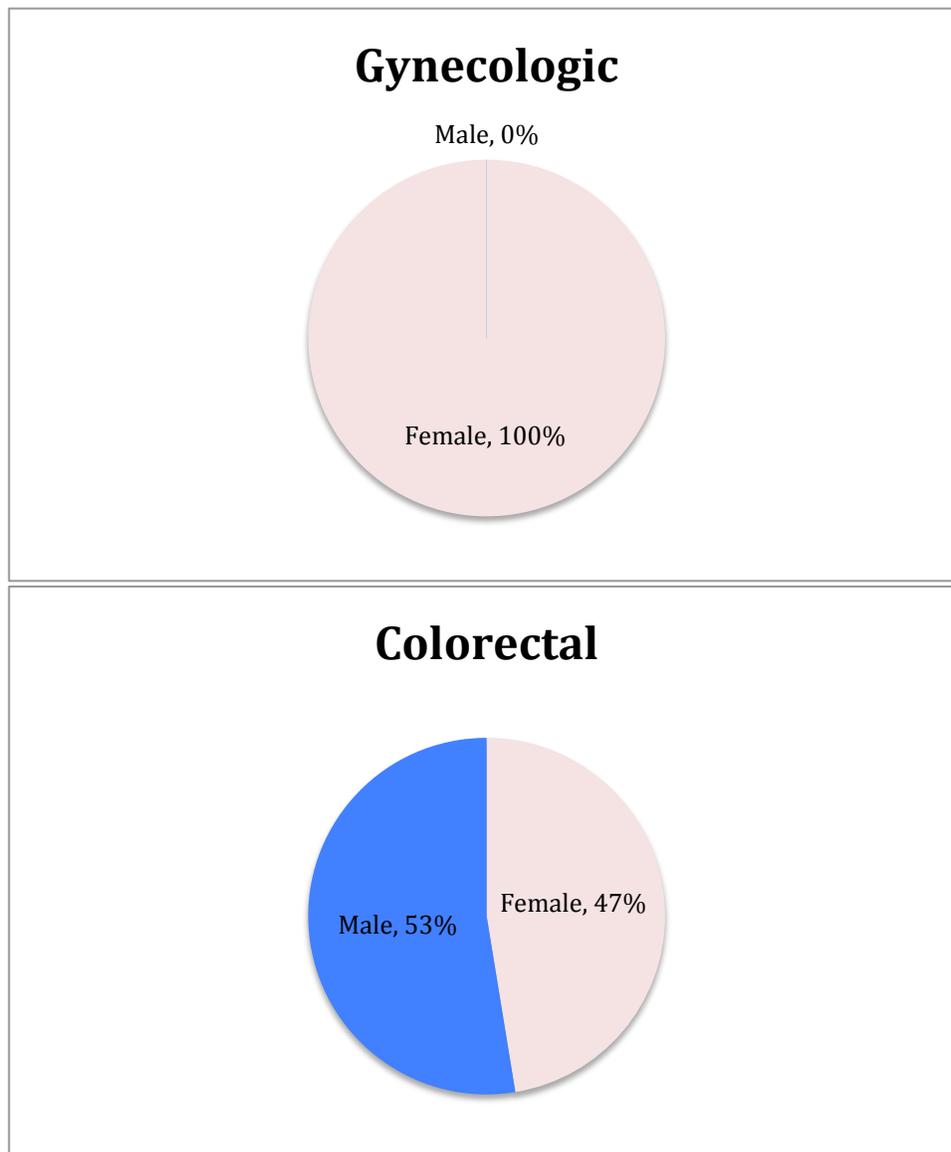
Table 4.4-3 Cancer by Gender



Source: IL Cancer Care, 2011



Source: IL Cancer Care, 2011



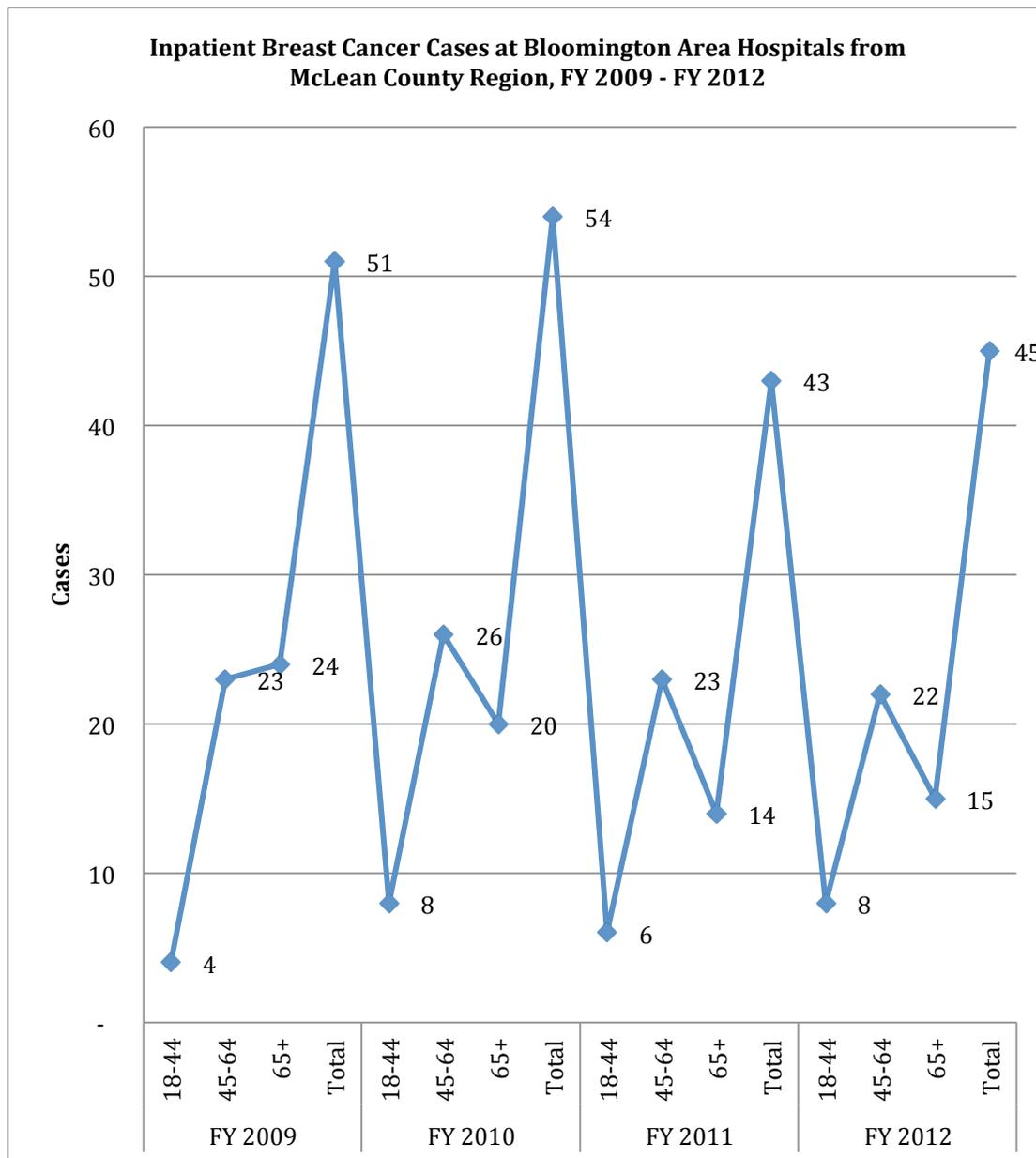
Source: IL Cancer Care, 2011

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4.4.1 Carcinoma

Between FY 2009 and FY 2012, an average of 48 reported cases of inpatient breast cancer was reported at Bloomington area hospitals from McLean County. While overall cases have decreased 12% between FY 2009 and FY 2012, cases in individuals 18-44 have increased 100% (4 cases in FY 2009 and 8 cases in FY 2012).

Table 4.4.1-1 Inpatient Breast Cancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

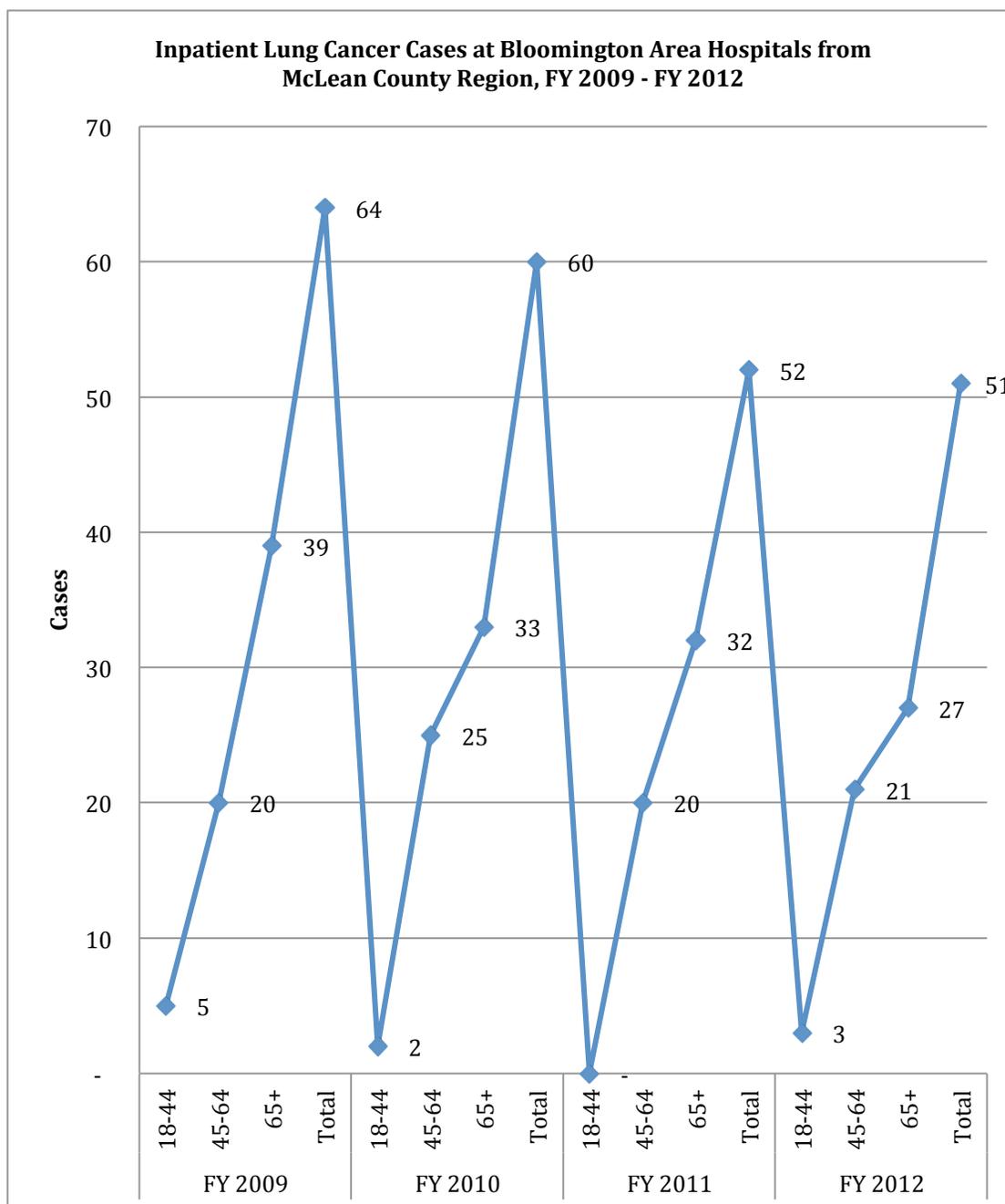


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

Cases of inpatient lung cancer have steadily decreased between FY 2009 and FY 2012 at Bloomington area hospitals in McLean County. Cases in individuals 45-64 years of age have slightly increased during the same time frame (20 cases in FY 2009 and 21 cases in FY 2012).

Table 4.4.1-2 Inpatient Lung Cancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

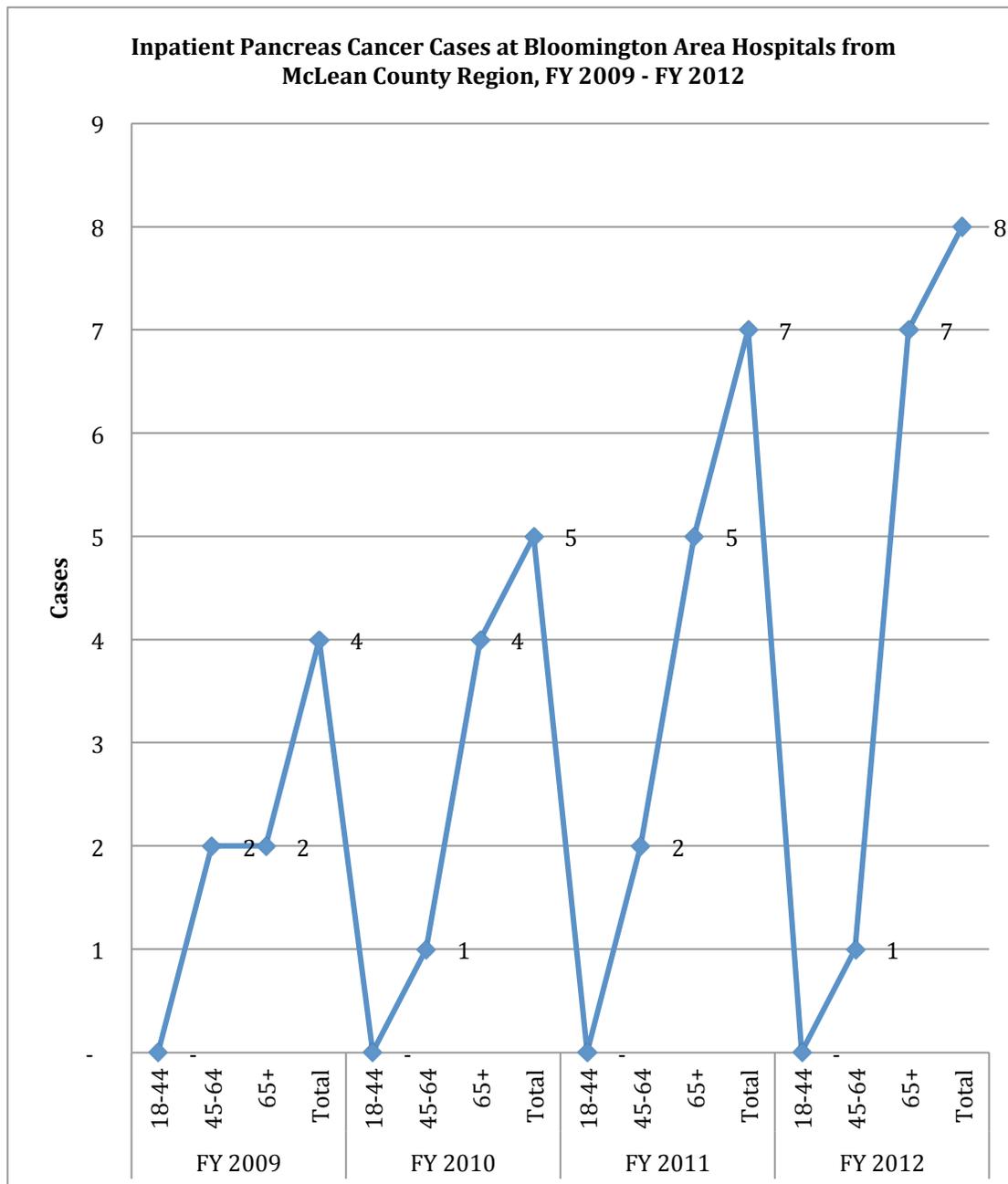


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

The number of cases of inpatient pancreatic cancer at Bloomington area hospitals from the McLean County region has increased 100% between FY 2009 (4 cases) and FY 2012 (8 cases).

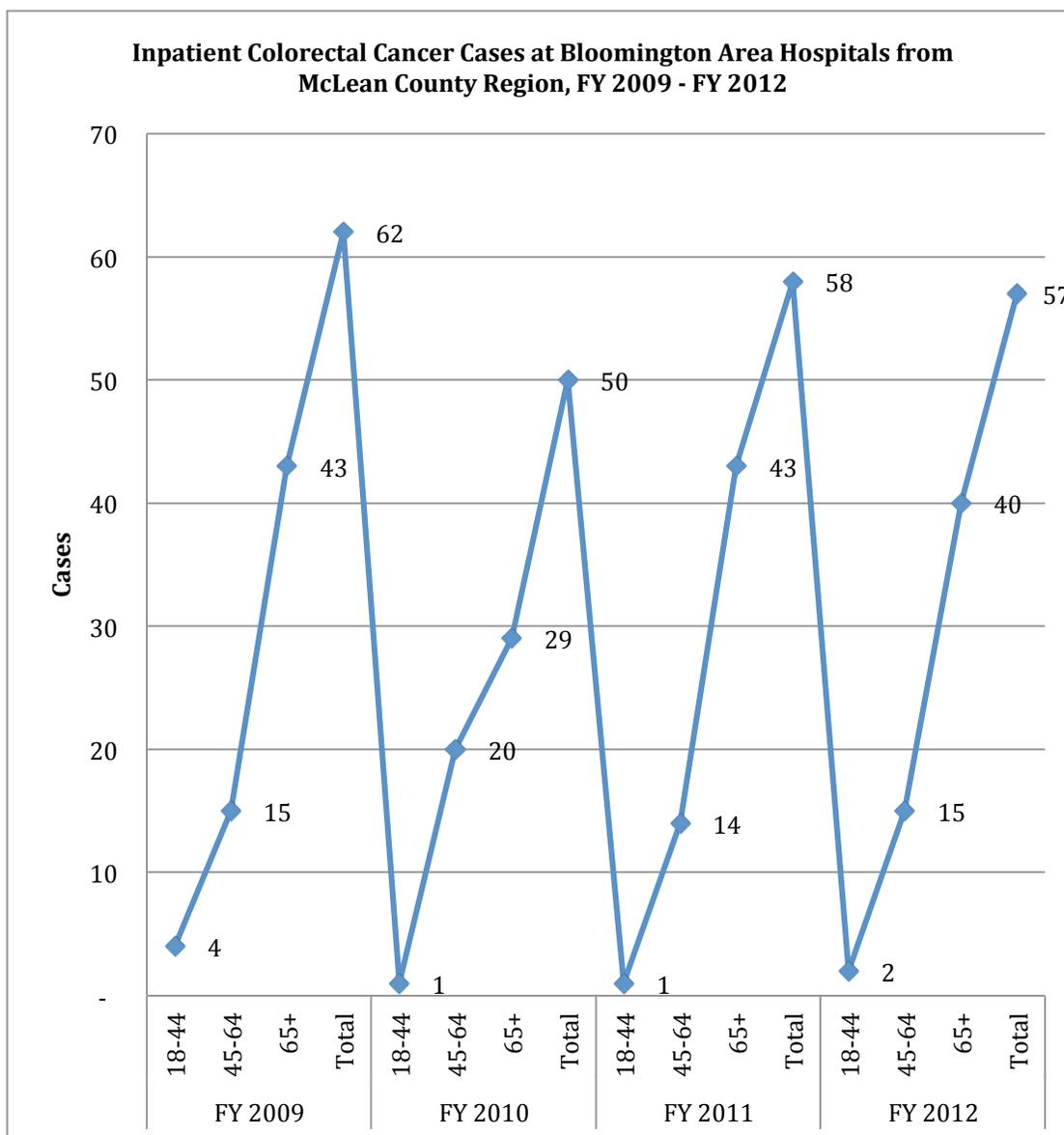
Table 4.4.1-3 Inpatient Pancreas Cancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



Source: COMPdata 2012

Between FY 2009 and FY 2012, there was an average of 57 reported cases of inpatient colorectal cancer at Bloomington area hospitals in McLean County. Overall, cases have decreased 8% during the same time frame. Inpatient cases of colorectal cancer peaked in FY 2009 with 62 cases.

Table 4.4.1-4 Inpatient Colorectal Cancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

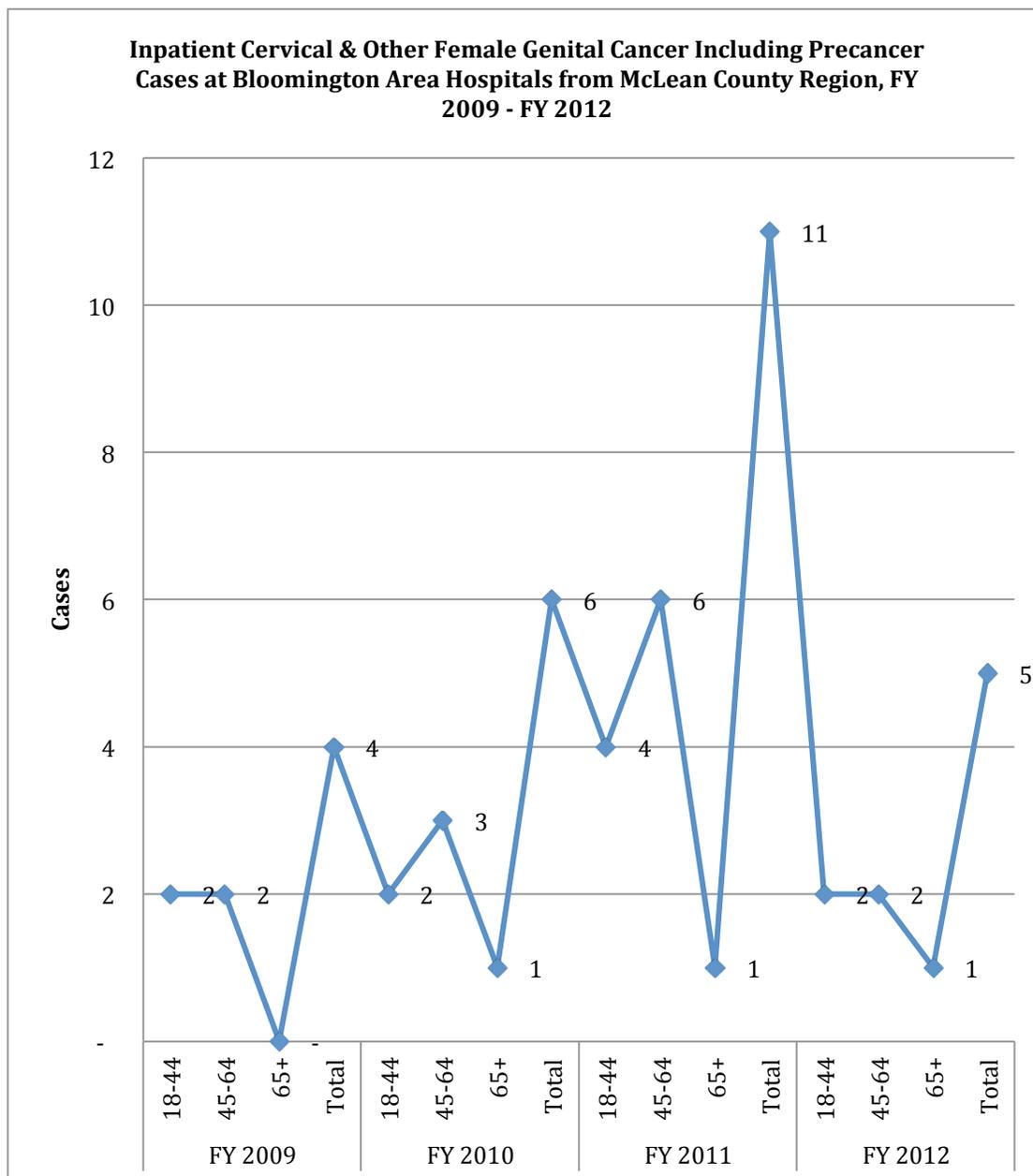


Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

Between FY 2009 and FY 2012, there were 26 cases of inpatient cervical cancer at Bloomington area hospitals from McLean County. Cases of inpatient cervical cancer peaked in FY 2011 when 11 cases were reported.

Table 4.4.1-5 Inpatient Cervical & Other Female Genital Cancer Including Precancer Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



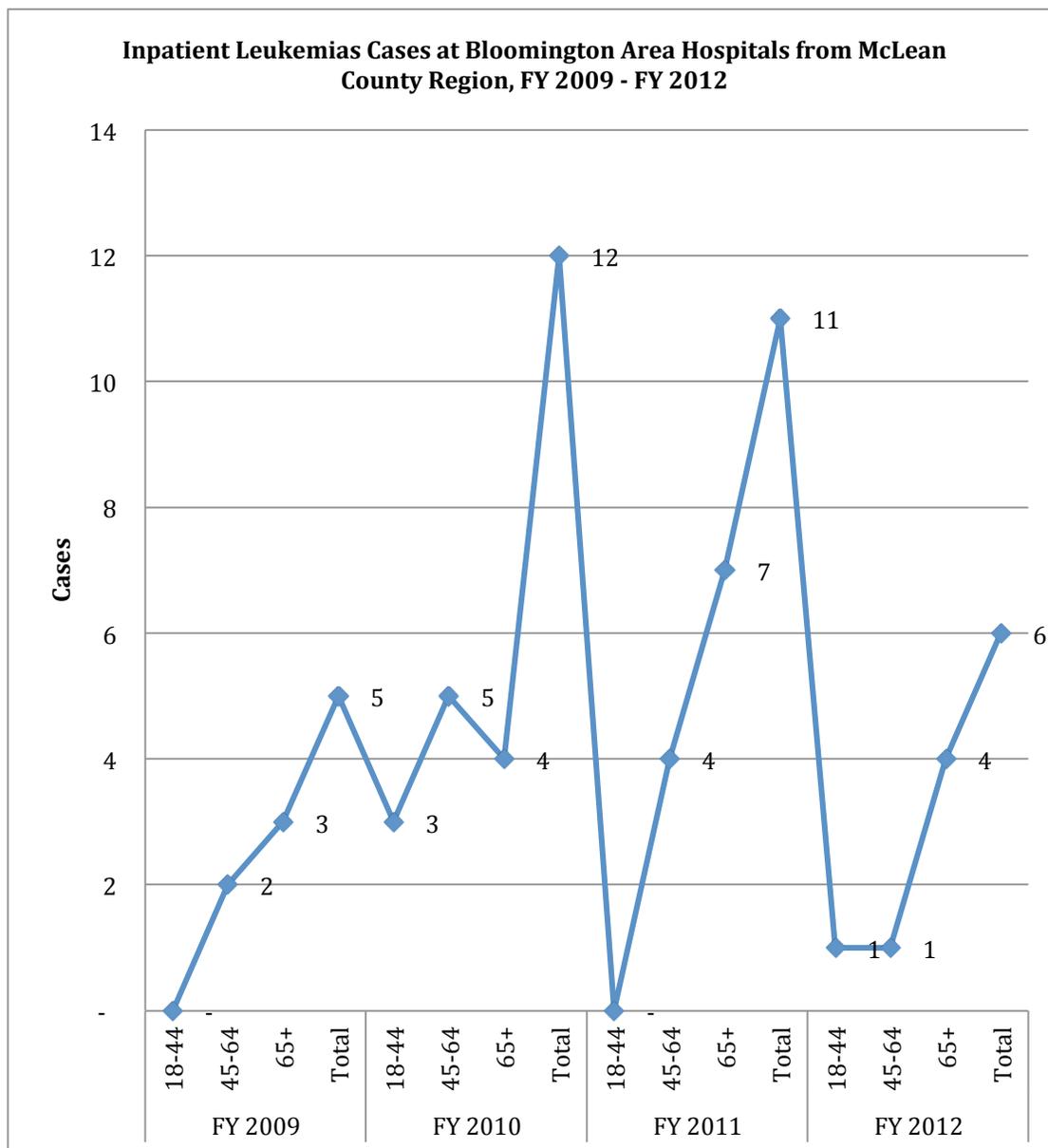
Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

4.4.2 Leukemia

Between FY 2009 and FY 2012, there were 34 cases of inpatient leukemia at Bloomington area hospitals from McLean County. Cases of inpatient leukemia peaked in FY 2010 when 12 cases were reported.

Table 4.4.2-1 Inpatient Leukemia Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



Source: COMPdata 2012

St. Joseph Medical Center Community Health-Needs Assessment

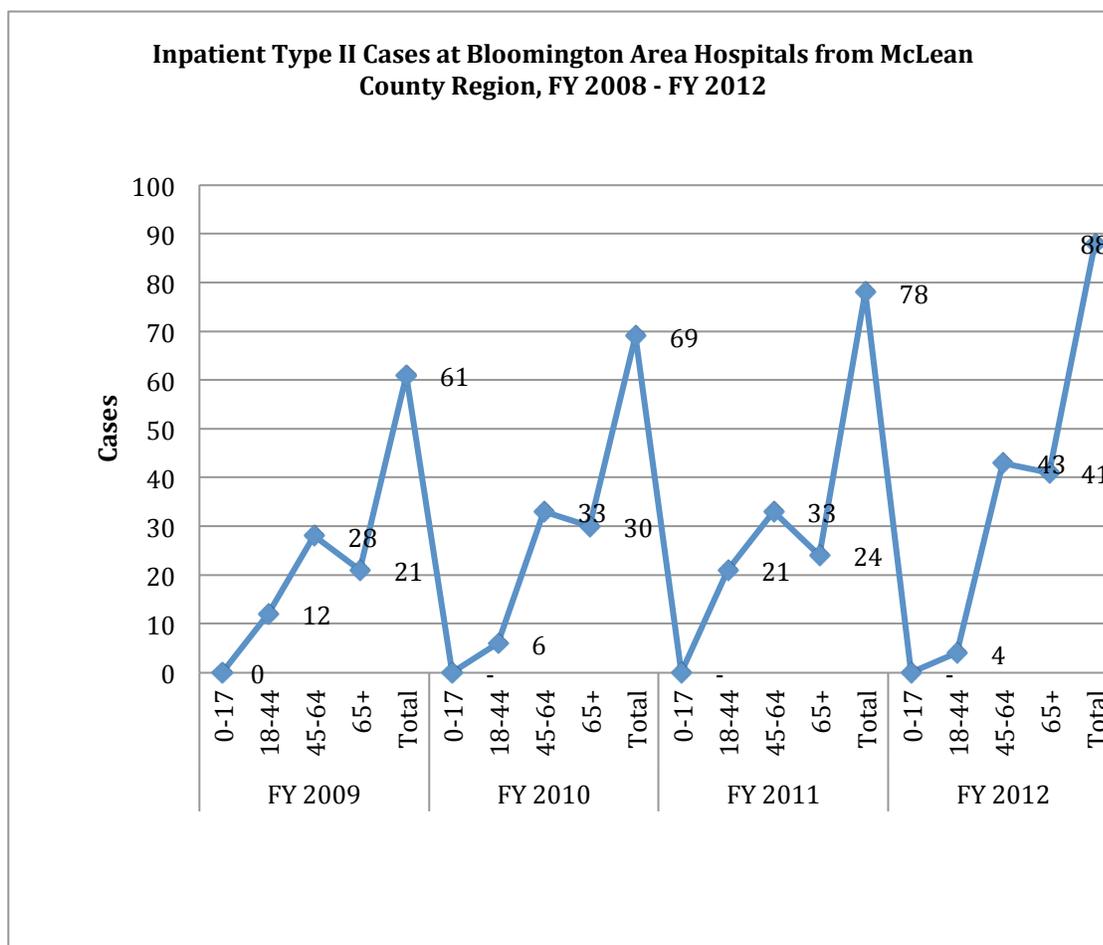
4.5 Type II Diabetes*Importance of the measure:*

Diabetes is the leading cause of kidney failure, adult blindness and amputations and is a leading contributor to strokes and heart attacks. It is estimated that 90-95% of individuals with diabetes have Type II diabetes (previously known as adult-onset diabetes). Only 10-15% of individuals with diabetes have Type I diabetes (previously known as juvenile diabetes).

Cases of Type II diabetes at Bloomington area hospitals from McLean County have increased by 44% between FY 2009 and FY 2012 for inpatient admissions. Cases of Type I diabetes at Bloomington area hospitals from McLean County have increased by 13% between FY 2009 and FY 2012 for inpatient admissions.

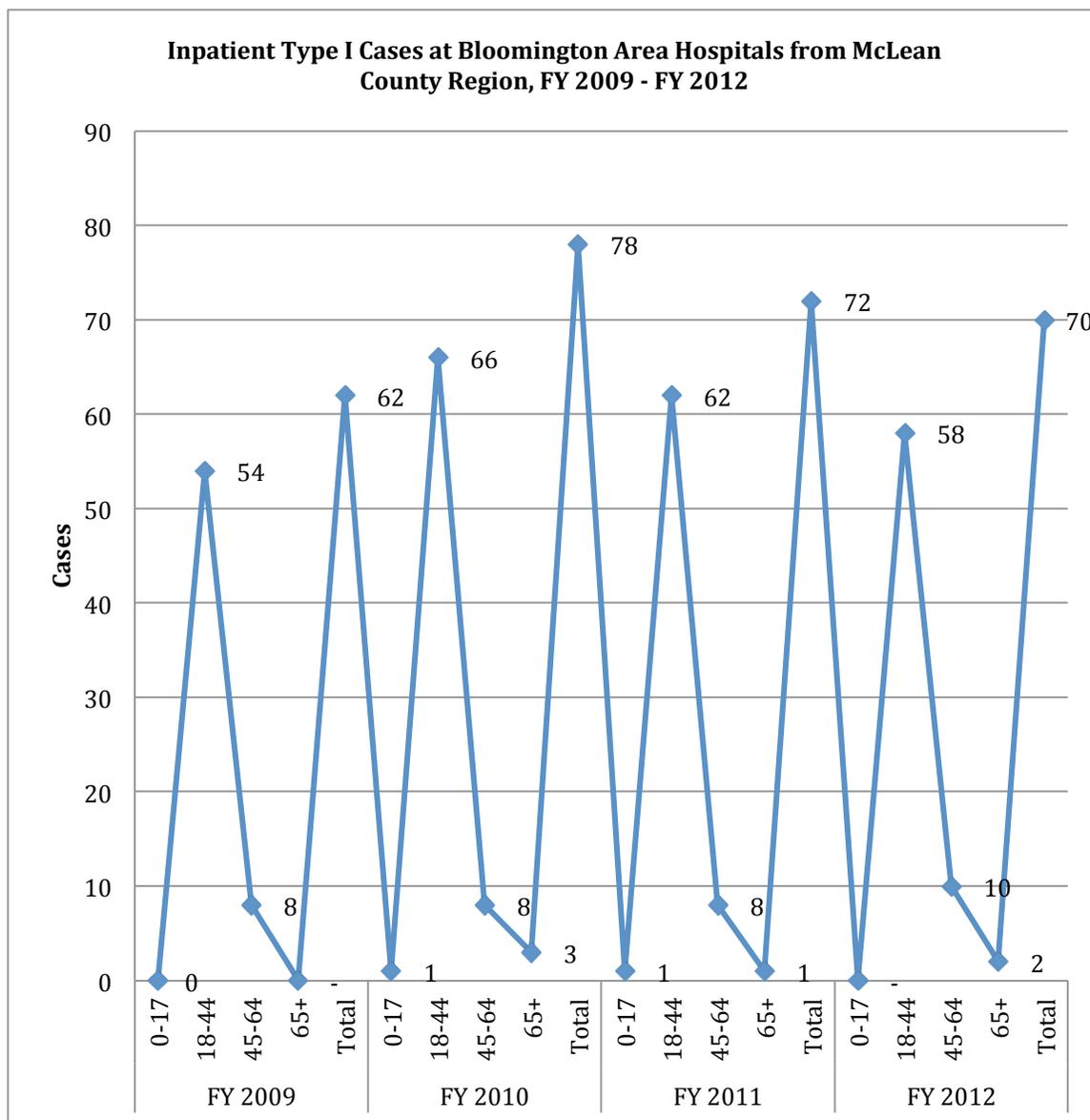
Data from the Illinois BRFSS indicate that 10.2% of McLean County residents have diabetes. Compared to data from the State of Illinois, the prevalence of diabetes is increasing at a faster rate (89% growth in the percentage) in McLean County than in the state as a whole.

Table 4.5-1 Inpatient Type II Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012

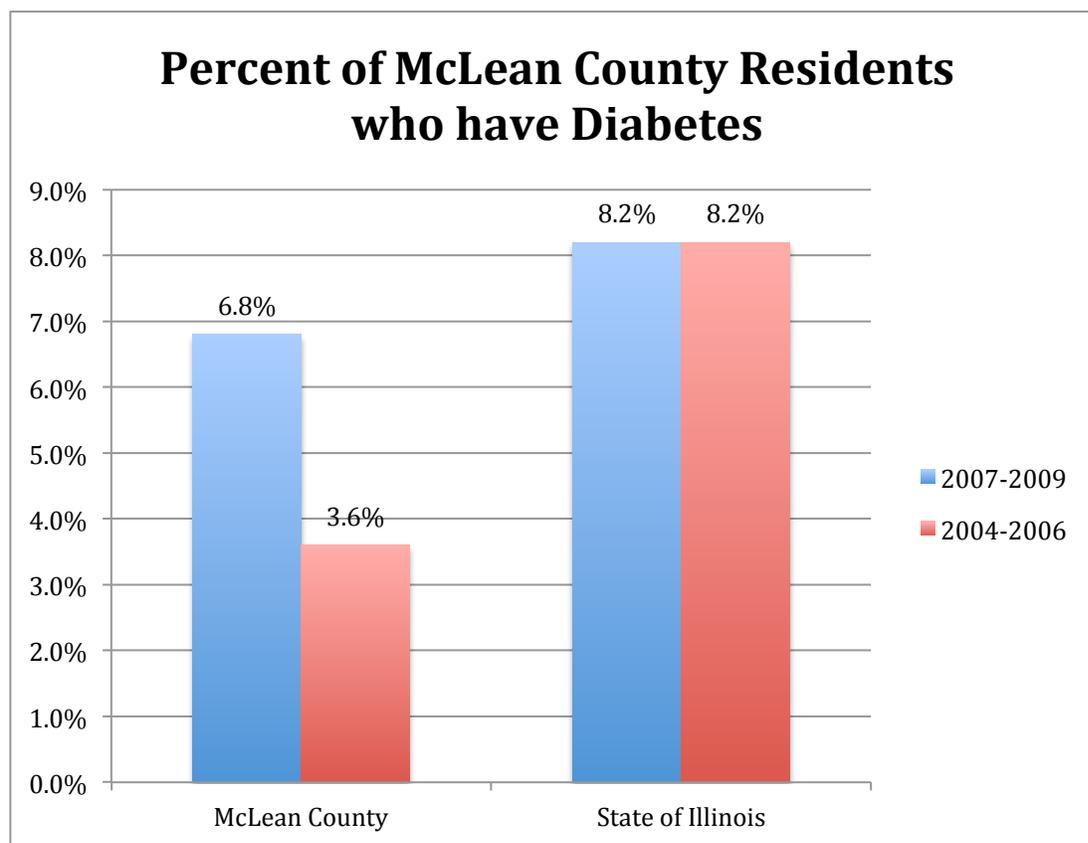


Source: COMPdata 2012

Table 4.5-2 Inpatient Type I Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



Source: COMPdata 2012

Table 4.5-3 Percent of McLean County Residents who have Diabetes

Source: Illinois Department of Public Health

4.6 Infectious Diseases

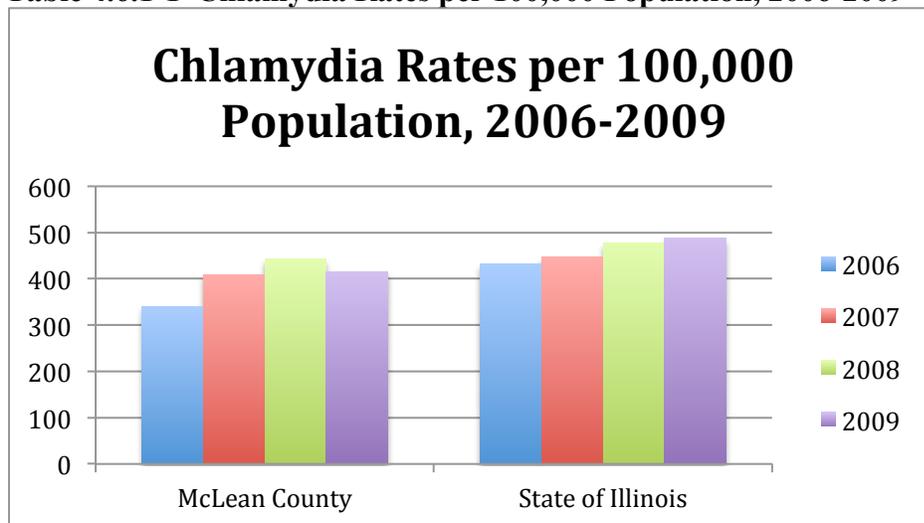
Importance of the measure: Infectious diseases, including sexually transmitted infections and hepatitis, are impacted by high-risk sexual behavior, drug and alcohol abuse, limited access to health care, and poverty. It would be highly cost-effective for both individuals and society if more programs focused on prevention rather than treatment of infectious diseases.

St. Joseph Medical Center Community Health-Needs Assessment

4.6.1 STIs

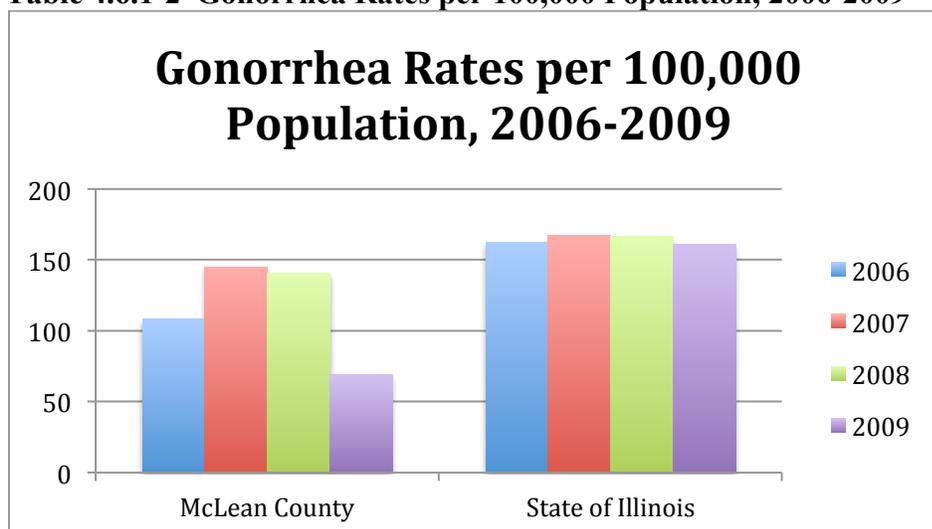
The rates for both Chlamydia and Gonorrhea in McLean County seem to have somewhat declined and they are considerably less than the state averages.

Table 4.6.1-1 Chlamydia Rates per 100,000 Population, 2006-2009



Source: Illinois Department of Public Health

Table 4.6.1-2 Gonorrhea Rates per 100,000 Population, 2006-2009

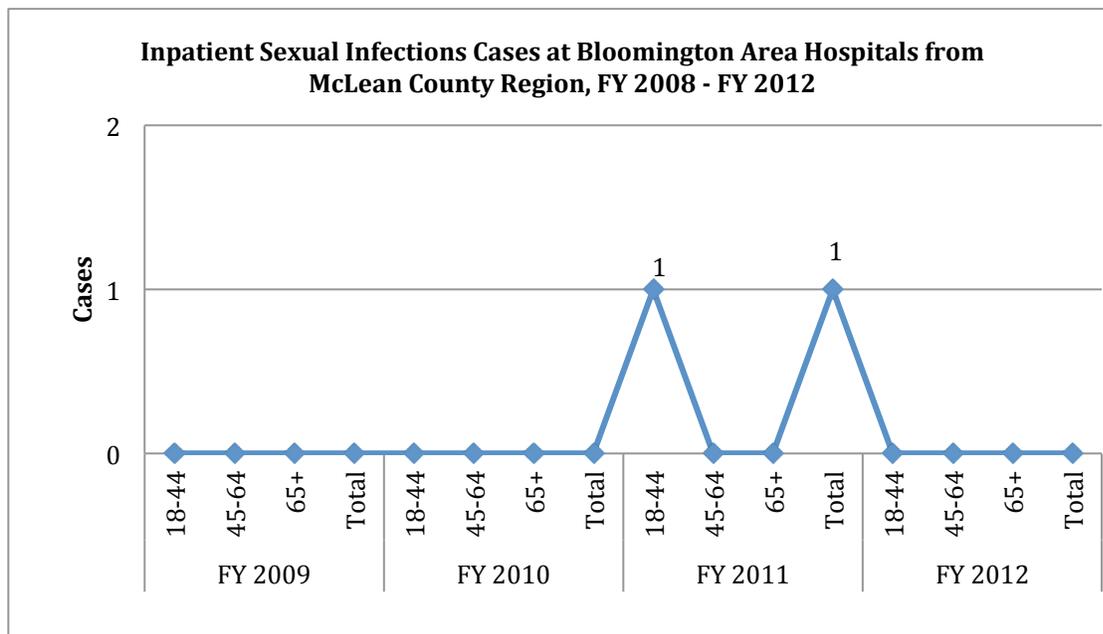


Source: Illinois Department of Public Health

St. Joseph Medical Center Community Health-Needs Assessment

One reported case of inpatient sexual infection was reported at Bloomington area hospitals from McLean County between FY 2009 and FY 2012.

Table 4.6.1-3 Inpatient Sexual Infections Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



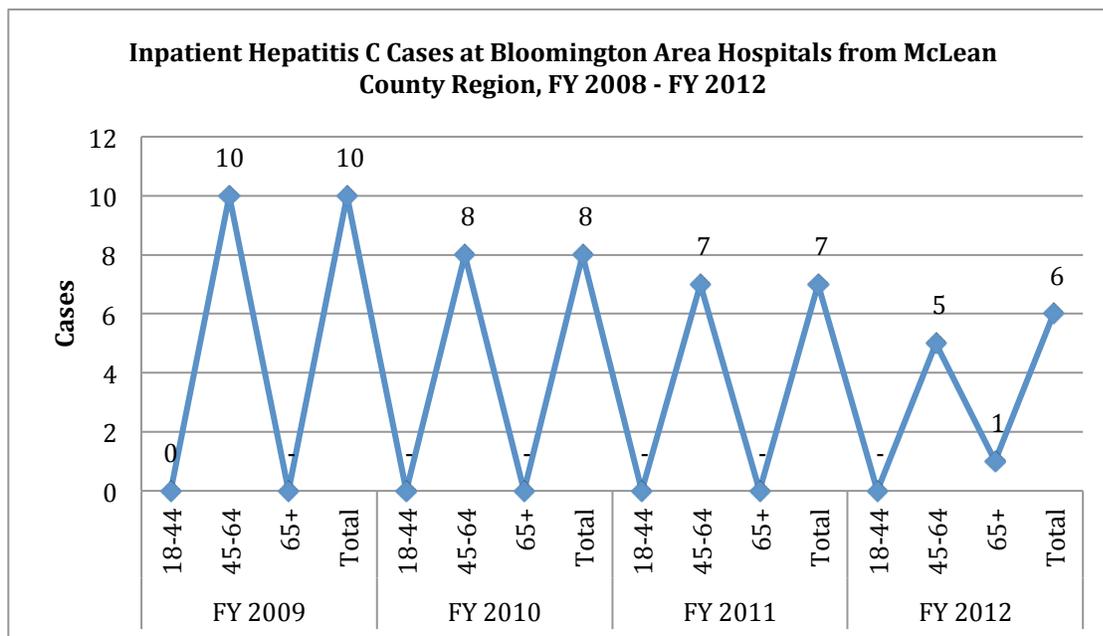
Source: COMPdata 2012

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4.6.2 Hepatitis C

There were 31 reported cases of inpatient Hepatitis C at Bloomington area hospitals from McLean County between FY 2009 and FY 2012.

Table 4.6.2-1 Inpatient Hepatitis C Cases at Bloomington Area Hospitals from McLean County Region, FY 2009 - FY 2012



Source: COMPdata 2012

4.7 Secondary Diagnoses*Importance of the measure:*

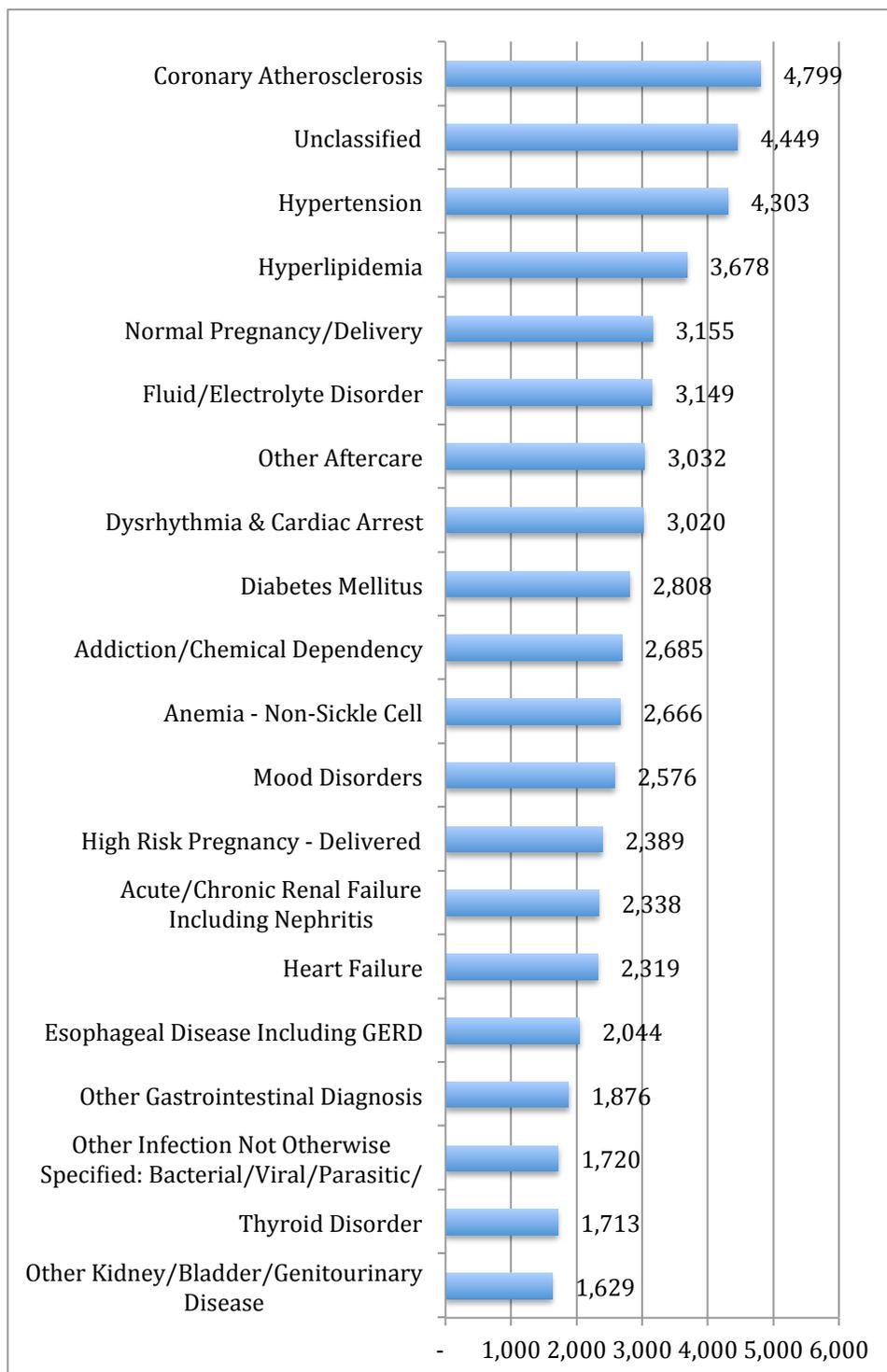
Secondary diagnoses are additional conditions diagnosed upon hospital intake. These diagnoses may complicate treatment efforts aimed at alleviating the primary diagnosis and exacerbate health care costs.

Tables 4.7.1-1 and 4.7.1-2 identify the top 20 secondary diagnoses in McLean County. Coronary atherosclerosis is the most prevalent secondary diagnosis.

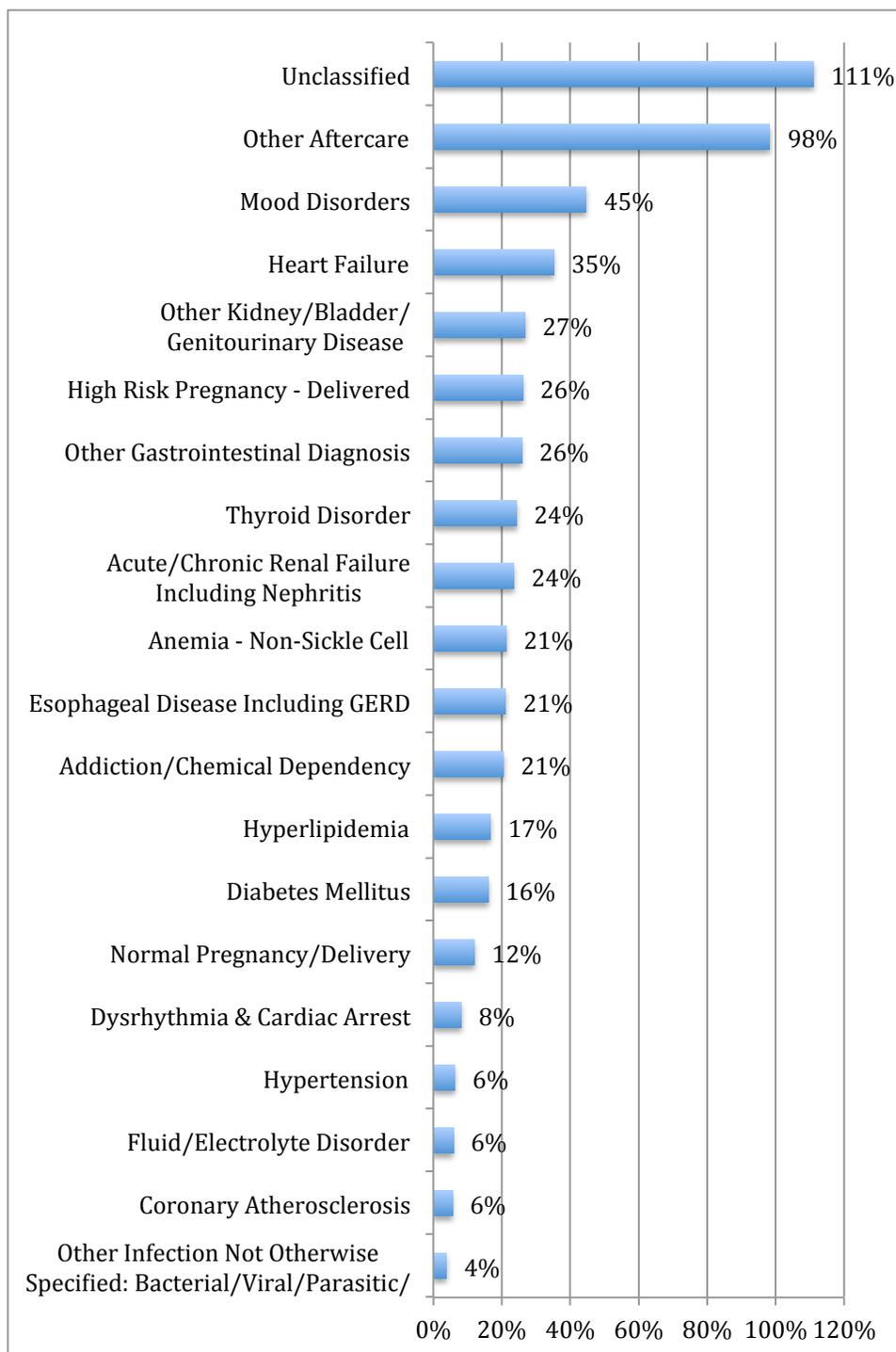
Between 2009 and 2012, the number of cases categorized as “unclassified” increased 111%.

It should be noted that the same patients may have multiple secondary diagnoses.

St. Joseph Medical Center Community Health-Needs Assessment

Table 4.7.1-1 Number of Cases of Top 20 Secondary Diagnoses at McLean Area Hospitals, Inpatient Only, 2012

Source: COMPdata 2012

Table 4.7.1-2 Growth Rates in the Number of Cases of Top 20 Secondary Diagnoses at McLean County Hospitals, Inpatient Only, 2009-2012

Source: COMPdata 2012

4.8 Injuries

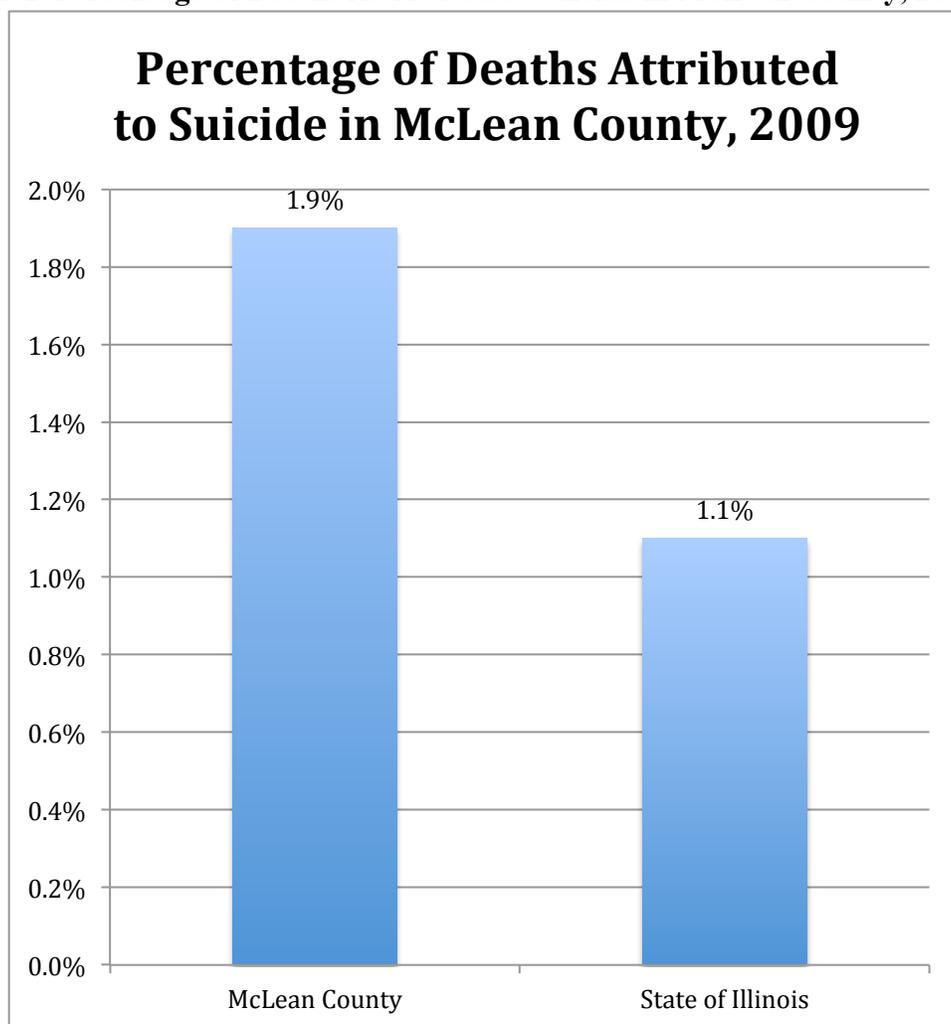
Importance of the measure:

Unintentional injuries are injuries that can be classified as accidents resulting from car accidents, falls and unintentional poisonings. In many cases, these types of injuries—and the deaths resulting from them—are preventable. Suicide is intentional self-harm resulting in death. These injuries are often indicative of serious mental health problems requiring the treatment of other trauma-inducing issues.

4.8.1 Intentional – suicide

For McLean County in 2009, the percentage of deaths attributed to suicide is 1.9% and almost twice the State of Illinois average.

Table 4.8.1-1 Percentage of Deaths Attributed to Suicide in McLean County, 2009

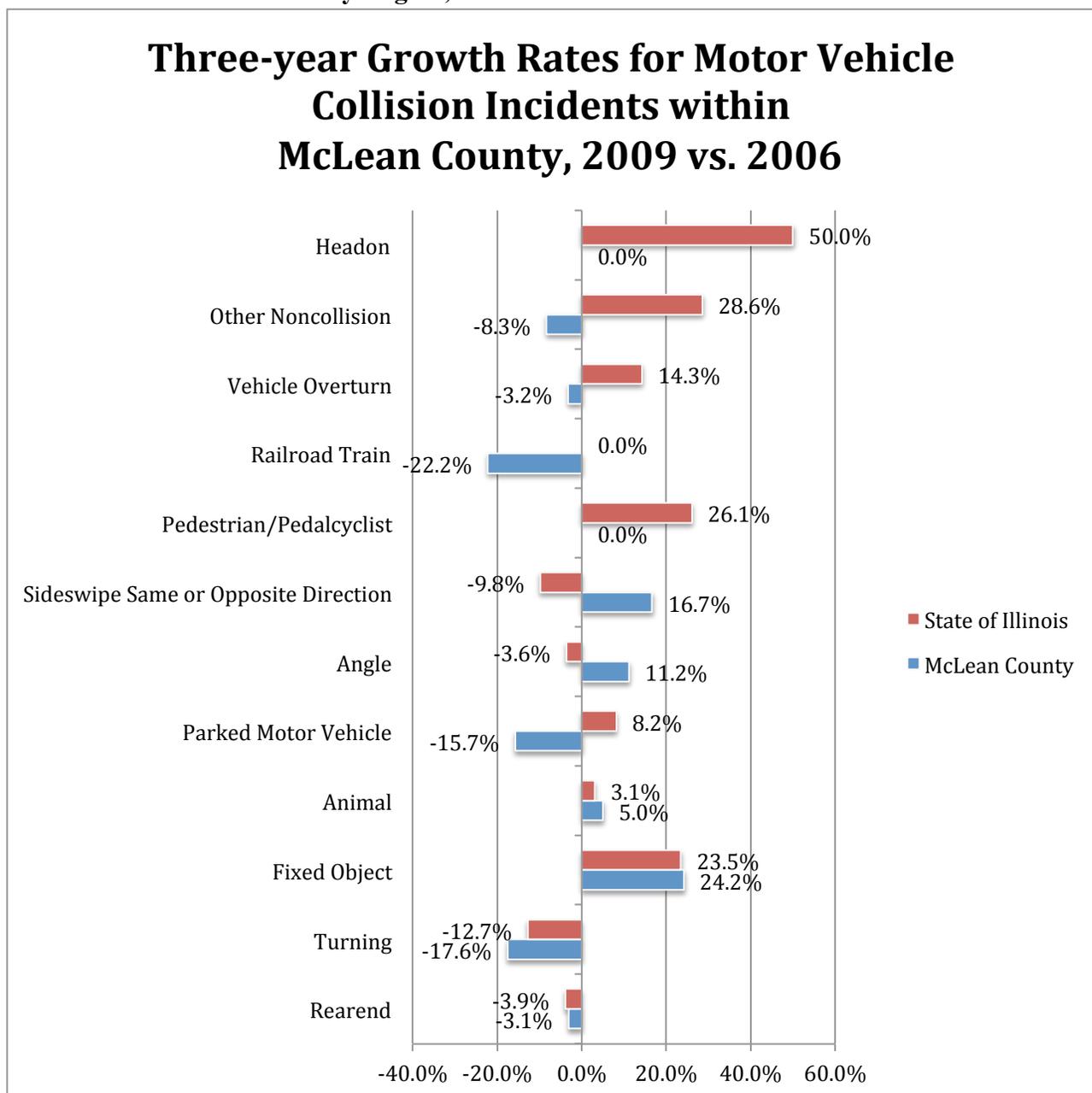


Source: Illinois Department of Public Health

4.8.2 Unintentional – motor vehicle

Research suggests that car accidents are a leading cause of unintentional injuries. In McLean County, the three-year growth rate between 2006 and 2009 for several types of motor vehicle collisions exceeds the State of Illinois average including sideswipe, angle, animal, fixed object, and rear-end accidents.

Table 4.8.2-1. Three-year Growth Rates for Motor Vehicle Collision Incidents within the McLean County Region, 2009 vs. 2006



Source: Illinois Department of Transportation

Diseases/Morbidity: Strategic Implications***Emphasize prenatal health and infant care:***

It is essential that infants and children begin life healthy and preferably, at normal birth weights. Research suggests that infants born at low birth weight are at greater risk for life-threatening complications including infections, breathing problems, neurological problems and Sudden Infant Death Syndrome (SIDS).¹ Other studies suggest that low birth weight babies are also at a higher risk for developmental disabilities, such as learning disabilities and attention deficits, than babies with normal birth weights. Cognitive function of low birth weight babies may also be diminished leading to higher rates of sub-average IQ (< 85) than normal birth weight babies.²

Regular prenatal care is a vital aspect in producing healthy babies and children. The employment of screening and treatment for medical conditions as well as identification and interventions for behavioral risk factors associated with poor birth outcomes are important aspects of prenatal care. Research suggests that women who receive adequate prenatal care are more likely to have better birth outcomes, such as full term and normal weight babies.³ Prenatal care can provide health risk assessments for the mother and fetus, early intervention for medical conditions and education to encourage healthy habits, including nutritional and substance-free health during pregnancy. According to a study by The National Public Health and Hospital Institute, cost of care and other financial barriers were cited as reasons expectant mothers did not get adequate prenatal care.⁴

Emphasize the link between blood pressure and cardiovascular diseases:

Research from the Center for Disease Control estimated that the total cost of cardiovascular diseases in the United States for 2010 was \$444 billion.⁵ In essence, one out of every six dollars spent on health care is spent on the diagnosis and treatment of cardiovascular diseases.⁶ However, controlling one's blood pressure and decreasing one's intake of cholesterol also reduces the risk of cardiovascular diseases. For example, research from the CDC suggests a "12–13 point reduction in average systolic blood pressure over 4 years can reduce heart disease risk by 21%, stroke risk by 37%, and risk of total cardiovascular death by 25%."⁷

Data from the Bloomington area hospitals paint a striking portrait regarding the leading indicators of cardiovascular disease. The number of cases of inpatient heart failure at Bloomington area hospitals from the McLean County region has increased 6% between 2009 (269 cases) and 2012 (285 cases) for individuals 65 years of age and older. In addition, the number of cases of inpatient disease of the venous system at Bloomington area hospitals from the McLean County region has increased 16% between 2009 (57 cases) and 2012 (66 cases). Finally, the number of cases of inpatient myocardial infarction for individuals 45 to 64 years of age at Bloomington area hospitals from the McLean County region has increased 35% between 2009 (75 cases) and 2012 (101 cases).

Endnotes Chapter 4

¹ Lucile Packard Children's Hospital at Stanford University, *High-Risk Newborn: Low Birthweight*. Retrieved from <http://www.lpch.org/DiseaseHealthInfo/HealthLibrary/hrnewborn/lbw.html>.

² Kessenich, M. (2003). Developmental Outcomes of Premature, Low Birth Weight, and Medically Fragile Infants. *Newborn and Infant Nursing Reviews*, **3, 3, 80-87**.

³ Kiely, J.L. & Kogan, M.D. (1994). Prenatal Care. In *Public Health Surveillance for Women, Infants, and Children*. Atlanta, GA: U.S. Center for Disease Control

⁴ The National Public Health and Hospital Institute. *Barriers to Prenatal Care Study: A Survey of Women Who Deliver at Public Hospitals, 2003*.

⁵ U.S. Center for Disease Control and Prevention. *Heart Disease and Stroke Prevention – At A Glance 2011*.

⁶ Ibid.

⁷ Ibid.

CHAPTER 5. MORTALITY

Importance of the measure: Presenting data that focuses on diseases provides an opportunity to analyze the ratio of sick individuals to healthy individuals in the McLean County Region and, in addition, define and quantify what diseases are causing the most death and disability.

The top two leading causes of death in the State of Illinois and McLean County are similar as a percentage of total deaths. Diseases of the Heart comprise 23% of deaths in McLean County and Cancer comprises 23% of deaths in McLean County. Both Diseases of the Heart and Cancer contribute a lower percentage of deaths in McLean County than the State of Illinois as a whole. However Alzheimer's Disease was attributed to 5.9% of deaths in 2009 in McLean County vs. 2.8% of deaths in the State of Illinois, making Alzheimer's Disease the 4th leading cause of death in McLean County compared to the 6th leading cause of death in the State of Illinois.

Table 5.1-1. Top 5 Leading Causes of Death for all Races by County, 2009		
Rank	McLean County	State of Illinois
1	Diseases of Heart (23%)	Diseases of Heart (25%)
2	Malignant Neoplasm (23%)	Malignant Neoplasm (24%)
3	Chronic Lower Respiratory Disease (6%)	Chronic Lower Respiratory Disease (5%)
4	Alzheimer's Disease (6%)	Cerebrovascular Disease (5%)
5	Accidents (5%)	Accidents (4%)

Source: Illinois Department of Public Health

Mortality: Strategic Implications

Minimize unnecessary medical interventions to decrease mortality rates:

Three decades of research suggests that more care for patients is associated with higher mortality.¹ This paradox is best explained by the fact that all medical procedures possess risk and by increasing the number of interventions a patient receives, the more risk incurred by the patient. More risk increases the chances of errors and additional physicians becoming involved to treat the patient. The Institute of Medicine contends that this fragmentary nature of the US health care delivery system is one of the major drivers of poor quality and higher costs.²

Poor quality disproportionately impacts those with chronic illnesses. Statistically, an estimated 90 million Americans live with at least one chronic illness, 70% of Americans die from chronic disease, and 90% of deaths among the Medicare population are attributed to just nine chronic illnesses: congestive heart failure, chronic lung disease, cancer, coronary artery disease, renal failure, peripheral vascular disease, diabetes, chronic liver disease, and dementia.³

The costs to treat chronic diseases are staggering, as inefficiencies drive up the cost of care. Patients with chronic conditions are often treated by primary care providers in addition to specialists. In most cases, little is done to coordinate treatments. Over time, as the chronic condition becomes more debilitating, patients require more care and the cost of care increases. According to the Dartmouth Institute for Health Policy and Clinical Practice, patients with chronic illnesses in their last two years of life account for nearly 32% of total Medicare spending.⁴ Furthermore, overtreatment in the U.S. wastes an estimated 20 to 30 cents on every health care dollar spent.⁵

Address the diverse needs of underserved populations:

Research suggests individuals of color are at greater risk to be afflicted with violent crime, perinatal conditions, and chronic diseases. The U.S. Bureau of Justice notes that a racial divide impacts the prevalence of individuals being stricken by violent crime. In 2005, national homicide rates for African Americans were six times higher than the rates for whites.⁶ Adverse perinatal conditions include poor maternal health and nutrition, inadequate care during pregnancy and childbirth, and problems relating to premature births.

With regard to chronic diseases including heart disease and cancer, the U.S. Department of Health and Human Services' Office of Minority Health suggests African Americans are 30% less likely to be diagnosed with heart disease than Whites, but are more likely to die from it. Furthermore, African Americans are 1.5 times more likely than Whites to have high blood pressure and African American women are 1.7 times more likely to be obese.⁷

The incidence of strokes disproportionately impacts African Americans, as they are 70% more prone to having a stroke than Whites. With mortality rates, Black men are 60% more likely to die from a stroke. For stroke survivors, African Americans are more often disabled than Whites.⁸

For cancer, Black men are 30% more likely than Whites to have new cases of prostate cancer and are twice as likely to be diagnosed with stomach cancer. The 5-year survival rates for African Americans are lower for lung and pancreatic cancer, and they are 2.4 times as likely to die from prostate cancer. Black women are 10% less likely to be diagnosed with breast cancer than Whites, but they are 34% more likely to die from it. Black women are twice as likely to be diagnosed with stomach cancer and are 2.4 times more likely to die.⁹

Endnotes for Chapter 5

¹ The Dartmouth Institute for Health Policy and Clinical Practice. (2008). *Tracking the Care of Patients with Severe Chronic Illness*.

² Institute of Medicine. (2001). *Crossing the Quality Chasm: A New Health System for the 21st Century*.

³ The Dartmouth Institute for Health Policy and Clinical Practice. (2008). *Tracking the Care of Patients with Severe Chronic Illness*.

⁴ Ibid.

⁵ Skinner, J.S., Fisher, E.S., & Wennberg, J.E. (2005). The Efficiency of Medicare. In D. Wise (ed.) *Analyses in the Economics of Aging*. Chicago: University of Chicago Press and NBER.

⁶ U.S. Bureau of Justice Statistics, *Homicide Trends in the U.S.* Retrieved from <http://bjs.ojp.usdoj.gov/content/homicide/race.cfm>

⁷ U.S. Department of Health and Human Services' Office of Minority Health.

⁸ Ibid.

⁹ Ibid.

PHASE II – PRIMARY DATA RESEARCH FOR COMMUNITY HEALTH NEEDS

To meet requirements of section 501(r)(3) of Schedule H Form 990, "...a community health needs assessment must take into account input from persons who represent the broad interests of the community served by the hospital(s), including those with special knowledge of or expertise in public health ...". Moreover, for strategic planning purposes of each hospital, perceptions of various stakeholder groups can provide important insights into perceptions of the community regarding general health-care effectiveness.

Numerous opportunities may exist that are related to impacting community health benefits, but are not published in secondary research sources. Rather they are discovered through unbiased data collection, rigorous statistical modeling and analyses, and simple, common-sense interpretations and conclusions. Through this type of research, the health-care community can expect to identify areas for self-improvement, opportunities for addressing community needs and underlying perceptions of how demographics impact the community's perceptions and effectiveness.

Phase II research consists of providing structure, information, documentation and practical interpretation of data. Five specific objectives are accomplished in the primary research:

- Create a statistically valid research instrument to collect necessary information;
- Collect data using a partnership process (rather than respondent mentality);
- Assess perceptions of current/potential community issues;
- Segment markets based on key demographics;
- Draw conclusions and discuss potential future directions to improve the health of the community.

In Phase II of the community health needs assessment, there are four chapters that assess different aspects of the general community as well as specific health-related issues for the at-risk population. The chapters are as follows:

CHAPTER 6. GENERAL CHARACTERISTICS OF RESPONDENTS**CHAPTER 7. FINDINGS AND RESULTS COMMUNITY PERCEPTIONS****CHAPTER 8. ACCESSIBILITY TO HEALTH CARE****CHAPTER 9. HEALTH-RELATED BEHAVIORS**

CHAPTER 6. GENERAL CHARACTERISTICS OF RESPONDENTS

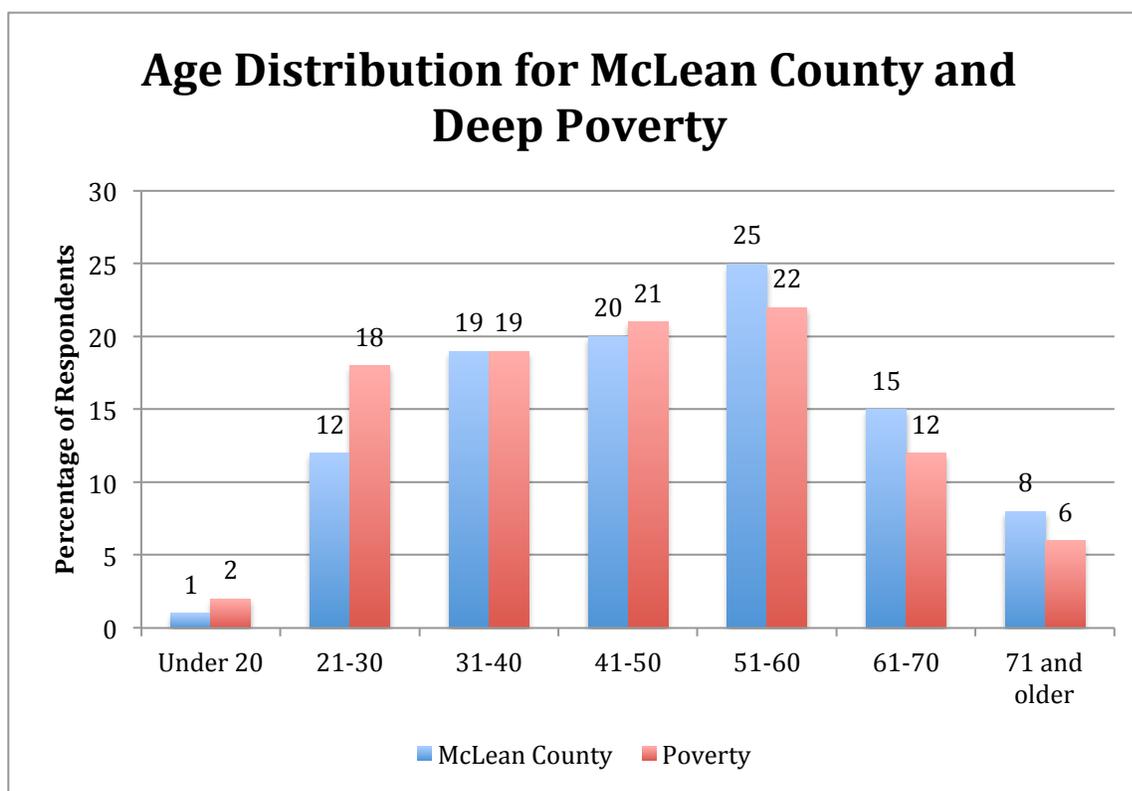
As mentioned in the Methods section of this study, data were collected via on-line surveys and paper surveys. In this chapter, the characteristics of the sample are presented. A total of 774 surveys were completed. All data includes the entire sample, except where specifically noted.

Note that for most characteristics in this chapter, data are analyzed for: (1) the overall sample; and (2) by the at risk population. According to the CDC, at risk populations are characterized by economic disadvantage. Specifically, according to the CDC *Public Health Workbook*, at risk populations are defined as those individuals living in deep poverty, which for this study is operationalized as those with a household income of less than \$20,000. Note that 415 respondents were in this income category.

6.1 Age

The average age of respondents was 42.9 years old. The distribution is reflective of the 2010 Census data, however, the mean age of surveyed respondents is slightly older, compared to the Census average age of 32.0 years old. This occurred because survey respondents were all adults, age 18 and above.

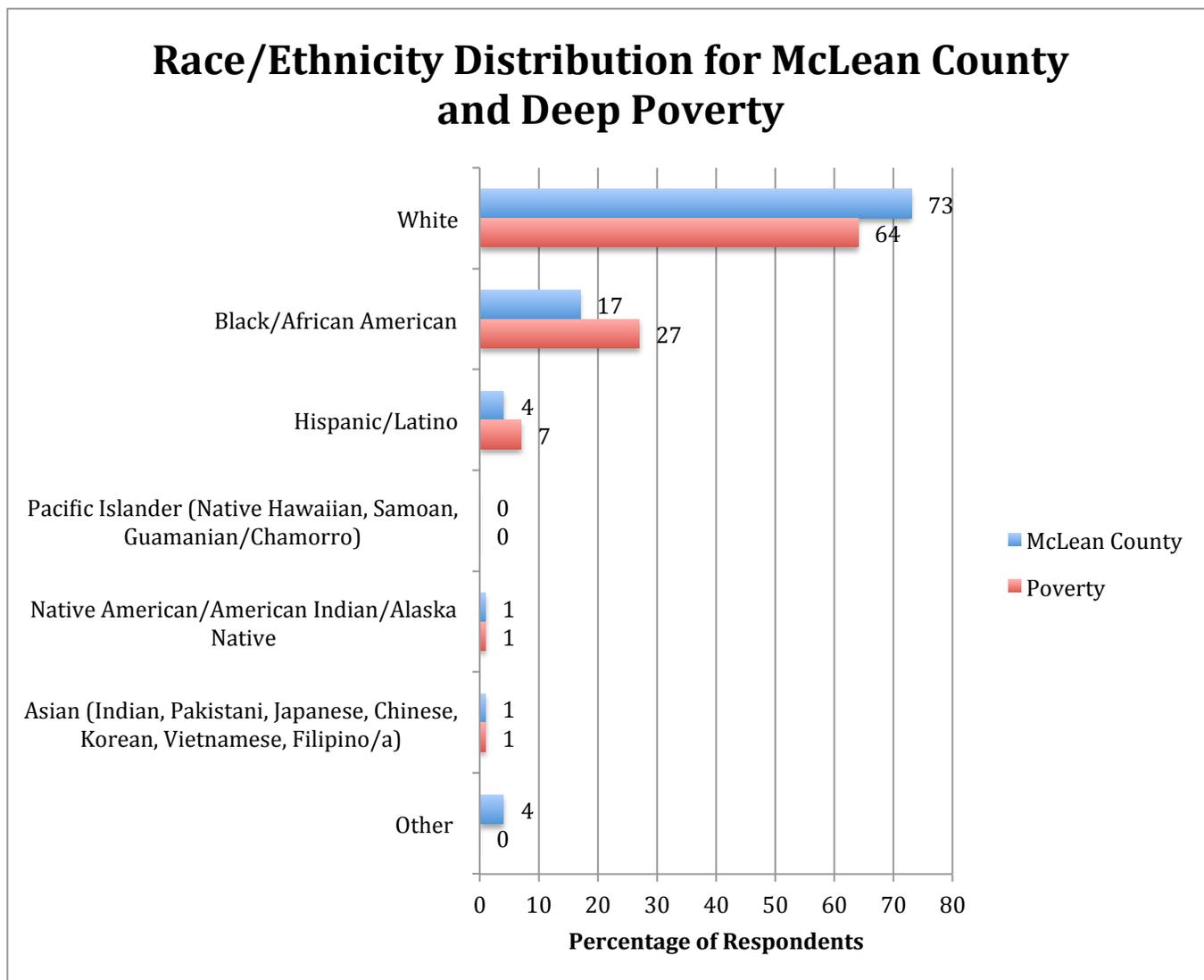
Table 6.1 Age Distribution for McLean County and Deep Poverty



6.2 Race and Ethnicity

Overall demographics for race/ethnicity mirrored the secondary data assessed in Phase I. Comparing to Census data and the survey respondents, most ethnic backgrounds were similar to one another. However, higher percentages of individuals identifying as Black/African American were included in the study.

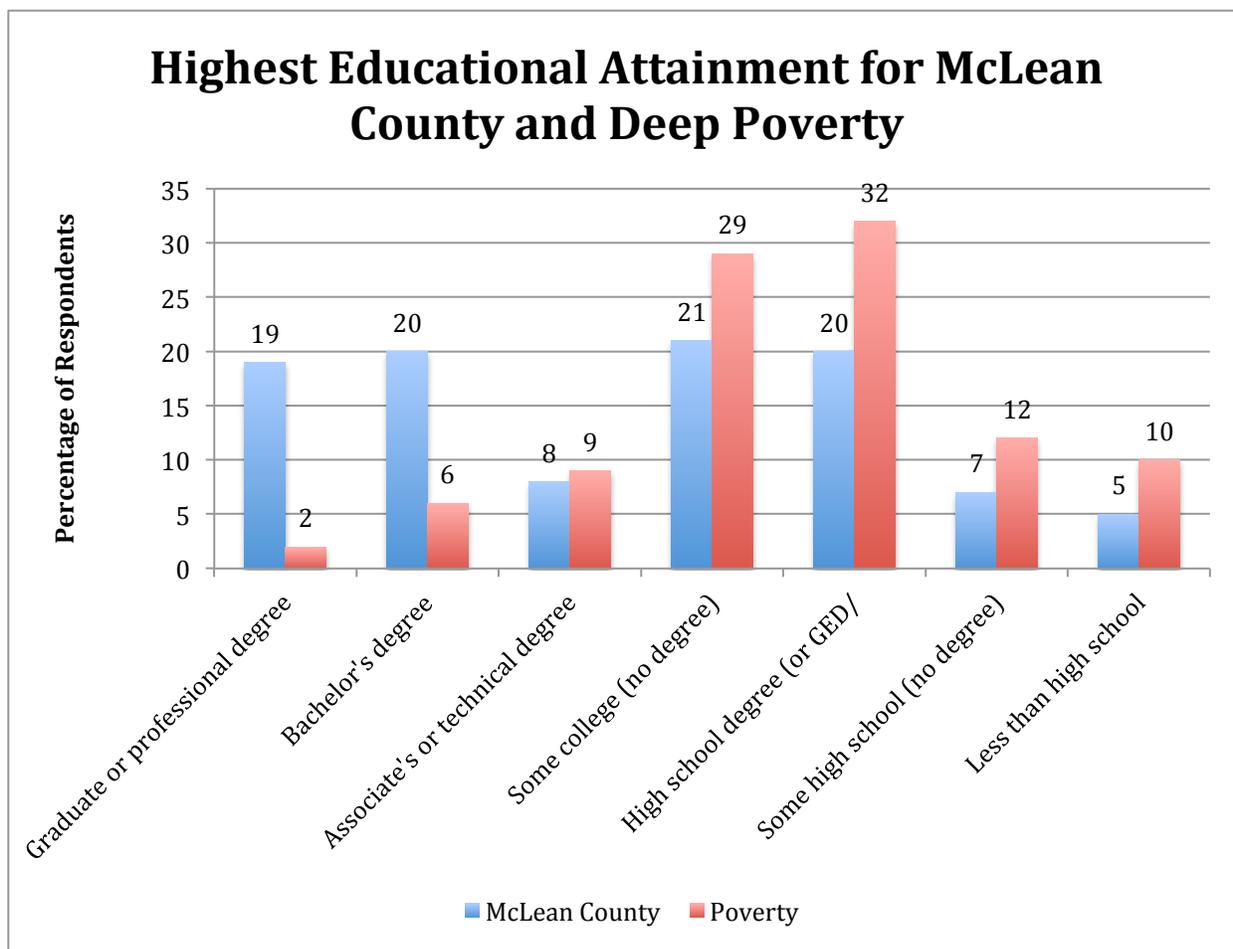
Table 6.2 Race/Ethnicity Distribution for McLean County and Deep Poverty



6.3 Educational Attainment

Level of education for survey respondents was similar to Census data; however, note that 22% of those living in poverty have not completed high school.

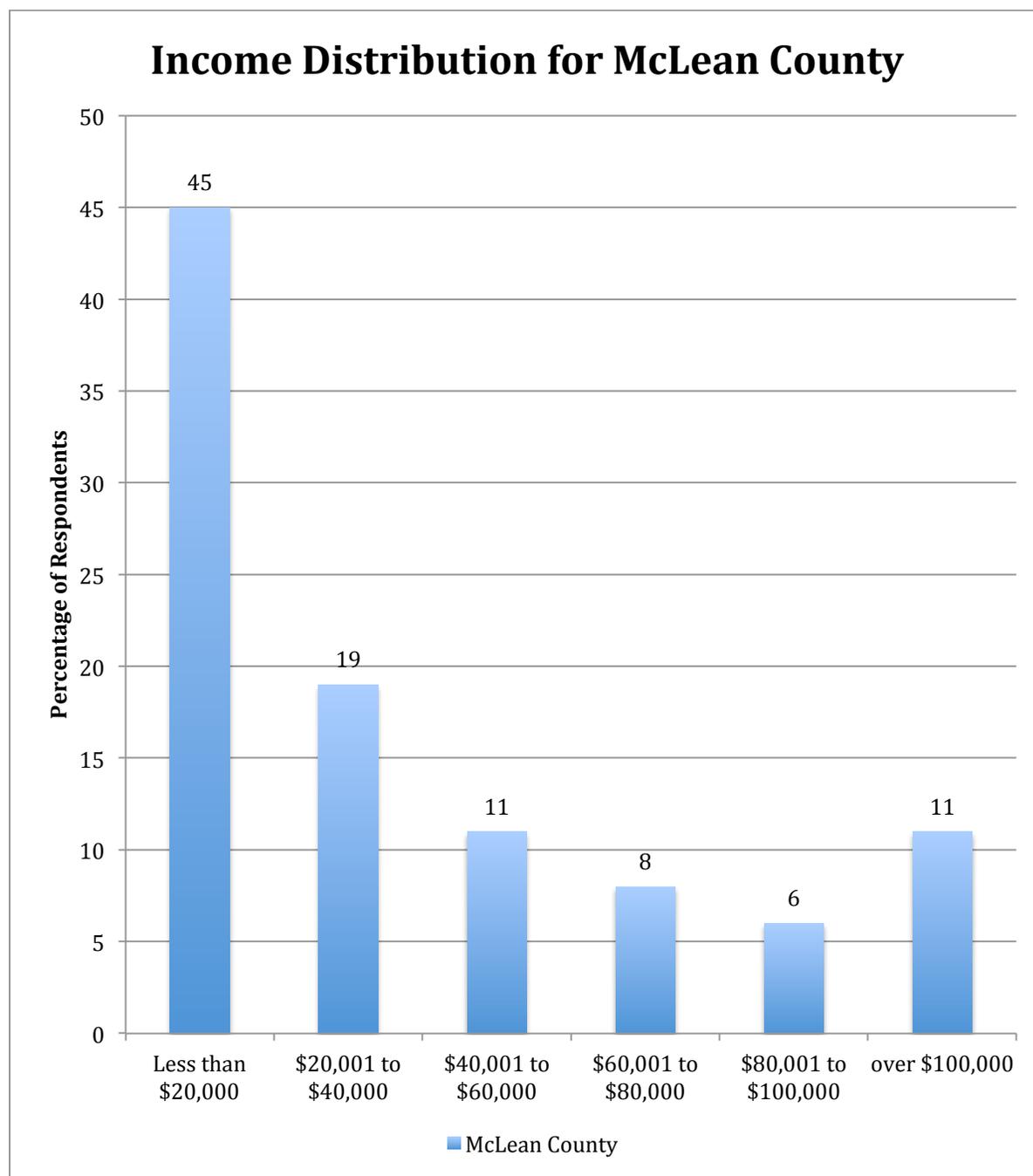
Table 6.3 Highest Educational Attainment for McLean County and Deep Poverty



6.4 Income Distribution

Note that income distribution for survey respondents is skewed low, as 45% of the overall sample had an income level of less than \$20,000. This is a result of the targeted efforts to survey the at-risk population.

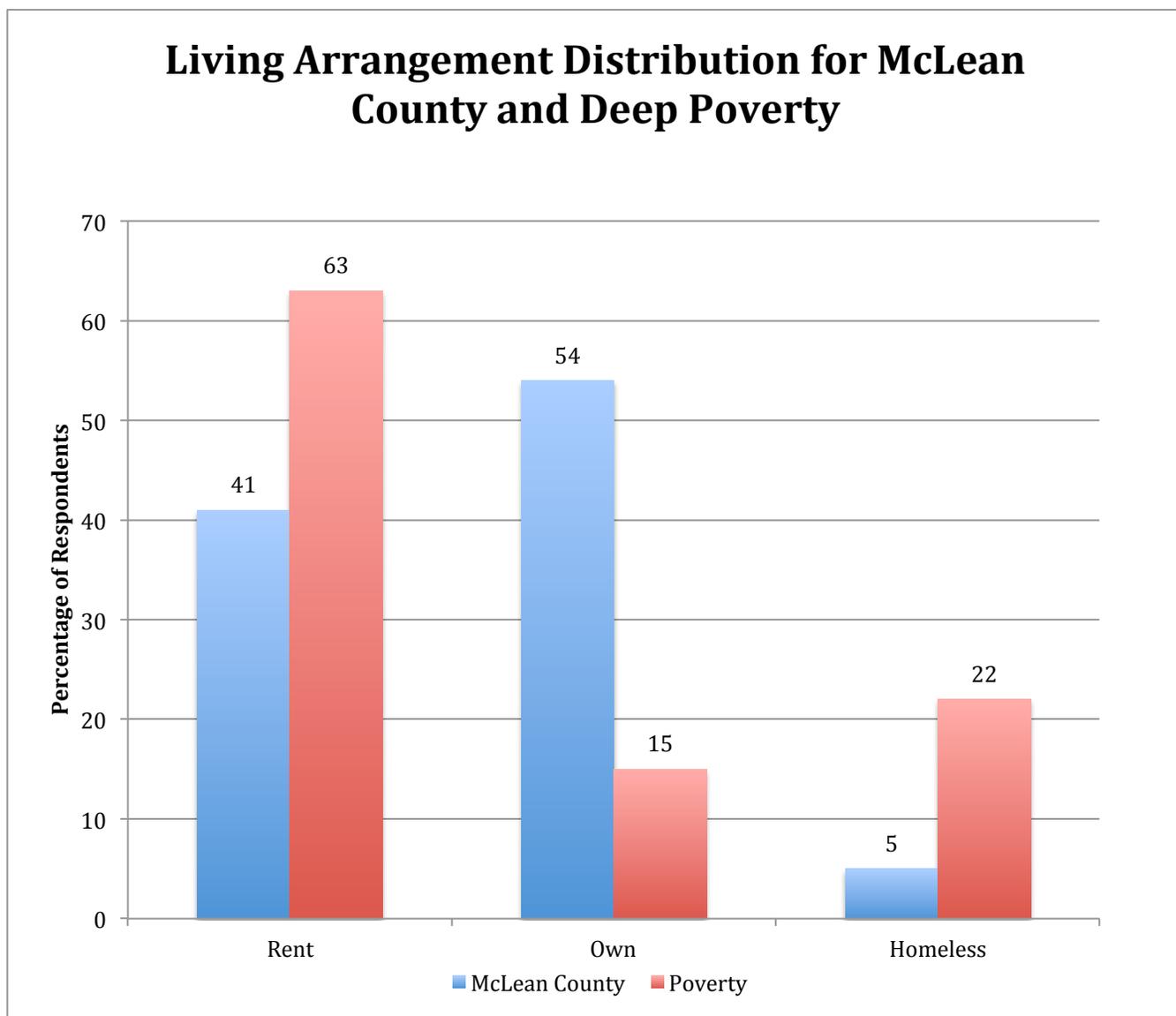
Table 6.4 Income Distribution for McLean County



6.5 Living Arrangements

Note that overall, over twice as many respondents indicated they owned homes compared to those individuals who rented. To protect the dignity of homeless survey respondents, a specific choice of homeless was not available, rather there was a category for “other.”

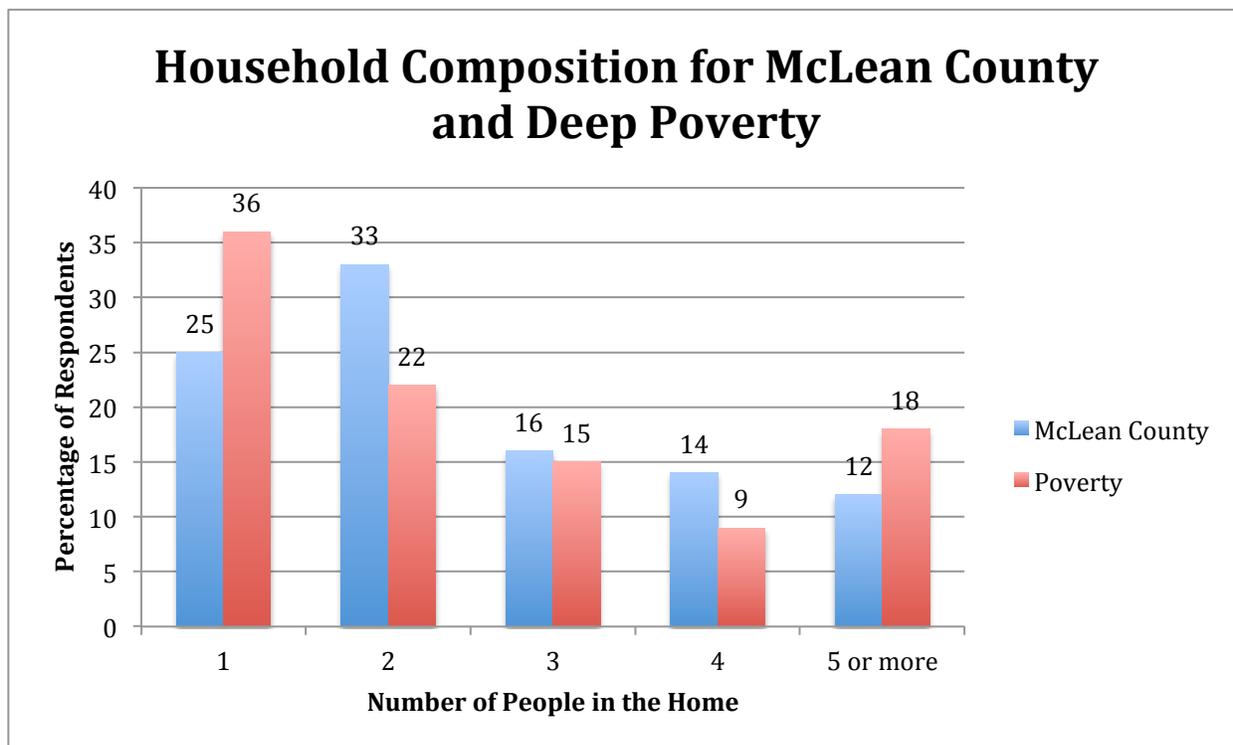
Table 6.5 Living Arrangement Distribution for McLean County and Deep Poverty



6.6 Household Composition

Household composition is based on the number of individuals living in a household. Overall the most prevalent response was 2 people per household, with the exception of those living in deep poverty, where the most prevalent response was one individual living in a household.

Table 6.6 Household Composition for McLean County and Deep Poverty



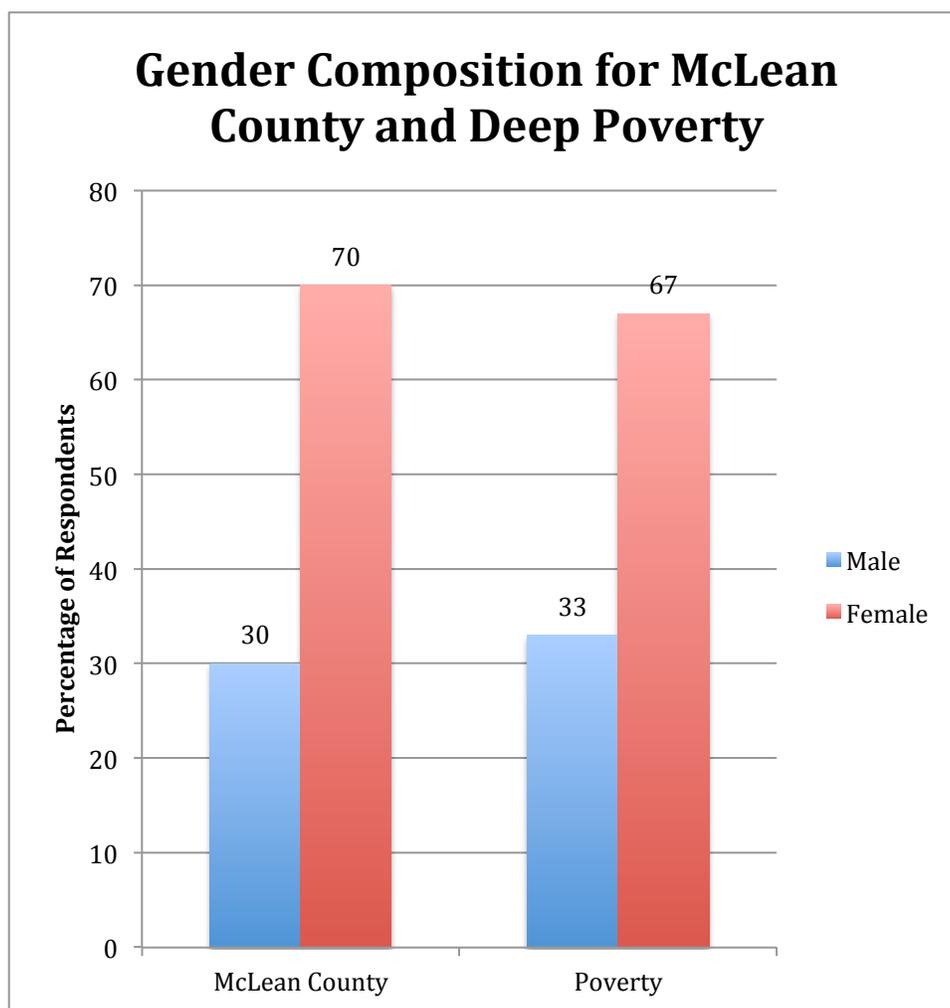
6.7 Employment Status

For employment status, overall, 34% of respondents were employed full time, 10% were employed part time, and 16% were unemployed. The rest of the population was either retired, in school, disabled, or served in the armed forces or was a homemaker.

6.8 Gender

The one demographic variable that was significantly skewed was gender. Overall 70% of respondents were women and 30% of respondents were men. According to Census data, men and women are evenly divided in McLean County. For this type of survey, it is expected that women would be more likely to fill out the survey compared to men. Note that in a research study performed by the Heart of Illinois United Way in 2011, a positive correlation was found between women and concern for health-care related issues. Stated differently, women are more interested in participating in these types of surveys than men.

Table 6.8 Gender Composition for McLean County and Deep Poverty



CHAPTER 7. COMMUNITY PERCEPTIONS

In this chapter results of the first three sections of the survey are analyzed and discussed. Specifically, perceptions of Health Problems in the Community, Unhealthy Behaviors and factors impacting Quality of Life are presented. First, aggregate scores are presented. Then responses are presented for those living in deep poverty. After each category, correlation analyses between perceptions and demographic variables are presented in order to identify where certain demographic characteristics influence the way respondents perceive specific attributes of the community.

Note that for aggregated perceptions of the McLean County community, modifications to data were made given the skewed income data and skewed gender data. Therefore specific cases were selected randomly based on income and gender, in order to replicate the demographics of the community based on Census data. The sample used for aggregated analyses contains 609 responses.

7.1 Health Problems in the Community

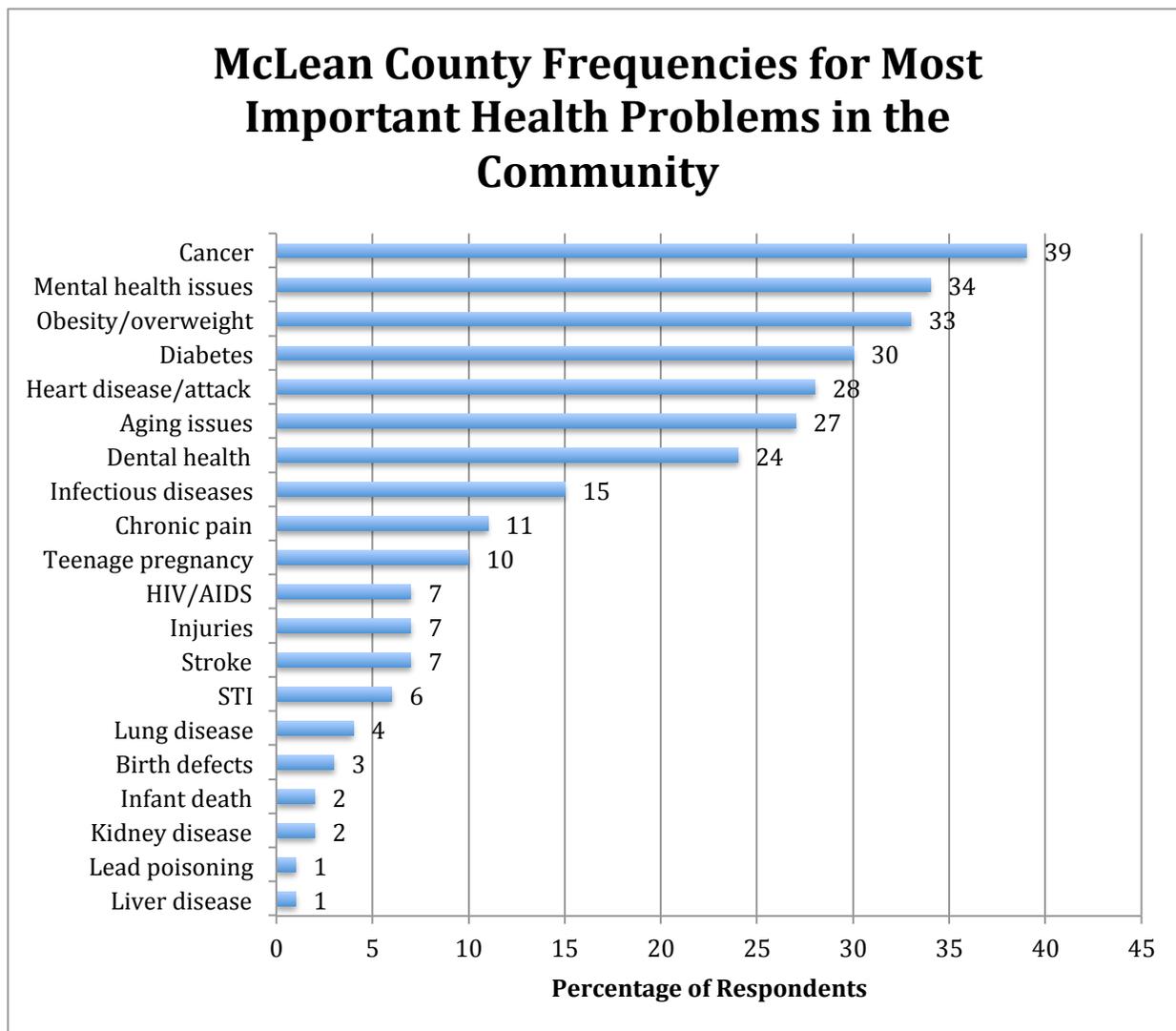
7.1.1 Aggregated Results

The first dimension of the survey asked respondents to rate the three most important health problems in the community. Respondents had a choice of 20 different options. The health problem that rated highest was cancer. It was significantly higher than other categories based on *t-tests* between sample means.

This was followed by mental health issues and obesity identified 33-34% of the time. Diabetes, heart disease/attack, and aging issues were identified 27-30% of the time. The next set of health problems identified were dental health and infectious diseases. Other categories were only identified less than 15% of the time.

Note that perceptions of the community were accurate in some cases, but inaccurate in others. For example, while cancer is a leading cause of mortality in McLean County, the number of cases treated has been steadily declining for some cancer types. Also, obesity is an important issue and the survey respondents accurately identified obesity as an important health problem.

In contrast, “lung disease” and “stroke” ranked much lower yet the number of cases of COPD, a contributing factor of lung disease, increased for older individuals at McLean area hospitals between 2009 and 2012 and the number of cases of stroke increased at McLean area hospitals between 2009 and 2012.

Table 7.1.1 McLean County Frequencies for Most Important Perceived Health Problems in the Community

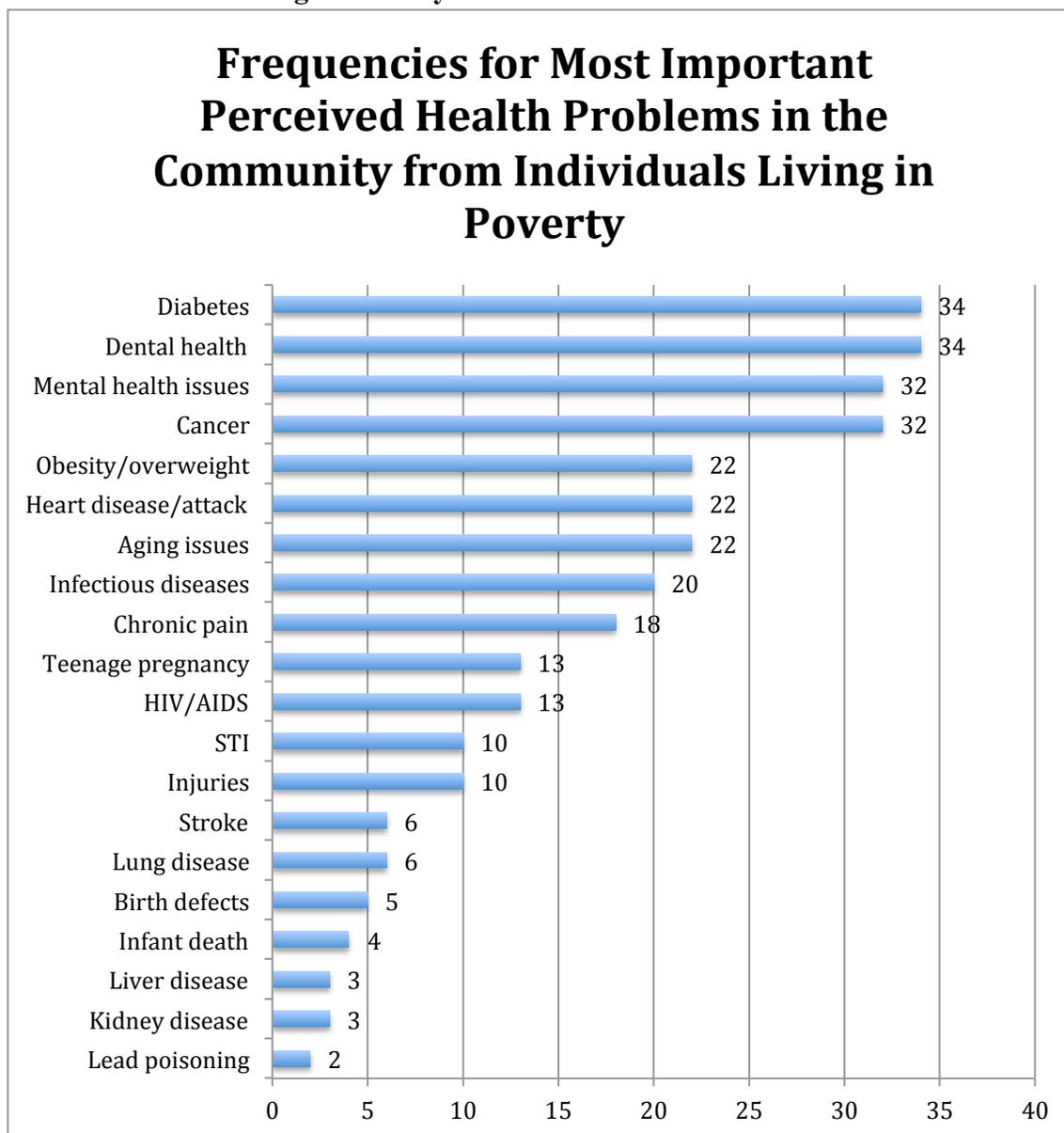
Note: n=609

St. Joseph Medical Center Community Health-Needs Assessment

7.1.2 Perceptions of Individuals Living in Poverty

When assessing perceptions of those living in poverty, it can be seen that some of the health problems change in terms of importance. For example, while many of the top perceived health problems remain constant, others become more important. For example, 18% of individuals living in poverty identified chronic pain as a concern and 34% of individuals living in poverty identified dental health as a concern.

Table 7.1.2 Frequencies for Most Important Perceived Health Problems in the Community from Individuals Living in Poverty



St. Joseph Medical Center Community Health-Needs Assessment

7.1.4 Relationships between Perceptions and Demographics

Only significant relationships are reported in this section. The threshold used for significant correlations is ($p < .05$) given the sample size. The following relationships can be identified.

Aging Issues tend to be rated higher by individuals with the following characteristics: Older, White ethnicity, individuals with more income. Aging issues tends to be rated lower by individuals identifying with Black ethnicity.

Birth Defects tend to be rated higher by individuals with less education and lower income.

Cancer tends to be rated higher by individuals with the following characteristics: more income.

Chronic pain tends to be rated higher by individuals with the following characteristics: Less educated and lower income.

Dental health tends to be rated higher by individuals with the following characteristics: Younger, less educated, and lower income.

Diabetes tends to be rated higher by individuals of Black ethnicity and individuals with less education and lower income.

Heart disease/attack tend to be rated higher by people with the following characteristics: Older, White ethnicity, and more education. Heart disease tends to be rated lower by individuals identifying with Black ethnicity.

HIV/AIDS tends to be rated higher by people with the following characteristics: Younger, of Black ethnicity, less education, and lower income. HIV/AIDS tends to be rated lower by people identifying with White ethnicity.

Infant death tends to be rated higher by individuals identifying with Black ethnicity.

Infectious diseases tends to be rated higher by younger individuals and individuals identifying with Black ethnicity, lower income, and less education. Individuals identifying with White ethnicity tend to rate it lower.

Injuries tends to be rated higher by people with the following characteristics: Men, younger, lower income, and less education.

Kidney disease tends to be rated higher by individuals identifying with Black ethnicity.

Liver disease tends to be rated higher by individuals with less education and lower income.

Lung disease tends to be rated higher by individuals with less education.

Mental Health Issues tend to be rated higher by women, individuals with more income and higher education, and individuals of White ethnicity.

St. Joseph Medical Center Community Health-Needs Assessment

Obesity/Overweight tends to be rated higher by people with the following characteristics: White ethnicity, higher income and more education. Individuals of Black ethnicity are more likely to rate obesity lower.

STIs tend to be rated higher by people with the following characteristics: younger, of Black ethnicity, lower income, and less education.

Stroke tends to be rated higher by older individuals and men.

“Teenage Pregnancy” tends to be rated higher by people with the following characteristics: younger, of Black ethnicity, lower income, and less education. Individuals of white ethnicity tend to rate it lower.

Table 7.1.3 Significant Correlations among Most Important Perceived Health Problems in the Community and Demographic Variables

	Gender	Age	Race (White)	Race (Black)	Latino/a	Education	Income
<i>Aging issues</i>		+	+	-			+
<i>Birth defects</i>						-	-
<i>Cancer</i>							+
<i>Chronic pain</i>						-	-
<i>Dental health</i>		-				-	-
<i>Diabetes</i>				+		-	-
<i>Heart disease/ Heart attack</i>		+	+	-		+	
<i>HIV/AIDS</i>		-	-	+		-	-
<i>Infant death</i>				+			
<i>Infectious diseases</i>			-	+		-	-
<i>Injuries</i>	-	-				-	-
<i>Kidney disease</i>				+			
<i>Lead poisoning</i>							
<i>Liver disease</i>						-	-
<i>Lung disease</i>						-	
<i>Mental health issues</i>	+		+			+	+
<i>Obesity/ overweight</i>			+	-		+	+
<i>STI</i>		-		+		-	-
<i>Stroke</i>	-	+					
<i>Teenage pregnancy</i>		-	-	+		-	-

7.2 Unhealthy Behaviors

Respondents were asked to select the three most important unhealthy behaviors in the community out of a total of 14 choices based on importance. Again note that the modified sample of 609 was used for aggregated responses in order to more accurately reflect the characteristics of the McLean County population.

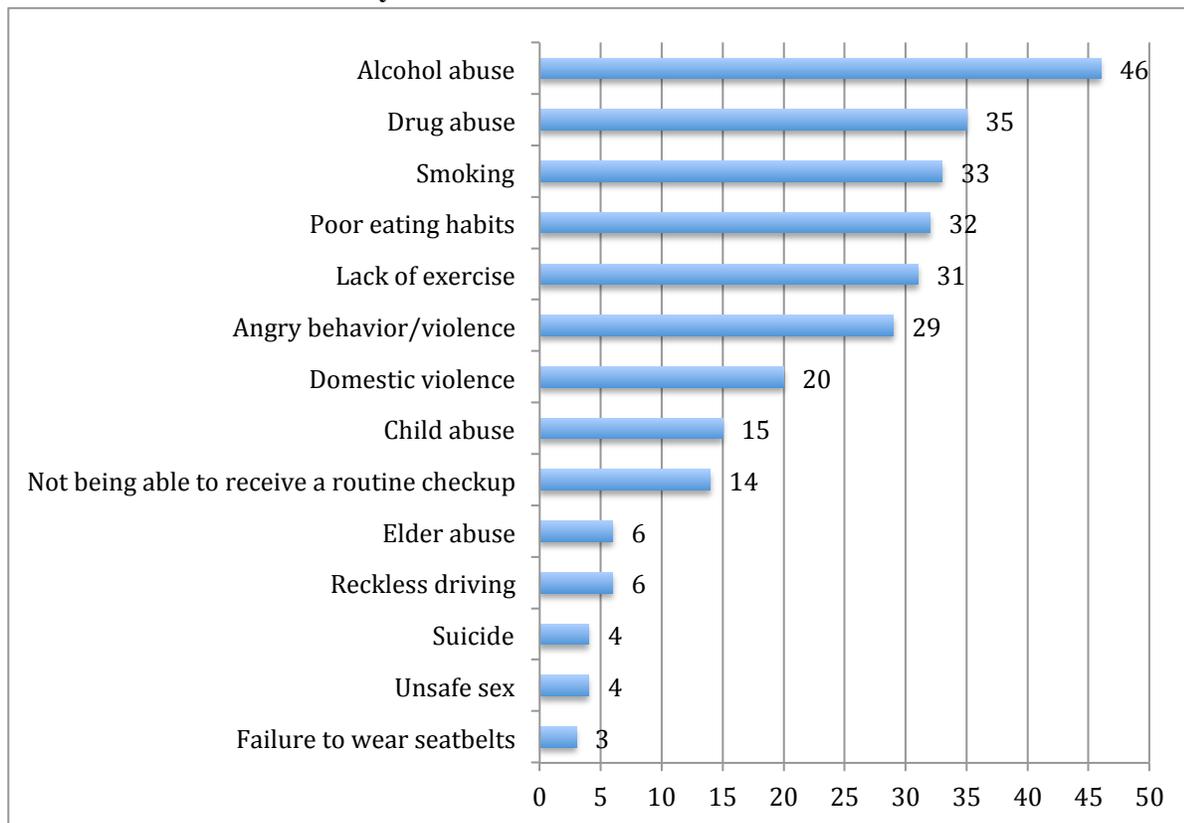
7.2.1 Aggregate Unhealthy Behaviors

The unhealthy behavior that rated highest was alcohol abuse. It was significantly higher than other categories based on *t-tests* between sample means.

This was followed by drug abuse, smoking, poor eating habits, lack of exercise, and angry behavior/general violence. Statistically, these three choices were rated similarly. The next unhealthy behaviors were domestic violence and child abuse. Other categories were only identified 14% of the time or less.

Note that perceptions of the community were accurate in some cases but inaccurate in others.

Table 7.2.1 McLean County Frequencies for Most Important Perceived Unhealthy Behaviors in the Community



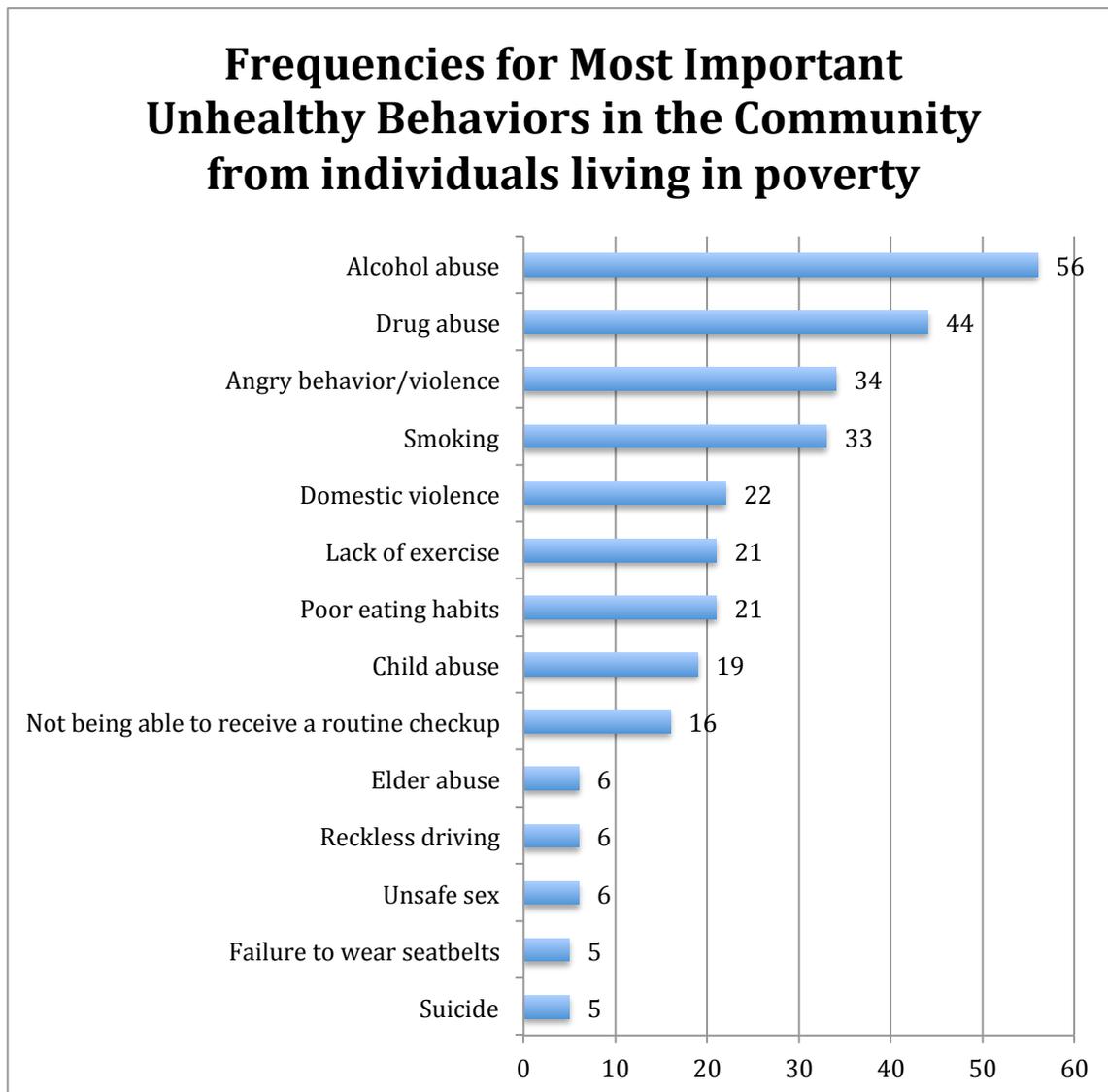
Note: n=609

St. Joseph Medical Center Community Health-Needs Assessment

7.2.2 Perceptions of Individuals Living in Poverty

When assessing perceptions of those living in poverty, it can be seen that major issues like alcohol abuse and drug abuse become significantly more important, indicating that individuals in poverty perceive more problems with substance abuse. Conversely, poor eating habits are perceived as being less important.

Table 7.2.2 Frequencies for Most Important Perceived Unhealthy Behaviors in the Community from Individuals Living in Poverty



St. Joseph Medical Center Community Health-Needs Assessment

7.2.3 Relationships between Perceptions and Demographics

Only significant relationships are reported in this section. The threshold used for significant correlations is ($p < .01$) given the large sample size. The following relationships can be identified.

Anger/Violence tends to be rated higher by individuals with the following characteristics: Women, of Black ethnicity, lower income, and less educated.

Alcohol abuse tends to be rated higher by individuals with the following characteristics: Men, of Latino/a ethnicity, less educated, and lower income.

Child abuse tends to be rated higher by individuals with the following characteristics: less educated.

Failure to wear a seatbelt tends to be rated lower by individuals with the following characteristics: of Black ethnicity.

Drug abuse tends to be rated higher by individuals identifying with Black ethnicity.

Elder abuse tends to be rated higher by women, older individuals, and individuals identifying with White ethnicity.

Lack of exercise tends to be rated higher by people with the following characteristics of White ethnicity and lower by individuals of Black ethnicity.

Poor eating habits tends to be rated higher by people with the following characteristics: more education, White ethnicity, and higher income and lower by individuals of Black ethnicity.

Smoking tends to be rated higher by people with the following characteristics: men and younger.

Suicide tends to be rated higher by younger individuals and women.

Unsafe sex tends to be rated lower by individuals with the following characteristics: Younger, less education, and lower income.

St. Joseph Medical Center Community Health-Needs Assessment

Table 7.2.3 Significant Correlations among Most Important Perceived Unhealthy Behaviors in the Community and Demographic Variables

	Gender	Age	Race (White)	Race (Black)	Latino/a	Education	Income
<i>Angry behavior/violence</i>	+			+		-	-
<i>Alcohol abuse</i>	-				+	-	-
<i>Child abuse</i>						-	
<i>Domestic violence</i>				+			
<i>Failure to wear seatbelts</i>				-			
<i>Drug abuse</i>				+		-	-
<i>Elder abuse</i>	+	+	+				
<i>Lack of exercise</i>			+	-			
<i>Not being able to receive a routine checkup</i>							
<i>Poor eating habits</i>			+	-		+	+
<i>Reckless driving</i>							
<i>Smoking</i>	-	-					
<i>Suicide</i>	+	-					
<i>Unsafe sex</i>		-				-	-

7.3 Issues with Quality of Life

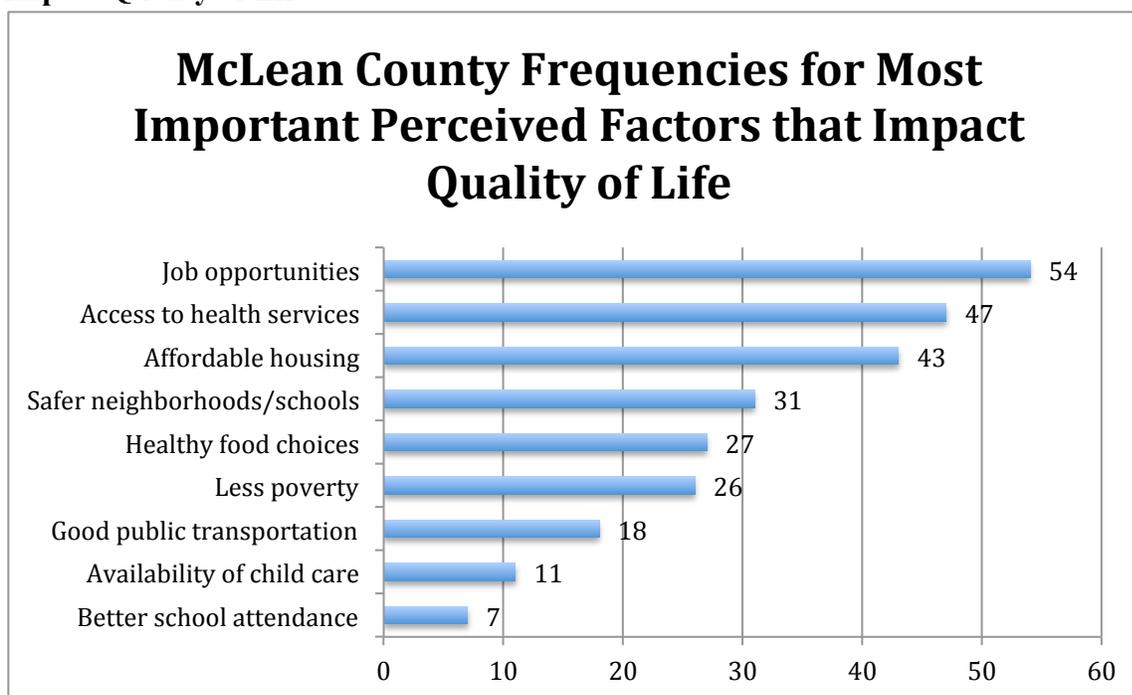
Respondents were asked to select the three most important issues impacting quality of life in the community out of a total of 9 choices based on importance. Again note that the modified sample of 609 was used for aggregated responses in order to more accurately reflect the characteristics of McLean County.

7.3.1 Aggregate issues impacting quality of life

The issues impacting quality of life that rated highest were job opportunities and access to health services. They were both significantly higher than other categories based on *t-tests* between sample means. It is not surprising that job opportunities was rated high given the recent recession.

This was followed by affordable housing, safer neighborhoods, healthy food choices and less poverty. Statistically, these four choices were rated similarly.

Table 7.3.1 McLean County Frequencies for Most Important Perceived Factors that Impact Quality of Life



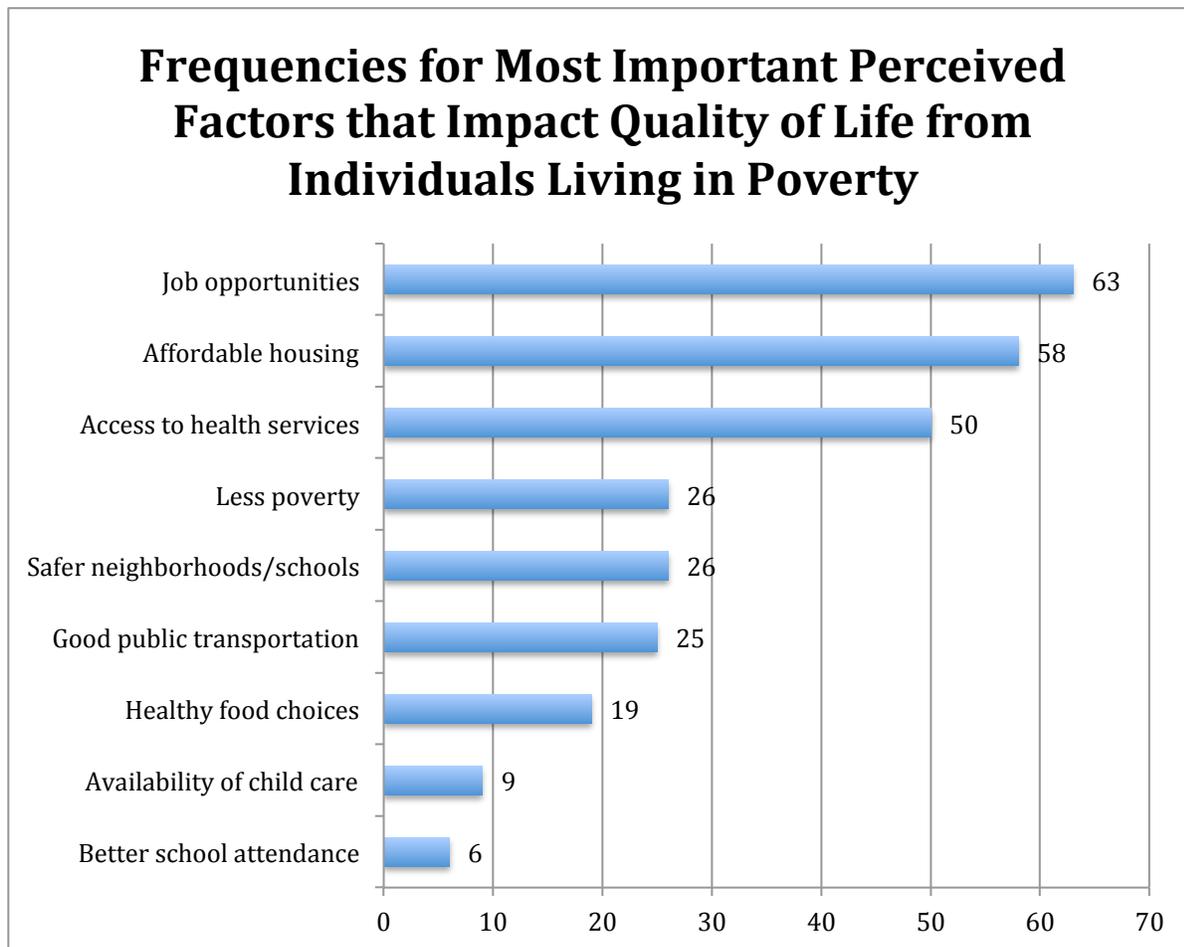
Note: n=609

St. Joseph Medical Center Community Health-Needs Assessment

7.3.2 Perceptions of Individuals Living in Poverty

When assessing perceptions of those living in poverty, it can be seen that perceptions are similar to the aggregated sample. Affordable housing and good public transportation are significantly more important to individuals living in poverty than those from the aggregated sample.

Table 7.3.2 Frequencies for Most Important Perceived Factors that Impact Quality of Life from Individuals Living in Poverty



St. Joseph Medical Center Community Health-Needs Assessment

7.3.3 Relationships between Perceptions and Demographics

Only significant relationships are reported in this section. The threshold used for significant correlations is ($p < .01$) given the large sample size. The following relationships can be identified.

Access to health services tend to be rated higher by individuals with the following characteristics: of White ethnicity.

Affordable housing tend to be rated higher by people with the following characteristics: Younger, of Black ethnicity, less educated, and lower income.

Availability of child care tends to be rated higher by women and younger people.

Job opportunities tend to be rated higher by individuals identifying with Black ethnicity, lower income, and younger individuals.

Public transportation tends to be rated higher by individuals of Black ethnicity, younger people, and lower income.

Healthy food choices tends to be rated higher by individuals identifying with White ethnicity, more education, and higher incomes.

Less poverty tends to be rated higher by individuals identifying with White ethnicity and older.

Safer neighborhoods tends to be rated higher by individuals identifying with White ethnicity.

Table 7.3.3 Significant Correlations among Most Important Perceived Factors that Impact Quality of Life and Demographic Variables

	Gender	Age	Race (White)	Race (Black)	Latino/a	Education	Income
<i>Access to health services</i>			+				
<i>Affordable housing</i>		-		+		-	-
<i>Availability of child care</i>	+	-					
<i>Better school attendance</i>							
<i>Job opportunities</i>		-		+			-
<i>Good public transportation</i>				+		-	-
<i>Healthy food choices</i>			+			+	+
<i>Less poverty</i>		+	+				
<i>Safer neighborhoods/schools</i>			+				

Community Perceptions: Strategic Implications

Lung disease appears to be perceived relatively low compared to actual rates of COPD and asthma in McLean County. Individuals with more education appear to have the largest misperceptions regarding the importance of understanding lung disease in the community.

Similarly, instances of stroke seem to be perceived relatively low compared to actual rates of stroke in McLean County. Females and younger individuals appear to have the largest misperceptions regarding the importance of understanding stroke in the community.

Heart disease appears to be perceived relatively low compared to actual causes of mortality. Specifically, respondents who identify with Black ethnicity appear to have the largest misperceptions regarding the importance of understanding heart disease in the community.

CHAPTER 8. ACCESSIBILITY TO HEALTH CARE

In this chapter, results examining access to health services are presented. Specifically, access to medical care, prescription medication, dental care and counseling are presented. First, scores are presented for McLean County. Next, responses are presented for those living in deep poverty. After each category, relationships between accessibility and demographic variables are presented in order to identify where certain demographic characteristics influence access to health services.

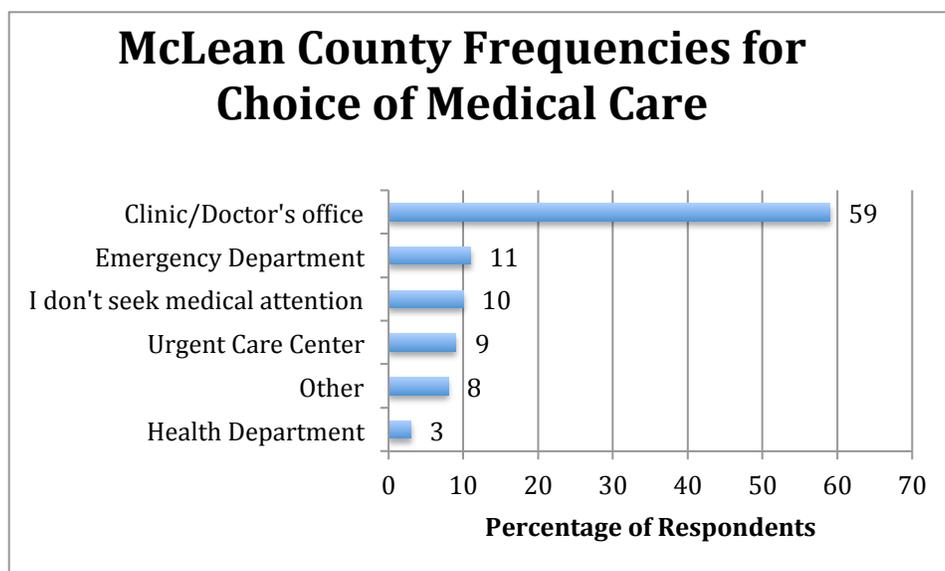
8.1 Choice of Medical Care

Respondents were asked to select the type of health care they used when they were sick. Six different alternatives were presented, including clinic or doctor's office, emergency department, Urgent care facility, health department, no medical treatment, and other. The modified sample of 609 was used for aggregated responses in order to more accurately reflect the demographic characteristics for McLean County.

8.1.1 Aggregate Responses

The most common response was clinic/doctor's office, where 59% of survey respondents chose this as their primary choice for medical care. This was followed by the emergency department at a hospital (11%), not seeking medical attention (10%), the urgent care (9%), other (8%), and the health department (3%). Note however that Health Department numbers may be skewed lower, as no surveys were distributed at the Health Department to ensure accurate measures for accessibility to health care. Moreover, respondents may have interpreted the Health Department as a clinic.

Table 8.1.1 McLean County Frequencies for Choice of Medical Care



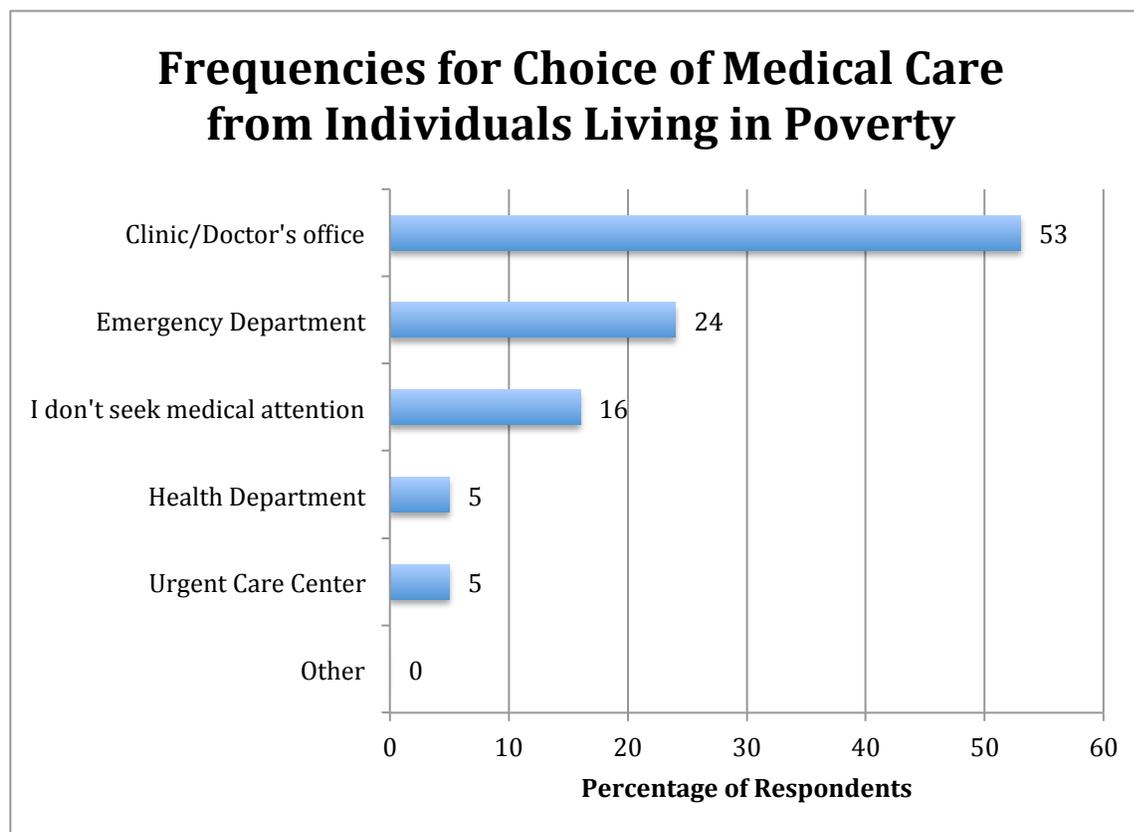
n=609

St. Joseph Medical Center Community Health-Needs Assessment

8.1.2. Perceptions of individuals living in poverty

Note that for individuals living in poverty, 53% choose a clinic/doctor's office as their first choice for medical care and 16% of individuals living in poverty do not seek medical attention. 24% utilize the emergency department when sick.

Table 8.1.2 Frequencies for Choice of Medical Care from Individuals Living in Poverty



St. Joseph Medical Center Community Health-Needs Assessment

8.1.3 Relationships between Choice of Medical Care and Demographics

Note that for Chapter 8 and 9 the homeless are added as a demographic variable.

Health department tends to be rated higher by people with the following characteristics: lower income and less educated. Individuals identifying with White ethnicity tend to rate it lower.

Emergency department tends to be rated higher by people with the following characteristics: men, younger, of Black ethnicity, less education, and lower income.

Clinic/Doctor's office tends to be rated higher by people with the following characteristics: women, older, white ethnicity, more education, and higher income. Individuals of Latino/a ethnicity tend to rate it lower.

Don't seek medical treatment tends to be rated higher by people with the following characteristics: men, younger, less education, and lower income.

Urgent Care Center tends to be higher by individuals of Latino/a ethnicity, of White ethnicity, more education and higher income. Individuals of Black ethnicity tend to rate it lower.

Table 8.1.3 Significant Correlations among Choice of Health Care and Demographic Variables

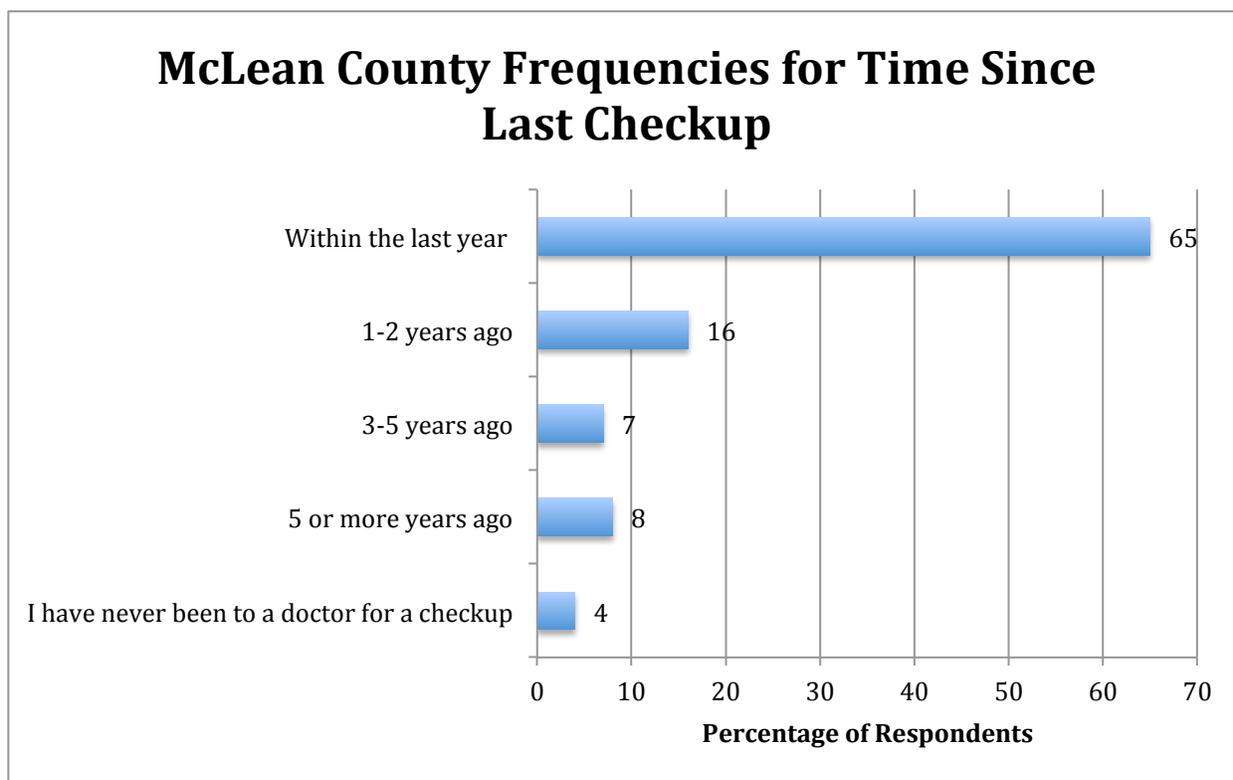
	Gender	Age	Race (White)	Race (Black)	Latino/a	Education	Income
<i>Health Department</i>			-			-	-
<i>Emergency Department</i>	-	-		+		-	-
<i>Clinic/Doctor's office</i>	+	+	+		-	+	+
<i>I don't seek medical attention</i>	-	-				-	-
<i>Urgent Care Center</i>			+	-	+	+	+

8.2 Frequency of Checkups

8.2.1 Aggregated responses

Respondents were asked how often they had a checkup. Of respondents, 65% received a checkup in the last year, 16% in the past 1-2 years, 7% in the last 3-5 years, 8% 5 years or more and 4% have never been to a doctor's office for a checkup. The modified sample of 609 was used for aggregated responses in order to more accurately reflect the demographic characteristics of McLean County.

Table 8.2.1 McLean County Frequencies for Time Since Last Checkup

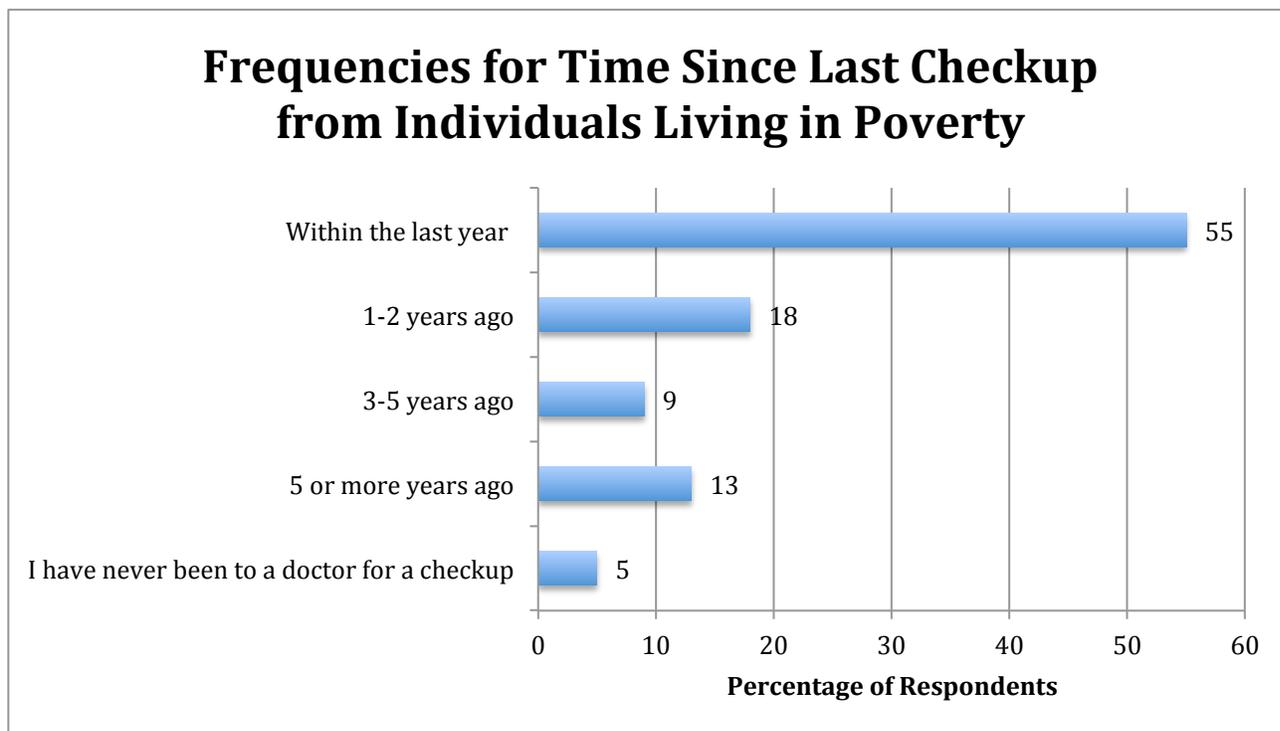


Note: n=609

8.2.2 People living in poverty

Note that people living in poverty were different than the aggregated population when going to a doctor for a checkup. Specifically, 27% of people living in deep poverty had not seen a doctor in 3 or more years.

Table 8.2.2 Frequencies for Time Since Last Checkup from Individuals Living in Poverty



St. Joseph Medical Center Community Health-Needs Assessment

8.2.3 Relationships between frequency of checkups and demographics

The data show that men, younger people, individuals with lower income, individuals with less education, and homeless individuals are less likely to get a checkup at a doctor's office. Moreover, results of Ordinary-Least-Squared regression models show that homelessness is the most important predictor, followed by income, gender and age, based on significance levels of *beta* coefficients.

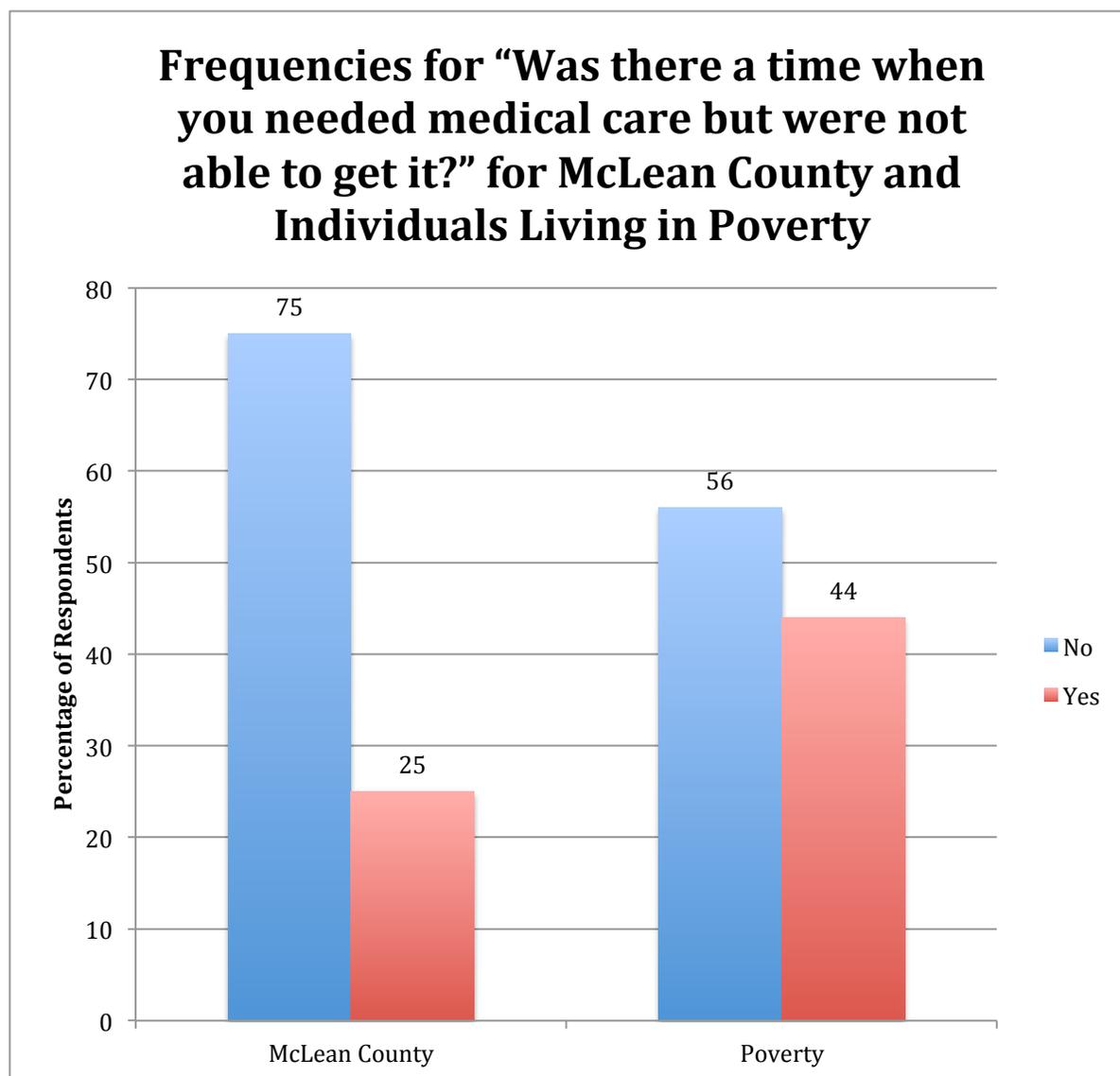
Table 8.2.3 Significant Correlations for Time Since Last Checkup

Gender	-
Age	-
Education	-
Income	-
Homeless	+

8.3 Access to Medical Care

Respondents were asked, “Was there a time when you needed medical care but were not able to get it?” 75% of McLean County residents were able to receive medical care, however compared to individuals living in deep poverty, only 56% were able to receive medical care. Put differently, 44% of individuals living in poverty could not get access to medical care when necessary.

Table 8.3.1 Frequencies for “Was there a time when you needed medical care but were not able to get it?” for McLean County and Individuals Living in Poverty



St. Joseph Medical Center Community Health-Needs Assessment

For relationships between access to medical care and demographics, note that the relationships are reverse coded. Therefore a survey respondent was more likely to answer that they did not have access to medical care if they were younger, less educated, possessed lower income, were of non-White ethnicity, and were homeless. Logit regression results indicate that less education, younger people, homeless and non-White ethnicity were the most important predictors respectively, based on significance levels of *beta* coefficients.

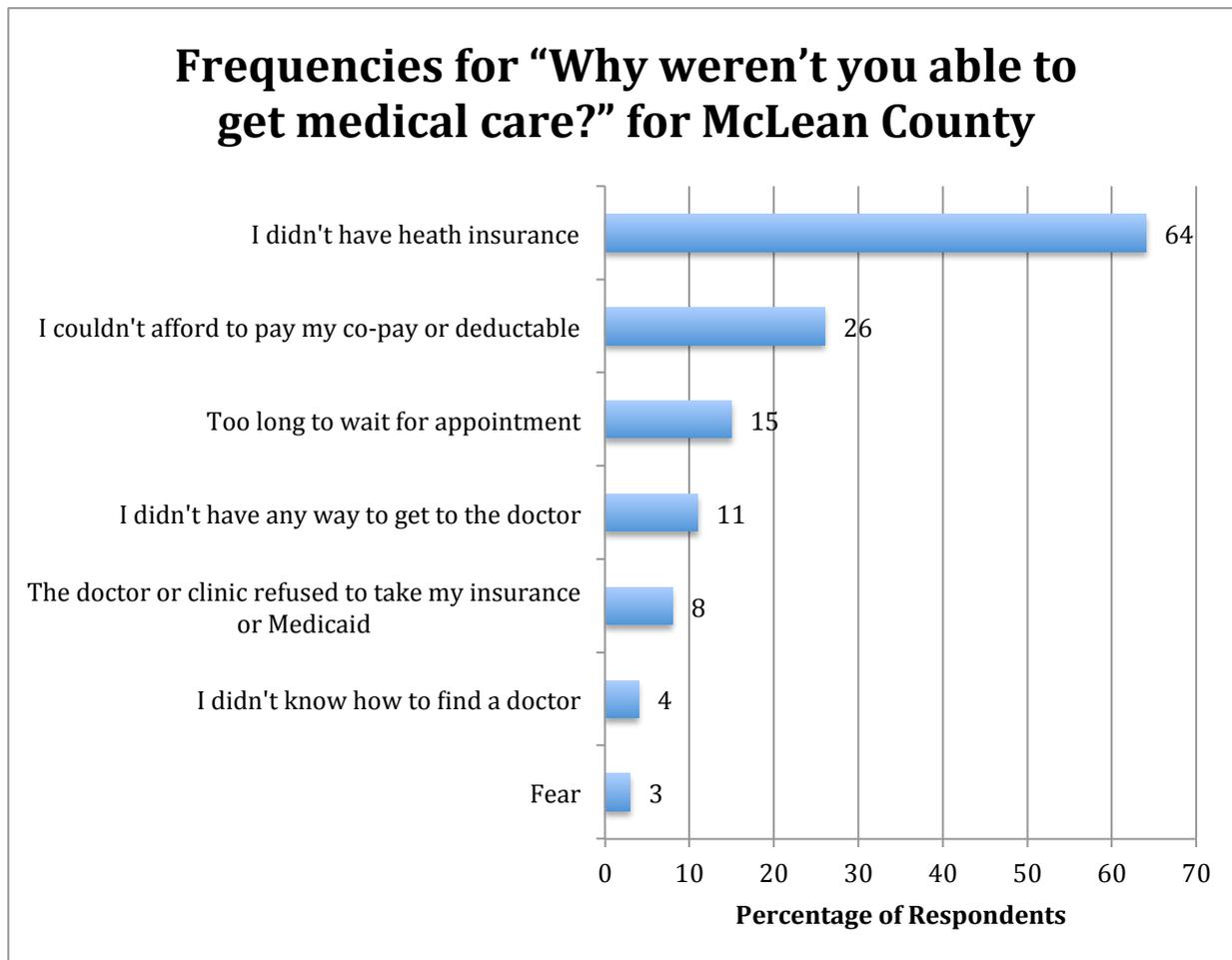
Table 8.3.2 Significant Correlations for “Was there a time when you needed medical care but were not able to get it?”

Age	-
Education	-
Income	-
Homeless	+
Race (White)	-

St. Joseph Medical Center Community Health-Needs Assessment

The leading causes of why someone did not have access to medical care were no insurance (64%) and the inability to afford copayments or deductibles (26%). This was followed by too long to wait for an appointment (15%). Note that total percentages do not equal 100% as respondents could choose more than one answer.

Table 8.3.3.1 Frequencies for “Why weren’t you able to get medical care?” for McLean County



Note: n=147

8.4 Access to Prescription Medications

Respondents were asked, “Was there a time when you needed prescription medicine but were not able to get it?” 73% of McLean County residents were able to receive prescription medicine, however compared to individuals living in deep poverty, only 54% were able to receive prescription drugs. Put differently, 46% of individuals living in poverty could not get access to medical care when necessary.

For relationships between access to prescription medications and demographics, logit regression results indicate that homeless was the most important predictor, based on significance levels of *beta* coefficients.

Table 8.4.1 Frequencies for “Was there a time when you needed prescription medicine but were not able to get it?” for McLean County and Individuals Living in Poverty

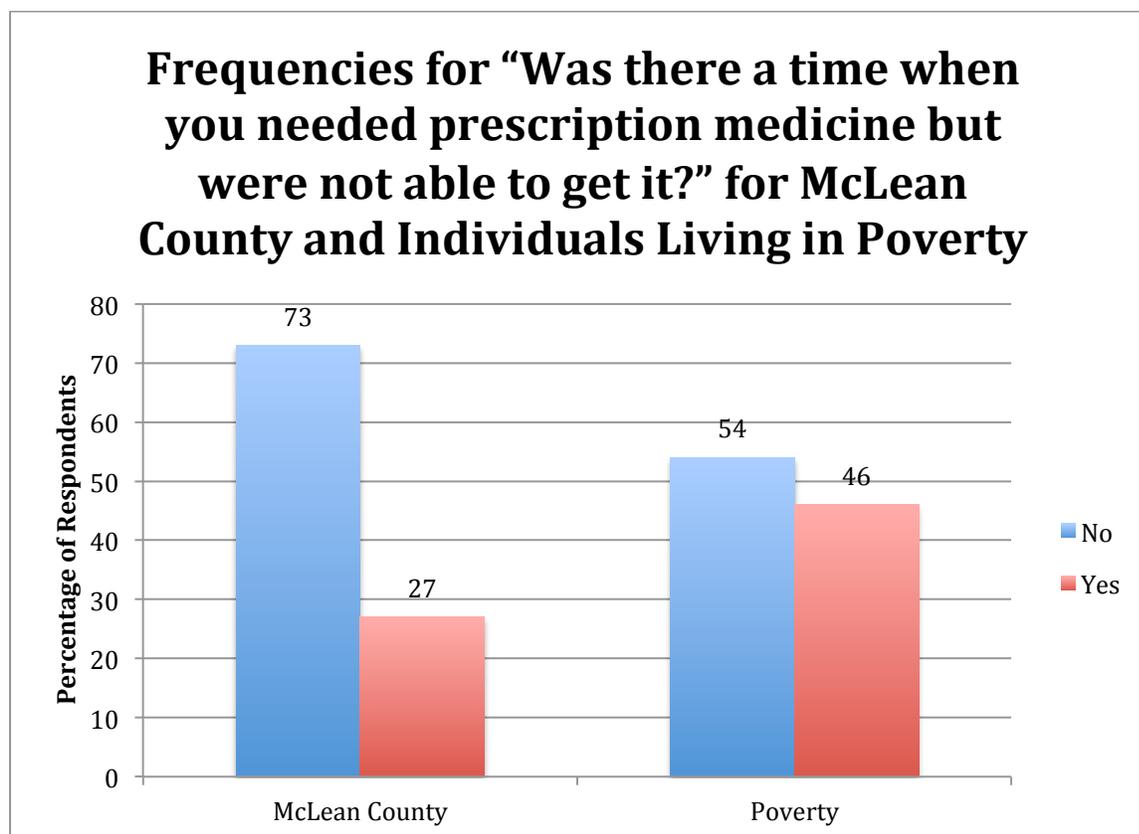


Table 8.4.2 Significant Correlations for “Was there a time in the last year when you needed prescription medication and were unable to get it?”

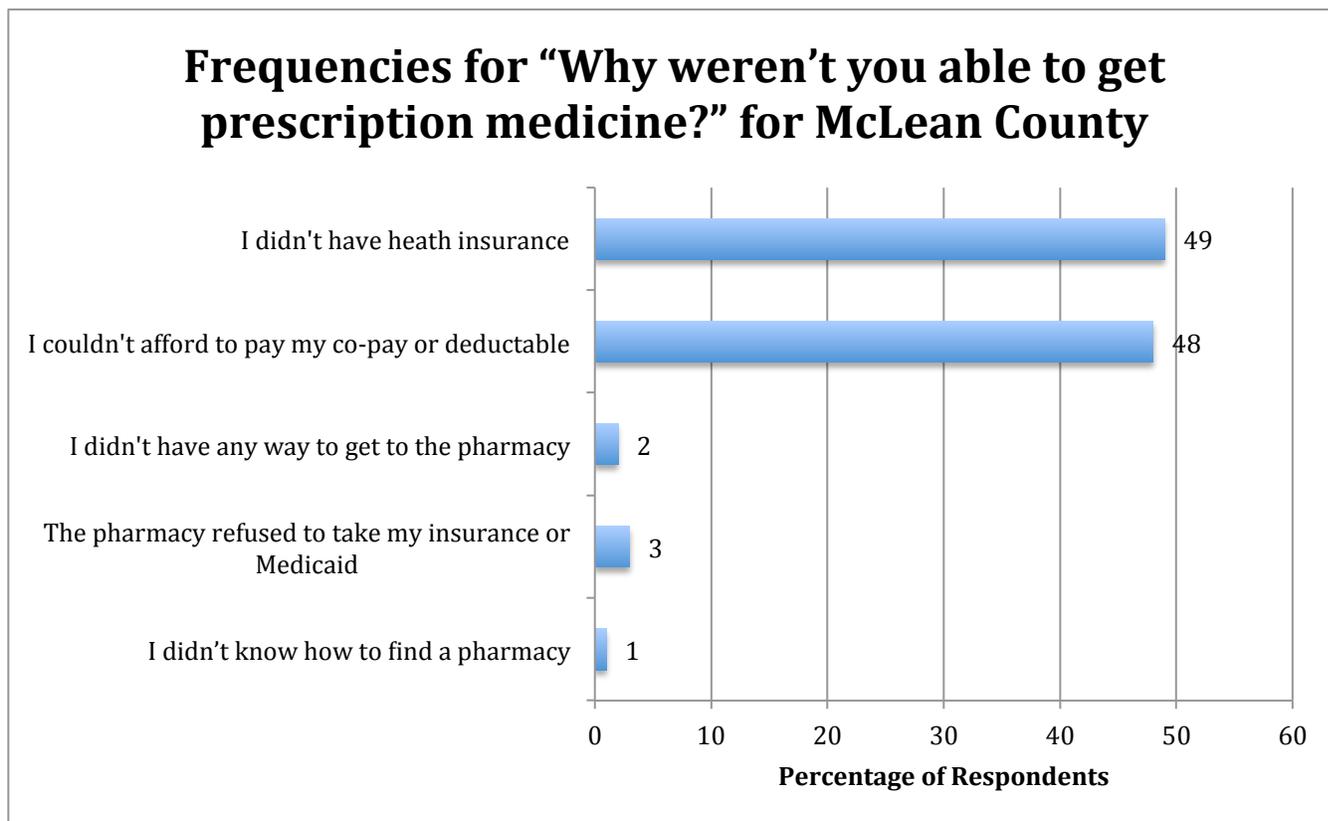
Age	-
Race (White)	-
Race (Black)	+
Education	-
Income	-
Homeless	+

For relationships between needing prescription drugs and demographics, note that the relationships are reverse coded. Therefore a survey respondent was more likely to answer that they did not have access to prescription drugs if they were older, of non-White ethnicity, possessed less education, were of lower income, or were homeless.

St. Joseph Medical Center Community Health-Needs Assessment

The leading causes of why someone did not have access to prescription medicine were no insurance (49%) and the inability to afford copayments or deductibles (48%). Note that total percentages do not equal 100% as respondents could choose more than one answer.

Table 8.4.3 Frequencies for “Why weren’t you able to get prescription medicine?” for McLean County



Note: n=147

St. Joseph Medical Center Community Health-Needs Assessment

Table 8.4.4 Significant Correlations for Reasons Why Individuals Were Not Able to Obtain Prescription Medication in the Past Year

	Gender	Age	Race (White)	Race (Black)	Latino/a	Education	Income	Homeless
<i>No Insurance</i>	-	-	-			-	-	+
<i>Can't afford copay/deductable</i>	+			+				
<i>I didn't know how to find a pharmacy</i>	-		-	+				

Note that “No Insurance” tends to be rated higher by people with the following characteristics: men, younger, less educated, and lower income, and homeless. Individuals of White ethnicity tend to rate it lower. “Can’t afford copay” tends to be rated higher by women and individuals identifying with Black ethnicity. “I don’t know how to find a pharmacy” tends to be rated higher by men and individuals identifying with Black ethnicity and lower by individuals of White ethnicity.

8.5 Access to Dental Care

Respondents were asked when was the last time that they had a dental checkup. Residents in McLean County indicated that 51% of residents have had a dental checkup in the last year. For those living in deep poverty, only 26% had a dental checkup in the last year.

Note that Ordinary-Least-Squared regression modeling indicates that age, homelessness, non-White and men rated access to dental checkups lower, based on significance levels of *beta* coefficients.

Table 8.5.1 Frequencies for Time Since Last Dental Checkup for McLean County and Individuals Living in Poverty

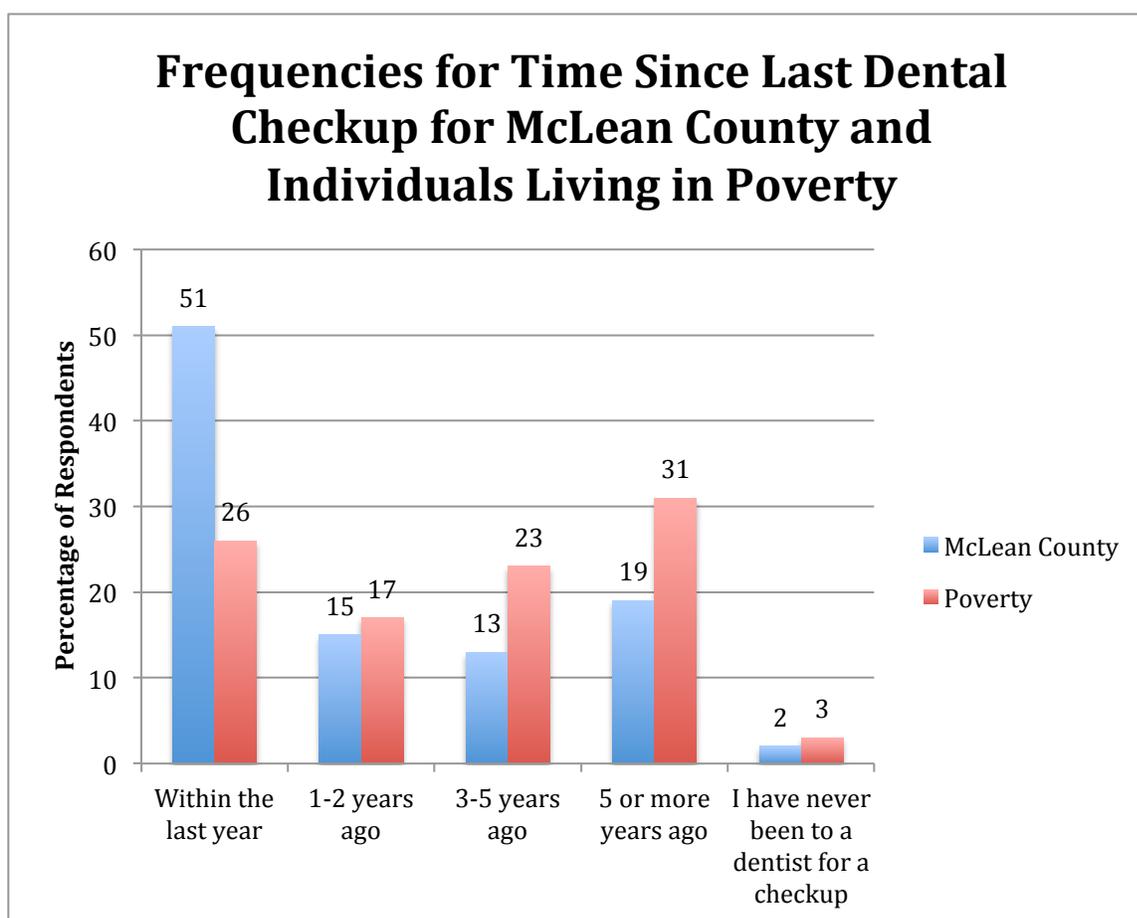


Table 8.5.2 Significant Correlations for Time Since Last Dental Checkup

Gender	-
Age	-
Race (White)	-
Education	-
Income	-
Homeless	+

For relationships between time since last dental checkup and demographic variables, note that the relationships are reverse coded. Therefore a survey respondent was more likely to answer that a longer time has passed since his or her last dental checkup if they were a man, they were younger, they were of non-White ethnicity, they possessed less education, they possessed less income, and were homeless.

St. Joseph Medical Center Community Health-Needs Assessment

Respondents were then asked, “Was there a time when you needed dental care but were not able to get it?” Note that for McLean County, only 30% respondents indicated that they were unable to obtain dental care when they needed it. Compared to the figures for people living in poverty, 44% indicated that they could not get access to dental care when necessary.

Logistic regression modeling indicated that lower income, younger age, Black ethnicity and Latino/a ethnicity were more likely not to have access to dental care based on significance levels of *beta* coefficients.

Table 8.5.3 Frequencies for “Was there a time when you needed dental care but were not able to get it?” for McLean County and Individuals Living in Poverty

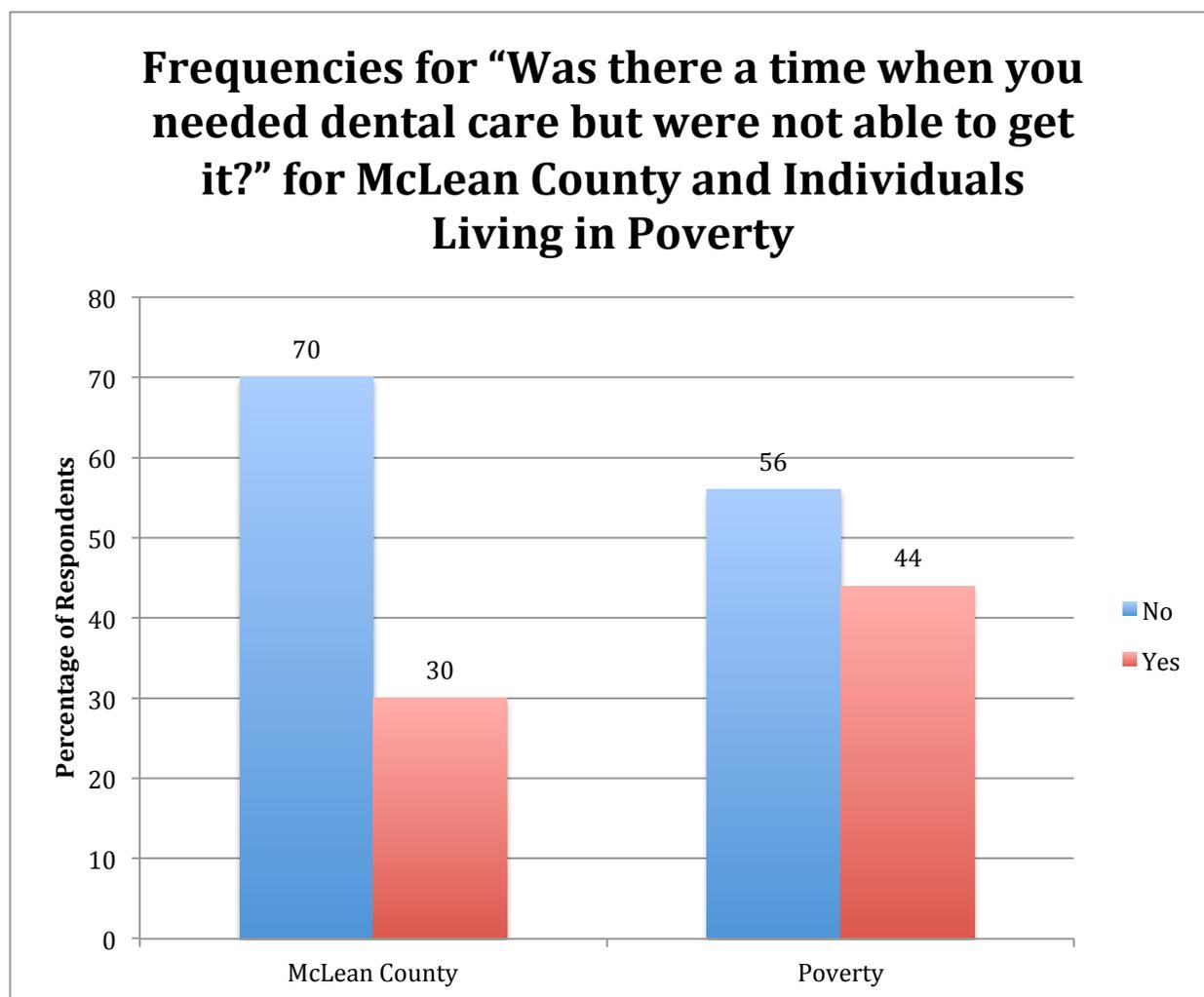


Table 8.5.4 Significant Correlations for “In the last year, was there a time when you needed dental care but could not get it?”

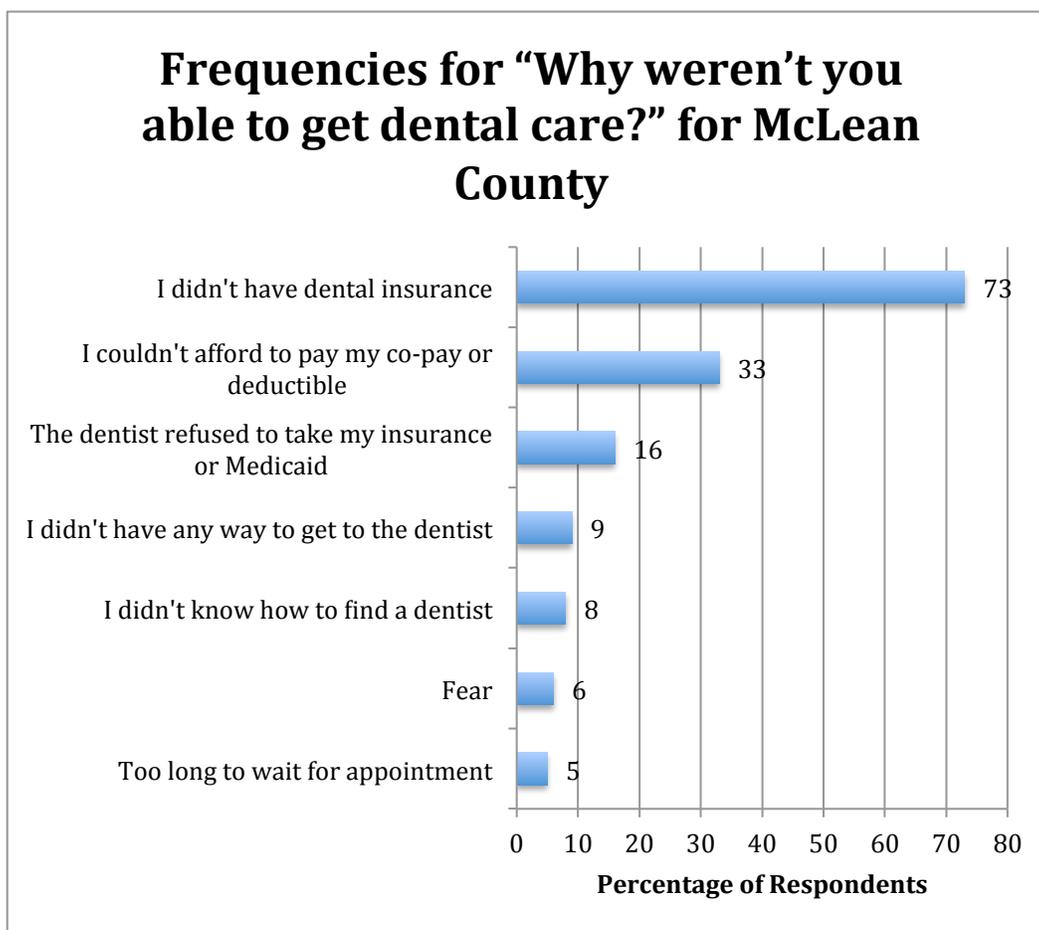
Age	-
Race (White)	-
Race (Black)	+
Latino/a	+
Education	-
Income	-
Homeless	+

For relationships between needing dental care and demographic variables, note that the relationships are reverse coded. Therefore a survey respondent was more likely to answer that he or she needed dental care and were unable to receive it if they were younger, of non-White ethnicity, of lower income, homeless and possessed less education.

St. Joseph Medical Center Community Health-Needs Assessment

The leading causes of why someone did not have access to dental care were no insurance (73%) and the inability to afford copayments or deductibles (33%). While fear was a non-issue with access to medical care, 6% of respondents indicated they did not get access to dental care because they were uncomfortable going to the dentist. Note that total percentages do not equal 100% as respondents could choose more than one answer.

Table 8.5.5 Frequencies for “Why weren’t you able to get dental care?” for McLean County



Note: n=147

St. Joseph Medical Center Community Health-Needs Assessment

Table 8.5.6 Significant Correlations for “Why weren’t you able to get dental care?”

	Gender	Age	Race (White)	Race (Black)	Latino/a	Education	Income	Homeless
<i>No Insurance</i>							-	
<i>Can't afford copay/deductible</i>								
<i>I didn't have any way to get to the dentist</i>								
<i>Refused my insurance/Medicaid</i>	+							
<i>I didn't know how to find a dentist</i>								
<i>Too long to wait for appointment</i>								
<i>Fear</i>		-						

Note several significant relationships between demographic variables and the reasons why individuals were not able to obtain dental care in the past year:

No insurance tends to be rated higher by individuals with less income.

Refused my insurance/Medicaid tends to be rated higher by women.

Fear tends to be rated higher by younger people.

8.6 Access to Counseling

Respondents were asked, “Was there a time when you needed counseling but were not able to get it?” 14% of respondents in McLean County agreed that when he or she needed counseling, he or she was unable to obtain it. The percentage for individuals living in poverty is nearly double (25%).

Logit regression results indicated that low income, younger people and homelessness were the most important predictors of no access to counseling, respectively.

Table 8.6.1 Frequencies for “Was there a time when you needed counseling but were not able to get it?” for McLean County and Individuals Living in Poverty

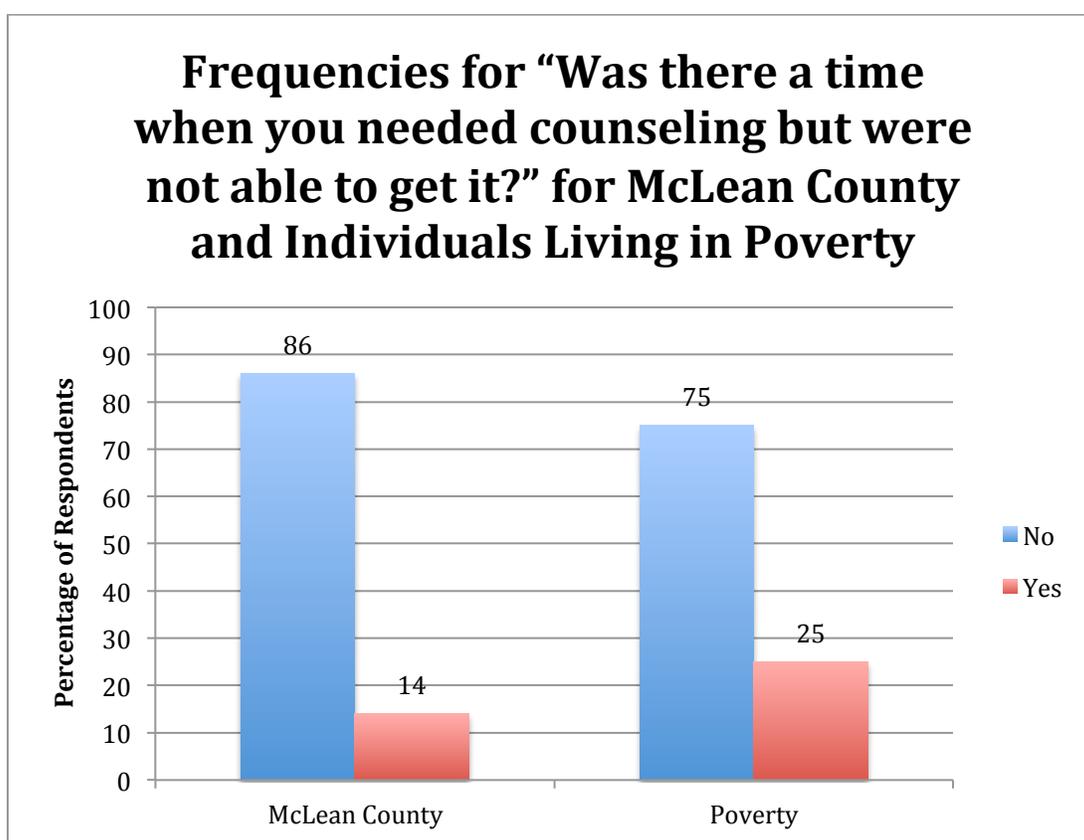


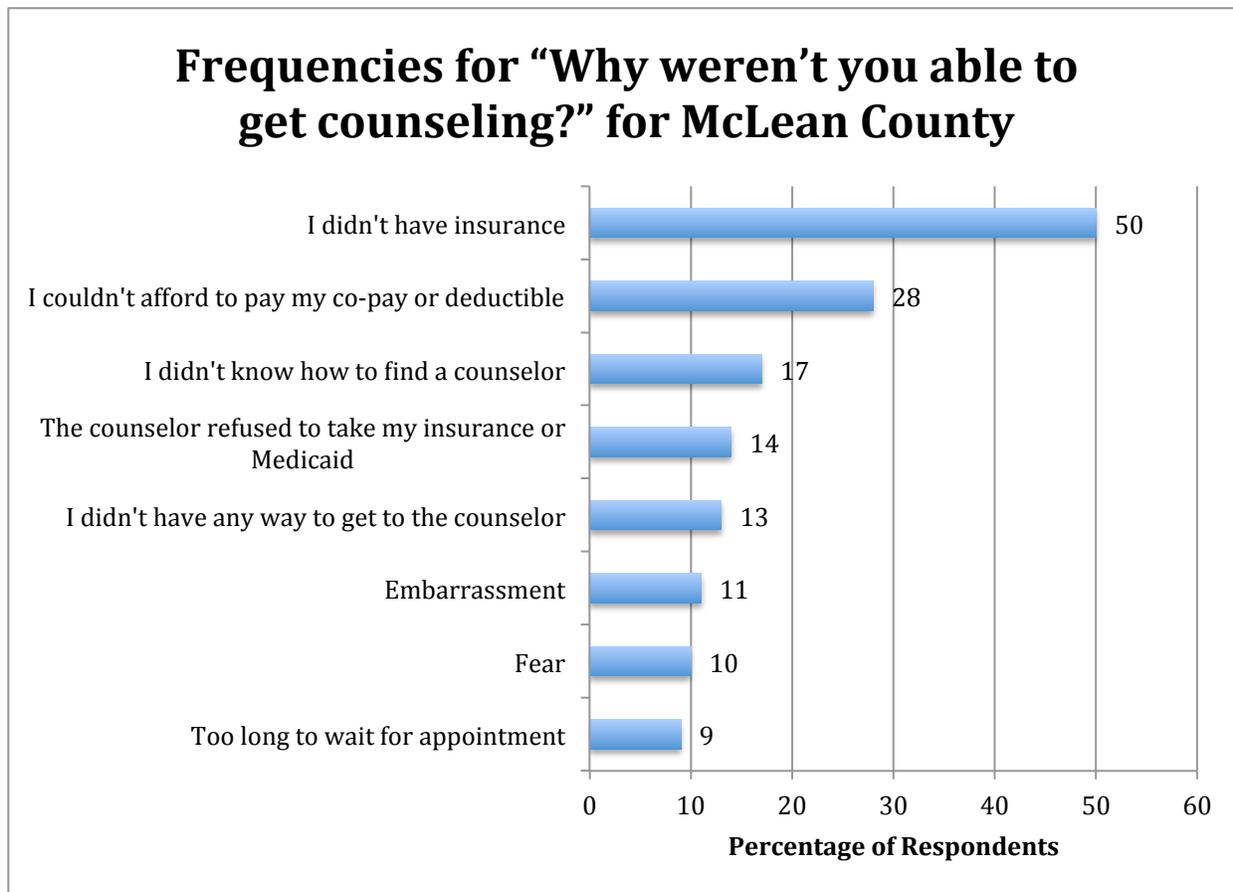
Table 8.6.2 Significant Correlations for “In the last year, was there a time when you needed counseling but could not get it?”

Age	-
Education	-
Income	-
Homeless	+

For relationships between needing counseling and demographic variables, note that the relationships are reverse coded. Therefore a survey respondent was more likely to answer that he or she needed counseling and was unable to receive it if they were homeless, possessed less education, possessed lower income, and were younger.

The leading causes of why someone did not have access to counseling were no insurance (50%) and the inability to afford copayments or deductibles (28%). Embarrassment was the sixth leading cause at 11%. Note that total percentages do not equal 100% as respondents could choose more than one answer.

Table 8.6.3 Frequencies for “Why weren’t you able to get counseling?” for McLean County



Note: n=147

Table 8.6.4 Significant Correlations for Reasons Why Individuals Were Not Able to Obtain Counseling in the Past Year

	Gender	Age	Race (White)	Race (Black)	Latino/a	Education	Income	Homeless
<i>No Insurance</i>		-				-	-	+
<i>Can't afford copay/deductible</i>				+				
<i>I didn't have any way to get to the counselor</i>								
<i>Refused my insurance/Medicaid</i>								
<i>Too long to wait for appointment</i>								+
<i>Fear</i>								
<i>Embarrassment</i>								

Note several significant relationships between demographic variables and the reasons why individuals were not able to obtain counseling in the past year:

No Insurance tends to be rated higher by younger individuals, individuals with lower income, less education, and those individuals who are homeless.

Can't afford copay/deductible tends to be rated higher by individuals of Black ethnicity.

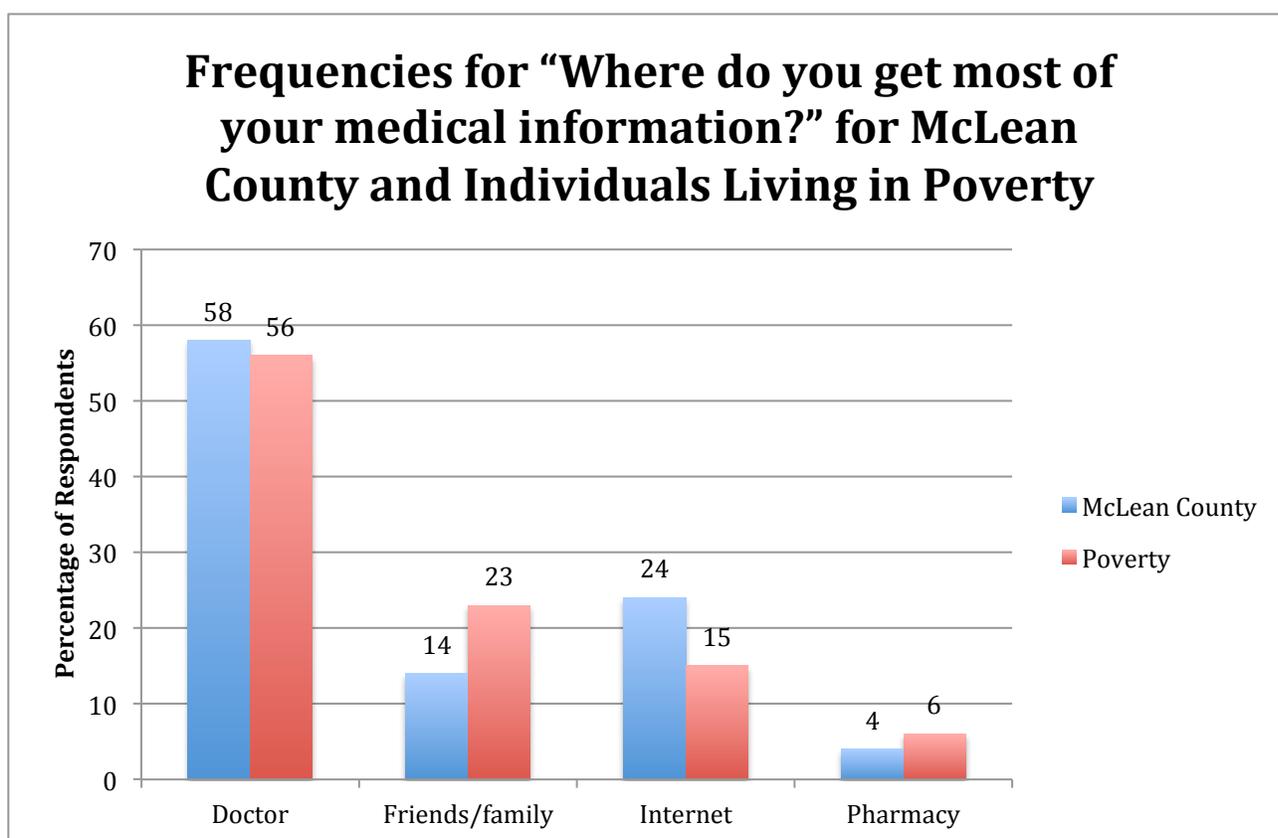
Too long to wait for an appointment tends to be rated higher by homeless individuals.

8.7 Access to Information

Respondents were asked, “Where do you get most of your medical information.” The vast majority of respondents obtained information from their doctor. While the Internet was the second most common choice, it was significantly lower than information from doctors. Note that for individuals living in poverty, friends/family were more important than the Internet.

There were no statistically significant relationships between access to information and demographic factors.

Table 8.7.1 Frequencies for “Where do you get most of your medical information?” for McLean County and Individuals Living in Poverty

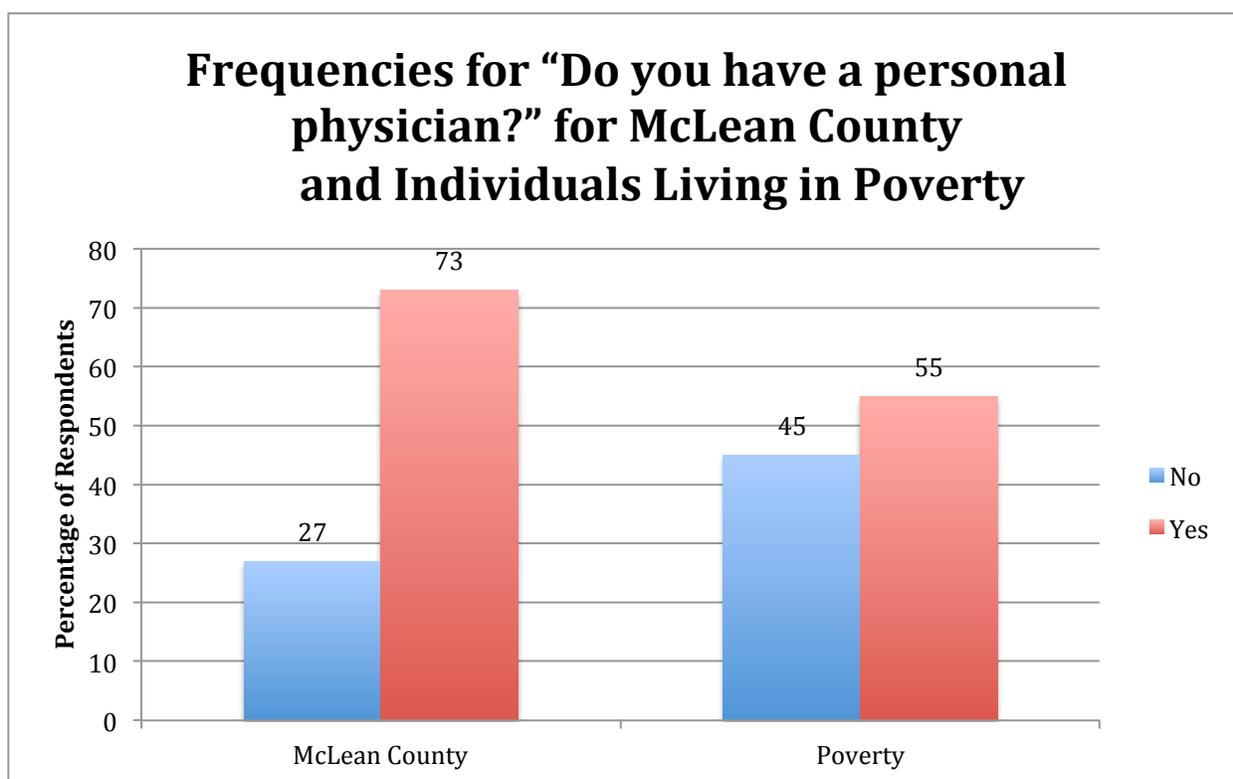


8.8 Personal physician

Respondents were asked if they had a personal physician. For McLean County, 88% of respondents indicated that they had a personal physician.

Logit regression analyses reveal that people with higher incomes, women, White ethnicity, and older people positively impacted whether someone had a personal physician, and homelessness had a negative impact on whether someone had a personal physician.

Table 8.8.1 Frequencies for “Do you have a personal physician?” for McLean County and Individuals Living in Poverty



St. Joseph Medical Center Community Health-Needs Assessment

Numerous significant relationships exist between access to a personal physician and demographic variables. Specifically, a survey respondent was more likely to answer that he or she did not have a personal physician if they were homeless, of Black ethnicity, or of Latino/a ethnicity, and was more likely to answer that he or she did have a personal physician if he or she was a woman, older, more educated, of White ethnicity, and earned more income.

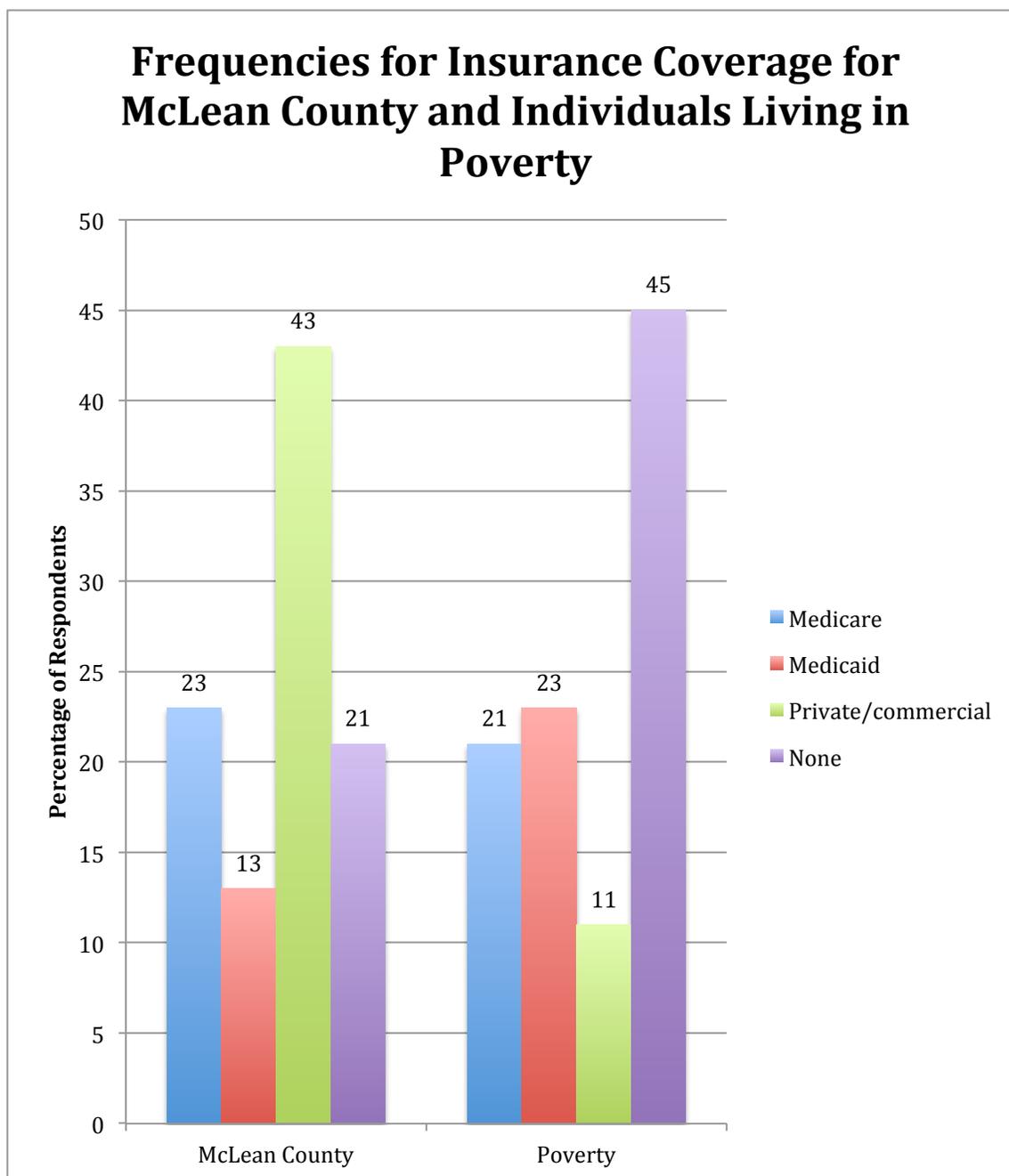
Table 8.8.2 Significant Correlations among Access to a Personal Physician and Demographic Variables

	Gender	Age	Race (White)	Race (Black)	Latino/a	Education	Income	Homeless
<i>Do you have a personal physician?</i>	+	+	+	-	-	+	+	-

8.9 Type of Insurance

Respondents were asked to identify the type of insurance that they had. In McLean County, the most prevalent type of insurance is private or commercial, however, those living in poverty are disproportionately more reliant on Medicaid or have no insurance.

Table 8.9.1 Frequencies for Insurance Coverage for McLean County and Individuals Living in Poverty



St. Joseph Medical Center Community Health-Needs Assessment

Access to Health Care: Strategic Implications

Approximately 50% of people living in deep poverty seek medical services at a clinic or doctor's office. For this segment of the population, while 24% seek medical services from an emergency department, approximately 16% will not seek any medical services at all or "other" non-traditional sources of care. Those most likely to not seek any medical services when sick include males, younger individuals, and individuals with lower incomes.

44% of the population living in deep poverty indicated there was a time in the last year when they were not able to get medical care when needed. According to regression results, this was more likely among individuals who were younger, less educated, possessed lower income, were of non-White ethnicity, and were homeless. The leading causes were lack of insurance and inability to afford a copayment or deductible. Similar results were found for access to prescription medication. Regression results indicated that homeless individuals, younger individuals, individuals with lower incomes and less education, and individuals of Black ethnicity were less likely to have access to necessary prescription medication. Again the leading causes of the inability to have access to prescription medications were lack of insurance and inability to afford copayment or deductibles.

While significant research exists linking dental care to numerous diseases, including heart disease, 51% of McLean County residents had a checkup in the last year. Specifically, individuals who were male, younger, were of non-White ethnicity, possessed less education, possessed less income, and were homeless were less likely to visit a dentist. Moreover, note that almost half of people living in poverty (44%) indicated that they needed dental care in the last year, but were not able to get it. Lack of dental insurance and inability to afford copayments were the leading causes.

Approximately 25% of people living in deep poverty indicated they were not able to get counseling when they needed it over the last 12 months. Leading indicators are younger individuals, individuals with less education and lower income, and homelessness. While affordability and insurance were the leading reasons, embarrassment were also significant barriers to mental health services.

Across categories, residents of McLean County get most of their medical information from doctors and the next most prevalent is the Internet.

The most prevalent type of insurance is private or commercial, however, those living in poverty are disproportionately more reliant on Medicaid. Also for those living in poverty, 45% do not have any type of insurance at all.

CHAPTER 9. HEALTHY BEHAVIORS

In this chapter, healthy behaviors of the community are presented. Specifically, frequency of physical exercise, healthy eating habits and smoking are examined. Additionally, overall self-perceptions of health are presented.

9.1 Physical Exercise

Respondents were asked how frequently they engage in physical exercise. The majority of the population across all categories does not engage in sufficient exercise. Note that these findings are more consistent with state averages when compared to data reported by the *Illinois Behavioral Risk Factor Surveillance System* data.

Numerous significant relationships exist between physical exercise and demographic variables. Specifically, a survey respondent was more likely to answer that he or she exercised regularly if they were possessed higher income and were more educated.

Table 9.1.1 Frequencies for “In the last week, how many times did you exercise?” for McLean County and Individuals Living in Poverty

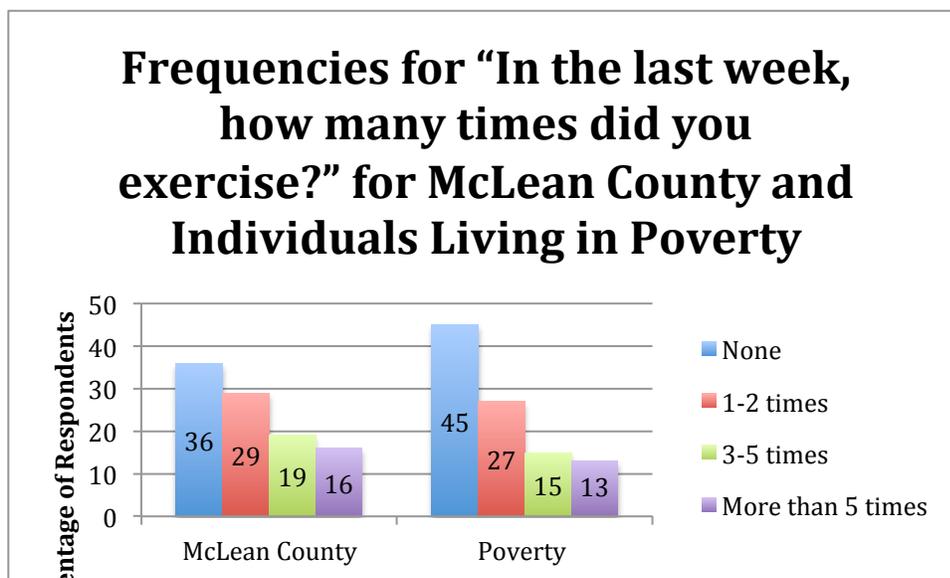


Table 9.1.2 Significant Correlations among “In the last week, how many times did you exercise?” and Demographic Variables

Education	+
Income	+

9.2 Healthy Eating

For healthy eating habits, about 34% of the population consumes at least three servings of fruits/vegetables in a day. Moreover, only about 7% of the population consumes the minimal recommended daily amount of vegetables. These findings are inconsistent with the *Illinois Behavioral Risk Factor Surveillance System* data, as the BRFSS data suggests approximately 14% of McLean County residents consume 5 or more servings of fruits and vegetables per day. Additional research by the CDC states that for a typical person consuming 2,200 calories per day, they should have 7 servings of vegetables.

Table 9.2.1 Frequencies for “On a typical day, how many servings of fruits and/or vegetables do you eat?” for McLean County and Individuals Living in Poverty

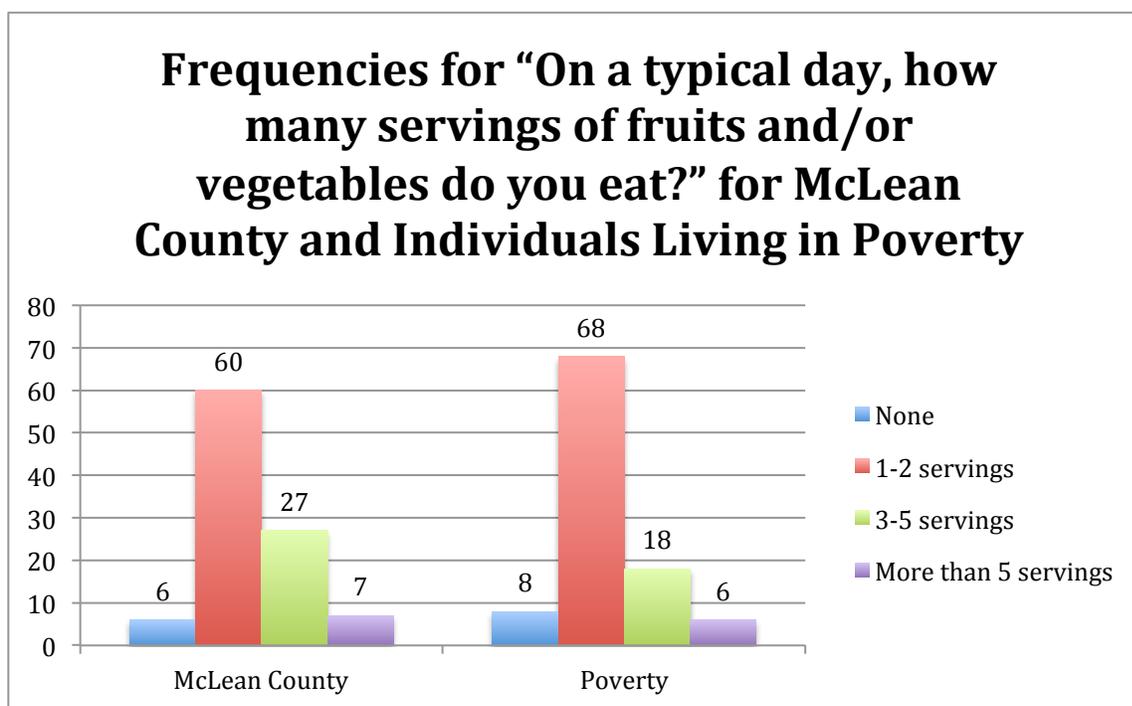


Table 9.2.2 Significant Correlations among Number of Servings of Fruits and Vegetables Consumed Daily and Demographic Variables

Gender	+
Age	+
Education	+
Income	+
Homeless	-

Numerous significant relationships exist between consumption of fruits and vegetables and demographic variables. Specifically, a survey respondent was more likely to answer that he or she consumed more fruits and vegetables each day if they were had earned a higher income, had attained higher levels of education, were female, and were older. Homeless individuals were less likely to consume more fruits and vegetables.

9.3 Smoking

Primary data suggests that individuals living in poverty are significantly more likely to smoke. Note that when comparing these data to the *Illinois Behavioral Risk Factor Surveillance System* data, the CHNA survey assesses the frequency of smoking compared to whether a respondent smoked or did not smoke.

Table 9.3.1 Frequencies for “On a typical day, how many cigarettes do you smoke?” for McLean County and Individuals Living in Poverty

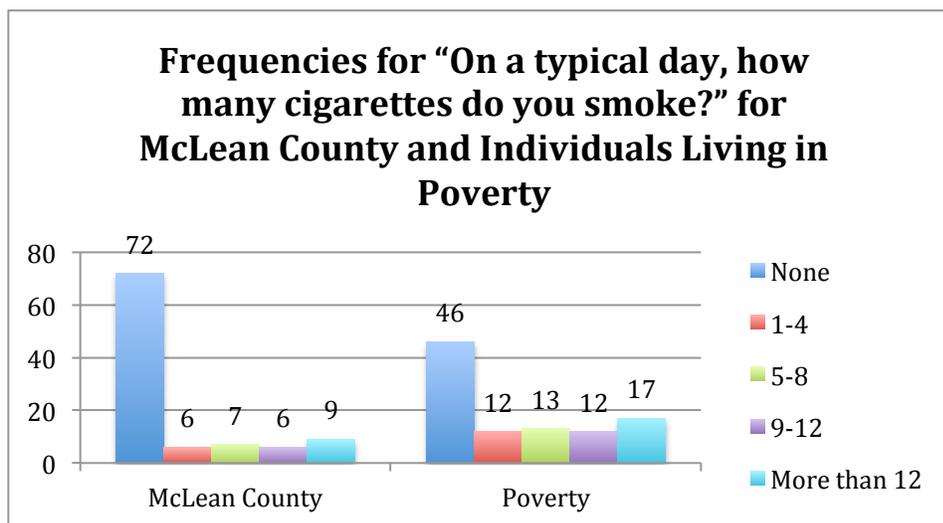


Table 9.3.2 Significant Correlations among Number of Cigarettes Smoked Daily, and Demographic Variables

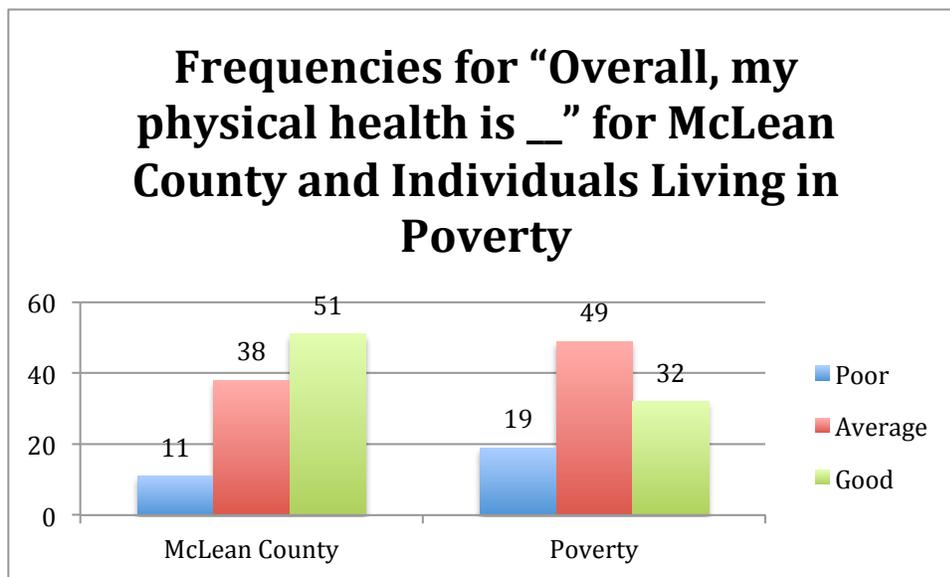
Gender	-
Age	-
Race (White)	-
Education	-
Income	-
Homeless	+

Numerous significant relationships exist between cigarette smoking and demographic variables. Specifically, a survey respondent was more likely to answer that he or she smoked more cigarettes each day if they were male, younger, were homeless, were less educated, and earned less income. Individuals of White ethnicity were less likely to smoke.

9.4 Overall Health

In terms of self-perceptions of physical and mental health, 89% of the population indicated that they were in average or good physical health. Similar results were found for residents’ self-perceptions of mental health.

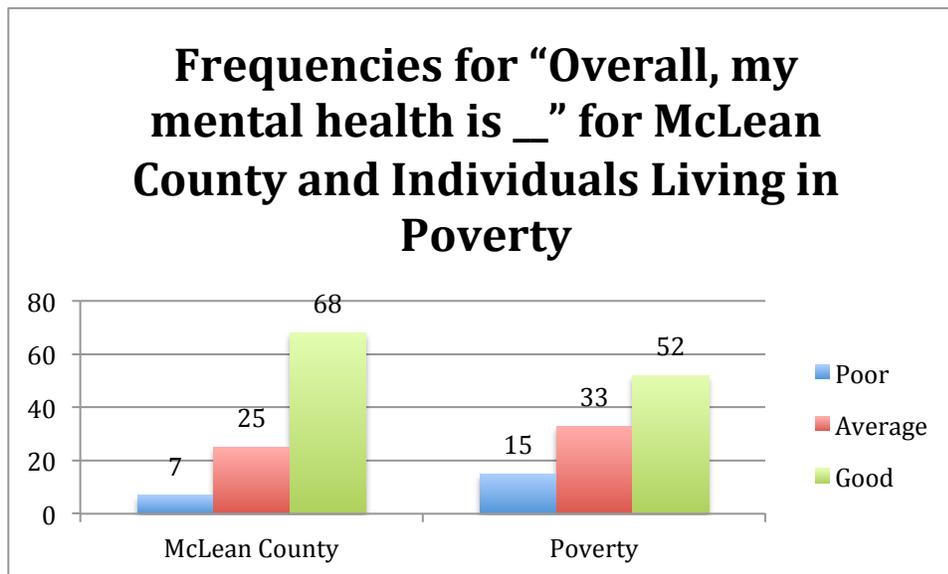
Table 9.4.1 Frequencies for “Overall, my physical health is __” for McLean County and Individuals Living in Poverty



Numerous significant relationships exist between overall physical health and demographic variables. Specifically, a survey respondent was more likely to answer that he or she possessed better physical health if they were of earned a higher income and had attained higher levels of education. Conversely, a survey respondent was more likely to answer that he or she possessed poorer physical health if they were homeless or identified with Latino/a ethnicity.

Table 9.4.2 Significant Correlations among Overall Physical Health and Demographic Variables,

Latino/a	-
Education	+
Income	+
Homeless	-

Table 9.4.3 Frequencies for “Overall, my mental health is __” for McLean County and Individuals Living in Poverty

Numerous significant relationships exist between overall mental health and demographic variables. Specifically, a survey respondent was more likely to answer that he or she possessed better mental health if they were older, earned a higher income, and had attained higher levels of education. Conversely, a survey respondent was more likely to answer that he or she possessed poorer mental health if they were homeless.

Table 9.4.4 Significant Correlations among Overall Mental Health and Demographic Variables

Age	+
Education	+
Income	+
Homeless	-

Healthy Behaviors: Strategic Implications

For healthy behaviors, McLean County residents who possessed higher income, or were more educated are more likely to engage in physical exercise, although 37% of the population engages in exercise at least 3 times a week. Similarly for healthy eating habits, about 34% of the population consumes at least three servings of fruits/vegetables in a day. Those that are more likely to have healthy eating habits include females, older individuals, people with higher education and more income, and individuals who are not homeless. Given the documented research showing the benefits of physical exercise and healthy eating, this is a concern for the community, as most primary and secondary diagnoses in the McLean County community can be mitigated, to some extent, by healthy lifestyle.

Data suggests smoking is a concern in McLean County, with individuals who were male, younger, were homeless, were less educated, and earning less income as being more likely to smoke.

In terms of self-perceptions of physical and mental health, 89% of the population indicated that they were in average or good physical health. Similar results were found for residents' self-perceptions of mental health.

PHASE III – PRIORITIZATION OF HEALTH-RELATED ISSUES

The identification and prioritization of the most important health-related issues in McLean County are identified in Phase III. To accomplish this, a summary of Phase I and Phase II were performed to provide a foundation for the prioritization process. After summarizing all of the issues in the Community Health Needs Assessment, a comprehensive assessment of existing community resources was performed to identify the efficacy to which health-related issues were being addressed. Finally a collaborative team of leaders in the healthcare community used an importance/urgency methodology to identify the most critical issues in the area. Results are included in Chapter 10.

CHAPTER 10. PRIORITIZATION OF HEALTH-RELATED ISSUES

In this chapter, we identify the most critical health-related needs in the community. To accomplish this, first we identified the most important areas of concern. Next we completed a comprehensive inventory of community resources, and finally we identified the most important health concerns in the community.

Specific criteria used to identify these issues included: (1) magnitude to the community; (2) strategic importance to the community; (3) existing community resources; (4) potential for impact; and (5) trends and future forecasts.

10.1 Summary of Community Health Issues

Based on findings from the previous analyses, a chapter-by-chapter summary of key takeaways was necessary to provide a foundation to identify the most important health-related issues in the community. Considerations for identifying key takeaways included prevalence of the issues, importance to the community, impact, trends and projected growth.

Demographics (Chapter 1) – Three factors were identified as the most important areas of concern from the demographic analyses: increasing elderly population, mental health rates and poverty.

Accessibility (Chapter 2) – Residents in McLean County are getting fewer routine checkups for both medical and dental visits. There was also a significant decrease in the frequency of women getting mammograms, although McLean County is still better than the State of Illinois averages.

Symptoms and Predictors (Chapter 3) – Based on prevalence and growth rates, factors were identified as having significant impact on the community. These include, obesity, poor nutrition and risky behaviors, including drug and alcohol abuse and smoking.

Diseases/Morbidity (Chapter 4) – By evaluating magnitude of morbidities and growth rates of morbidities, several specific issues were identified. These included stroke, asthma, COPD, diabetes (specifically Type II diabetes) and cardiovascular disease.

St. Joseph Medical Center Community Health-Needs Assessment

Mortality (Chapter 5) – The two leading causes of mortality were heart disease and cancer. While there were other categories for mortality, heart disease and cancer were significantly more prevalent than all other categories.

Community Misperceptions (Chapter 7) – Based on results from the survey, respondents to the survey incorrectly perceived “heart disease” “lung disease” and “stroke” as being relatively unimportant health concerns in the community.

Access to Health Services (Chapter 8) – Results from survey respondents defined as living in deep poverty indicated that access to healthcare surveys is limited. This includes medical, prescription, dental and mental healthcare.

Health-Related Behaviors (Chapter 9) – Results from survey respondents defined as living in deep poverty indicated that there are limited efforts at proactively managing one’s own health. This includes limited exercise, poor eating habits and increased incidence of smoking

In order to provide parsimony in the prioritization of key community health-related issues, the findings were aggregated into 12 key categories, based on similarities and duplication. The 12 areas were:

- **Obesity**
- **Risky Behavior-Substance Abuse**
- **Mental Health**
- **Healthy Behavior/Nutrition**
- **Access to Health Services**
- **Respiratory Issues**
- **Heart Disease**
- **Cancer**
- **Diabetes**
- **Community Health Misperceptions**
- **Dental**
- **Women’s Health**

10.2 Community Resources

After summarizing issues in the Community Health Needs Assessment, a comprehensive analysis of existing community resources was performed to identify the efficacy to which these 12 health-related issues were being addressed.

There are numerous forms of resources in the community. They are categorized as recreational facilities, county health departments, community agencies and area hospitals/clinics.

St. Joseph Medical Center Community Health-Needs Assessment

10.2.1 Recreational Facilities (3)

McLean County Parks and Recreation

Obesity, Healthy Behaviors, Heart Disease

The McLean County Parks and Recreation Department provides opportunities for leisure activities in a variety of ways by the individual, either through their own initiative or through organized programs and educational sessions. Such opportunities include Constitution Trail.

Four Seasons Association

Obesity, Healthy Behaviors, Heart Disease

The Four Seasons Association is a family oriented not-for-profit health club in the community that plays an active role in acknowledging various health issues and providing opportunities to combat these concerns. Resources/programs include healthy eating every day, active living every day, dietician programs and services, and corporate outreach program.

Bloomington-Normal YMCA

Obesity, Healthy Behaviors, Heart Disease, Women's Health

The Bloomington Normal YMCA offers high quality after school programs, swimming and gymnastics instruction, youth sports, teen programs, Day Camp and a variety of recreational experience for children and adults of all ages.

10.2.2 Health Departments (1)

McLean County Health Department

Obesity, Addiction/Substance Abuse, Mental Health, Healthy Behaviors, Access to Health Services, Respiratory Issues, Heart Disease, Cancer, Diabetes, Community Health Misperceptions, Dental, Women's Health

The McLean County Health Department seeks to fulfill the public interest in assuring conditions conducive to good health and providing leadership in promoting and protecting the health of county residents. The Health Department sponsors the Healthy Start, Grow Smart program, the Women, Infants, and Children (WIC) program, and provides assistance with completing AllKids and/or MPE applications for pregnant women. With regard to smoking, the McLean County Health Department sponsors the public awareness campaign for smoking and facilitates the Illinois Quit Line for smokers. MCHD also offers a dental clinic and sponsors a childcare nurse consultant to assist day care providers with child health needs.

10.2.3 Community Agencies/Private Practices (31)

Agape Counseling

Mental Health

Agape Counseling offers mental health evaluation and treatment in addition to pastoral counseling.

Alcoholics Anonymous / Al-Anon / Alateen / Gamblers Anonymous

Addiction/Substance Abuse

These three organizations under the umbrella of Alcoholics Anonymous are fellowships of men, women, and youth who share their experience, strength and hope with each other that they may

St. Joseph Medical Center Community Health-Needs Assessment

solve their common problem and help others to recover from alcoholism and other addictions. Alcoholics Anonymous, Al-Anon, and Alateen meetings are offered in the McLean County area.

America's Promise School Project

Dental

America's Promise School Project works with local schools via nursing students from Illinois State University to bring oral health messages to students.

American Academy of Pediatrics

Mental Health, Access to Health Services

Perinatal depression screenings from American Academy of Pediatrics are offered by care providers.

Bridge to Healthy Smiles Program

Dental

The Bridge to Healthy Smiles Program is sponsored by the Illinois State Dental Society.

Catholic Charities

Mental Health, Access to Health Services

Catholic Charities Senior Services program offers in-home counseling.

Center for Youth and Family Solutions

Mental Health

The Center for Youth and Family Solutions sponsors SASS, Screening, Assessment and Support Services. SASS provides intensive mental health services for children and youth who may need hospitalization for mental health care. SASS serves children experiencing a mental health crisis.

Chestnut Health Systems

Addiction/Substance Abuse, Access to Health Services

Chestnut Health Systems provides outpatient and residential treatment. While there is no longer a detox center at Chestnut, uninsured patients receive service despite lengthy wait times. In addition, Chestnut Health Systems offers adult and pediatric Medicaid primary care.

Collaborative Solutions Institute

Mental Health

The Collaborative Solutions Institute offers mental health evaluation and treatment, abuse counseling (spouse/domestic partner), anger management, and adolescent/youth counseling.

Community Cancer Center

Cancer

The Community Cancer Center offers the care of multiple physician specialties, the latest drug therapies, radiation treatment, research protocols and support services.

Community Diabetes Support Group

Diabetes

The Community Diabetes Support Group meets monthly to provide education/support for those with diabetes.

St. Joseph Medical Center Community Health-Needs Assessment

Depression and Bipolar Support Alliance

Mental Health

The Depression and Bipolar Support Alliance sponsors support groups for families/friends of mentally ill individuals and individuals with mental illness/emotional disabilities.

Emotions Anonymous

Mental Health

Emotions Anonymous sponsors several support groups around McLean County.

Employee Wellness Best Practices Group

Obesity, Healthy Behaviors

In response to the more workplaces that are recognizing the importance of worksite wellness programs, there is an Employee Wellness Best Practices group that meets quarterly.

Heartland Head Start

Healthy Behaviors, Dental

Heartland Head Start is a unique program providing comprehensive educational, health and social services for low-income pre-school age children and their families including a dental care program.

Heartland Healthcare Coalition

Diabetes

The Heartland Healthcare Coalition works in collaboration with local hospitals and the Town of Normal to offer coaching/education to Normal residents.

Illinois Alliance to Prevent Obesity

Obesity, Healthy Behaviors

The Illinois Alliance to Prevent Obesity has developed a statewide plan to address obesity.

John M. Scott Health Care Commission

Mental Health, Access to Health Care

The John M. Scott Health Care Commission provides some assistance with the high cost of medications, including short-term provision of psychiatric medications for those individuals recently released from prison.

McLean County Center for Human Services

Mental Health, Addiction/Substance Abuse

The McLean County Center for Human Services offers as Crisis Response Team to attend to urgent mental health issues and administer the Indigent Drug Program

McLean County Wellness Coalition

Obesity, Healthy Behaviors

McLean County Wellness Coalition has developed a community action plan focused on reducing obesity and chronic disease and improving the overall health of the community through the promotion and adoption of nutrition and physical activity systems, policy and environmental change. Many of the interventions proposed in this new CHP align with the Wellness Coalition's

St. Joseph Medical Center Community Health-Needs Assessment

community action plan. There are over 23 agencies/organizations represented on the Wellness Coalition.

Mental Health America of McLean County

Mental Health

Mental Health America of McLean County is dedicated to promoting mental health, working for the prevention of mental illnesses and improving care and treatment for persons suffering from mental and emotional disorders.

MyPE Program at Illinois State University

Obesity, Healthy Behaviors

The MyPE Program is a school health and wellness initiative that includes student and faculty/staff wellness. Included within the scope of the program are new national nutrition standards, improvements in PE, and fitness testing.

National Alliance for the Mentally Ill

Mental Health

The National Alliance for the Mentally Ill (NAMI) is a self-help, non-profit organization serves the central Illinois region as an affiliate of the National Alliance on Mental Illness, dedicated to improving the quality of life for persons with neuro-biological brain disorders.

Oxford House

Addiction/Substance Abuse

The Oxford House provides recovery homes and halfway houses for men and women addressing substance use problems.

PATH 211

Mental Health

PATH 211, sponsored by the United Way, offers suicide prevention services and support to help individuals locate health and human service assistance including: food, shelter, rent and utility assistance, physical and mental health resources, employment supports, volunteer opportunities and support resources for children, older Americans and people with disabilities.

Project Oz

Mental Health, Addiction/Substance Abuse

Project Oz is a not-for-profit human service agency that has been serving youth and families in McLean County for over 35 years. We focus on preventing drug abuse, empowering youth and young adults, assisting homeless and runaway youth, and helping teens stay in school.

Say It Out Loud

Mental Health

"Say It Out Loud" is a multi-year statewide campaign in Illinois to promote good mental health sponsored by Mental Health Illinois.

St. Joseph Medical Center Community Health-Needs Assessment

Seniors For Healthy Living

Access to Health Services

Seniors For Healthy Living offers quarterly education and screenings offered in collaboration with Normal Township Seniors Program. In addition, SFHL distributes health information to locations where people are already congregating and links individuals to physician and clinician offices.

Teaching Garden

Healthy Behavior/Nutrition

In collaboration with the American Heart Association, the Teaching Garden offers local schools to give children hands on experience with growing, harvesting and cooking with vegetables.

United Way of McLean County

Access to Health Services, Community Health Misperceptions

The United Way is a recognized leader in helping solve community problems by gathering and distributing, in an efficient and accountable manner, community resources that respond to priority health and human service needs.

Various private practices

Respiratory issues, Heart disease, Dental

Several local physicians specialize in pulmonology and allergy/immunology. Other local physicians specialize in cardiology, interventionists and Cardiovascular Surgeons. Local dentists also provide educational opportunities to the community and arrange for semiannual free “extraction” clinics.

Western Avenue Community Center

Healthy Behaviors

The Western Avenue Community Center offers nutrition education through the University of Illinois Extension, Nutrition, Family and Consumer Science Program.

10.2.4 Hospitals/Clinics (3)

Advocate BroMenn Medical Center

Obesity, Addiction/Substance Abuse, Mental Health, Healthy Behaviors, Access to Health Services, Respiratory Issues, Heart Disease, Cancer, Diabetes, Community Health Misperceptions, Women’s Health

With a medical staff of nearly 370 physicians, representing more than 40 specialties, Advocate BroMenn Medical Center is a 221-bed full-service, acute care, not-for-profit hospital located in Normal. Advocate BroMenn has several active joint ventures with other organizations, including a cancer center, an Advanced MRI site, a sleep center, an addiction recovery unit, a recovery care center, an orthopedics & sports medicine center and assisted living facilities. Advocate BroMenn offers the region’s only inpatient mental health unit, adult day services and hyperbaric oxygen treatment for wound care. Other services of interest include inpatient substance abuse program, Advocate for Young Hearts Program (EKG screenings for teens), Heartcaring Initiative, weight-loss and diabetes initiatives, substance abuse detox facilities, community

St. Joseph Medical Center Community Health-Needs Assessment

wellness screenings, bariatric support group, heart health education events, and women's imaging services for breast cancer.

Community Health Care Clinic

Access to Health Services

The Community Health Care Clinic continues to be the local provider solely dedicated to provide primary care, prescription medications and specialty care to the uninsured and underinsured of McLean County.

OSF St. Joseph Medical Center

Obesity, Addiction/Substance Abuse, Mental Health, Healthy Behaviors, Access to Health Services, Respiratory Issues, Heart Disease, Cancer, Diabetes, Community Health Misperceptions, Women's Health

OSF St. Joseph Medical Center is a 149-licensed bed, not for profit, acute care, and Level II Trauma Center facility. OSF St. Joseph Medical Center offers complete acute inpatient care, occupational medicine and health services, wellness, prevention, and diagnostic services, a full range of outpatient and rehabilitative services, cardiac surgery and rehabilitation, and three PromptCare sites for the treatment of minor illnesses and injuries. Specific centers of interest include weight-loss and diabetes initiatives, the OSF SJMC Weight Management Center, the OSF Center for Healthy Lifestyles, a grief support group through OSF Homecare Services, Cardiac Rehabilitation services, community wellness screenings, the 8th grade career expo at the Interstate Center, the Joslin Diabetes Center, heart health education events, and women's imaging services for breast cancer.

Table 10.2 illustrates the relationships between the community resources and the 12 summary areas identified in section 10.1. Assessment of these relationships was performed to identify potential gaps in coverage as the collaborative team prioritized health-related issues in the community.

St. Joseph Medical Center Community Health-Needs Assessment

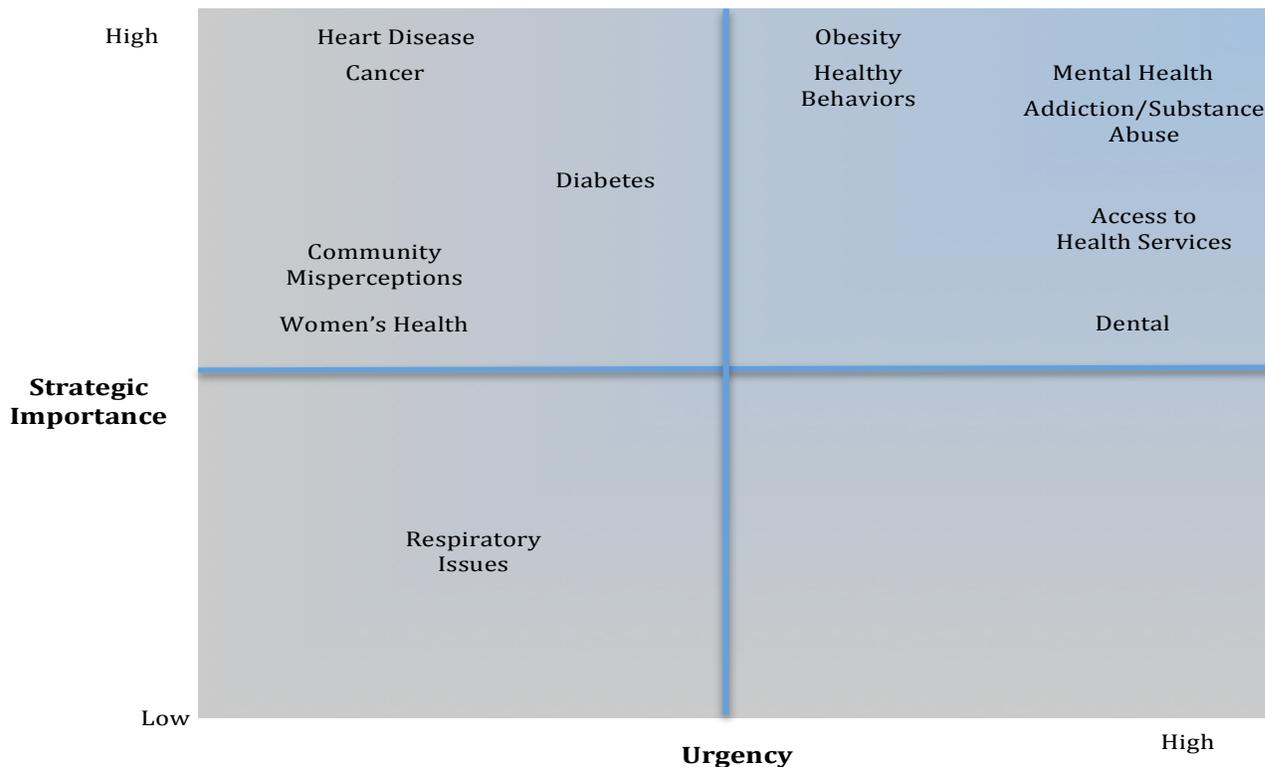
Table 10.2 Relationship between Community Resources and Community Needs

	Organization Name	Obesity	Addiction/ Substance Abuse	Mental Health	Healthy Behaviors/ Nutrition	Access to Health Services	Respiratory Issues	Heart Disease	Cancer	Diabetes	Community Health Misperceptions	Dental	Women's Health
Recreational Facilities (4)	McLean County Parks and Recreation	X			X			X					
	Four Seasons Association	X			X			X					
	Bloomington-Normal YMCA	X			X			X					X
Health Departments (2)	McLean County Health Department	X	X	X	X	X	X	X	X	X	X	X	X
Community Agencies (31)	Agape Counseling			X									
	Alcoholics Anonymous/Al-Anon/Alateen		X									X	
	America's Promise School Project											X	
	American Academy of Pediatrics			X		X						X	
	Bridge to Healthy Smiles Program											X	
	Catholic Charities			X		X							
	Chestnut Health Systems		X			X							
	Collaborative Solutions Institute			X									
	Community Cancer Center							X					
	Community Diabetes Support Group									X			
	Depression and Bipolar Support Alliance			X									
	Emotions Anonymous			X									
	Employee Wellness Best Practices Group	X			X								
	Heartland Head Start				X							X	
	Hearland Healthcare Coalition									X			
	Illinois Alliance to Prevent Obesity	X			X								
	John M Scott Health Care Commission			X		X							
	McLean County Center for Human Services		X	X									
	McLean County Wellness Coalition	X			X								
	Mental Health America of McLean County			X									
	MyPE Program at ISU	X			X								
	National Alliance for the Mentally Ill			X									
	Oxford House		X										
	PATH 211			X									
	Project Oz		X	X									
	Say It Out Loud			X									
	Seniors for Healthy Living					X							
	Teaching Garden				X								
	United Way of McLean County					X					X		
	Various private practices						X	X				X	
	Western Avenue Community Center				X								
Hospitals/Clinics (3)	Advocate BroMenn Medical Center	X	X	X	X	X	X	X	X	X	X		X
	Community Health Care Clinic					X							
	OSF Saint Joseph Medical Center	X	X	X	X	X	X	X	X	X	X		X

10.3 Prioritization of Community Health-Related Issues

In order to prioritize the previously identified dimensions, the collaborative team considered health needs based on: (1) short-term urgency – issues that need immediate attention; and (2) long-term strategic importance – issues that will have the most significant impact on the future health of the community. Additional considerations included the magnitude of the issues (e.g., what percentage of the population was impacted by the issue), growth rate or projected trend of the issue, magnitude to the community, existing community resources, and the potential to make a significant impact to the community. Using these criteria, the collaborative team prioritized the previously identified health issues. Results can be seen in Figure 10.3.

Figure 10.3 Importance/Urgency Matrix for Community Health Needs



In conclusion, the collaborative identified the six most critical health-related issues in McLean County as:

MENTAL HEALTH

Approximately 23% of residents in McLean County reported they had experienced 1-7 days with poor mental health per month between 2007 and 2009. Approximately 11% of residents in McLean County reported they had experienced 8-30 days with poor mental health per month between 2007 and 2009. For both segments of residents (those experiencing 1-7 days and 8-30 days with poor mental health per month), each was below the state average for the same time frame.

RISKY BEHAVIORS-SUBSTANCE ABUSE

Risky behaviors are defined as activities that include addiction, chemical dependency and risky sexual behaviors. Note that youth substance usage in McLean County exceeds the State of Illinois averages for 12th graders in terms of alcohol usage.

St. Joseph Medical Center Community Health-Needs Assessment

OBESITY

Research strongly suggests that obesity is a significant problem facing youth and adults nationally, in Illinois, and within the McLean County region. In terms of obesity, the McLean County area as a whole is higher than the state average and growing rapidly. There was a 13% increase in the growth of McLean County residents reporting they were overweight between 2006 (35.0%) and 2009 (39.5%). Considering that Illinois has the 6th highest obesity rate in the U.S., this is an important issue.

HEALTHY BEHAVIORS

Only 17% of the McLean County population engages in exercise 5 or more times per week. Note that residents with higher education and higher income are more likely to engage in exercise. With regard to healthy eating, only 7% of the population consumes the minimum recommended servings of fruits/vegetables in a day. Those that are more likely to have healthy eating habits include women, older people, people with higher education and more income. Homeless people are less likely to exhibit healthy eating habits. Finally, smoking is on the decline, however, less educated people, men, younger people, non-White residents, those with lower income and homeless people are still more likely to smoke.

ACCESS TO HEALTH SERVICES

Results from survey respondents living in poverty indicated that access to healthcare is limited. This includes medical, dental and mental healthcare. Poverty is a key factor, as 24% of people living in poverty in McLean County consider the Emergency Department their primary source of health care. Furthermore, 44% of people in poverty were unable to obtain medical care when they needed it in the past year. Results also suggest a strong correlation between ethnicity and one's ability to obtain medical care, as survey data suggest individuals who identify as Black are more likely to use the emergency department, as well as young men, low education and homelessness. With regard to prescription drugs, 46% of individuals living in poverty in McLean County were unable to fill a prescription in the past year because they lacked health care coverage. With regard to dental care, 44% of individuals living in poverty in McLean County needed dental care and were unable to obtain it last year and 25% of individuals living in poverty in McLean County needed counseling and were unable to obtain it in the last year. "Affordability" was cited as the leading impediment to various types of health care.

DENTAL

While significant research exists linking dental care to numerous diseases, including heart disease, only 51% of the aggregate McLean County population had a checkup in the last year. Specifically, men, younger respondents, non-White ethnicity, less educated people, lower household income and the homeless were less likely to visit a dentist.

St. Joseph Medical Center Community Health-Needs Assessment

Note that while other factors, such as community misperceptions, heart disease, women's health, respiratory issues and cancer are all important attributes, in terms of importance and urgency, the collaborative team rated the other six categories as more important. As a validity check, note that the findings from this study are similar with the health assessments completed by the County Health Department.

St. Joseph Medical Center Community Health-Needs Assessment

APPENDIX**COMMUNITY HEALTH-NEEDS ASSESSMENT SURVEY****INSTRUCTIONS**

We want to know how you view our community, so we are inviting you to participate in a research study for community health-needs. Your opinions are important. This questionnaire will take approximately 10 minutes to complete. All of your individual responses are confidential. We will use results of the surveys to improve our understanding of health needs in the community.

Please read each question and mark the response that best represents your views of community needs.

I. HEALTH PROBLEMS IN THE COMMUNITY

Please identify the three **(3) most important health problems** in the community.

- | | |
|--|--|
| <input type="checkbox"/> Aging issues, such as Alzheimer's disease, hearing loss or arthritis | <input type="checkbox"/> Injuries |
| <input type="checkbox"/> Birth defects | <input type="checkbox"/> Kidney disease |
| <input type="checkbox"/> Cancer | <input type="checkbox"/> Lead poisoning |
| <input type="checkbox"/> Chronic pain | <input type="checkbox"/> Liver disease |
| <input type="checkbox"/> Dental health | <input type="checkbox"/> Lung disease (asthma) |
| <input type="checkbox"/> Diabetes | <input type="checkbox"/> Mental health issues such as depression, anger, etc |
| <input type="checkbox"/> Heart disease/heart attack | <input type="checkbox"/> Obesity/overweight |
| <input type="checkbox"/> HIV/AIDS | <input type="checkbox"/> Sexually transmitted infections |
| <input type="checkbox"/> Infant death | <input type="checkbox"/> Stroke |
| <input type="checkbox"/> Infectious/contagious diseases such as flu, pneumonia, food poisoning | <input type="checkbox"/> Teenage pregnancy |
| | <input type="checkbox"/> Other _____ |

II. UNHEALTHY BEHAVIORS

Please identify the three **(3) most important unhealthy behaviors** in the community.

- | | |
|---|---|
| <input type="checkbox"/> Angry behavior/violence | <input type="checkbox"/> Not able to get a routine checkup |
| <input type="checkbox"/> Alcohol abuse | <input type="checkbox"/> Poor eating habits |
| <input type="checkbox"/> Child abuse | <input type="checkbox"/> Reckless driving |
| <input type="checkbox"/> Domestic violence | <input type="checkbox"/> Smoking |
| <input type="checkbox"/> Don't use seatbelts | <input type="checkbox"/> Suicide |
| <input type="checkbox"/> Drug abuse | <input type="checkbox"/> Multiple partners without a condom |
| <input type="checkbox"/> Elder abuse (physical, emotional, financial, sexual) | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Lack of exercise | |

III. ISSUES WITH QUALITY OF LIFE

Please identify the three **(3) most important factors that impact your quality of life** in the community.

- | | |
|---|--|
| <input type="checkbox"/> Access to health services | <input type="checkbox"/> Good public transportation |
| <input type="checkbox"/> Affordable housing | <input type="checkbox"/> Healthy food choices |
| <input type="checkbox"/> Availability of child care | <input type="checkbox"/> Less poverty |
| <input type="checkbox"/> Better school attendance | <input type="checkbox"/> Safer neighborhoods/schools |
| <input type="checkbox"/> Job opportunities | <input type="checkbox"/> Other _____ |

St. Joseph Medical Center Community Health-Needs Assessment

IV. ACCESS TO HEALTH CARE

The following questions ask about your own personal health and health choices. Remember, this survey will not be linked to you in any way.

1. When you get sick, where do you go? Please choose only one.

- Clinic/Doctor's office Health Department Urgent Care Center
 Emergency Department I don't seek medical attention Other _____

2. How long has it been since you have been to the doctor to get a checkup when you were well (not because you were already sick)?

- Within the last year 1-2 years ago 3-5 years ago
 5 or more years ago I have never been to a doctor for a checkup.

3. In the last year, was there a time when you needed medical care but were not able to get it?

- No (please go to question 5) Yes (please go to the next question)

4. If you just answered "yes" to question 3, why weren't you able to get medical care? Choose all that apply.

- I didn't have health insurance. The doctor or clinic refused to take my insurance or Medicaid.
 I couldn't afford to pay my co-pay or deductible. I didn't know how to find a doctor.
 I didn't have any way to get to the doctor. Too long to wait for appointment.
 Fear
 Other _____

5. In the last year, was there a time when you needed prescription medicine but were not able to get it?

- No (please go to question 7) Yes (please go to the next question)

6. If you just answered "yes" to question 5, why weren't you able to get prescription medication? Choose all that apply.

- I didn't have health insurance. The pharmacy refused to take my insurance or Medicaid.
 I couldn't afford to pay my co-pay or deductible. I didn't have any way to get to the pharmacy.
 I didn't know how to find a pharmacy. Other _____

7. About how long has it been since you have been to the dentist to get a checkup (not for an emergency)?

- Within the last year 1-2 years ago 3-5 years ago
 5 or more years ago I have never been to a dentist for a checkup.

8. In the last year, was there a time when you needed dental care but could not get it?

- No (please go to question 10) Yes (please go to the next question)

9. If you just answered "yes" to question 8, why weren't you able to get dental care? Choose all that apply.

- I didn't have dental insurance. The dentist refused to take my insurance or Medicaid.
 I couldn't afford to pay my co-pay or deductible. I didn't know how to find a dentist.
 I didn't have any way to get to the dentist. Too long to wait for appointment.
 Fear.
 Other _____

St. Joseph Medical Center Community Health-Needs Assessment

10. In the last year, was there a time when you needed counseling but could not get it?

- No (please go to question 12) Yes (please go to the next question)

11. If you just answered "yes" to question 10, why weren't you able to get counseling? Choose all that apply.

- I didn't have insurance. The counselor refused to take my insurance or Medicaid.
 I couldn't afford to pay my co-pay or deductible. I didn't know how to find a counselor.
 I didn't have any way to get to a counselor. Too long to wait for appointment.
 Fear. Other _____
 Embarrassment.

12. In the last week how many times did you participate in deliberate exercise, (such as jogging, walking, golf, weight-lifting, fitness classes) that lasted for at least 30 minutes or more?

- None 1 - 2 3 - 5 More than 5

13. If you answered "none" to the last question, why **didn't** you exercise in the past week? Choose all that apply.

- I don't have any time to exercise. I don't like to exercise.
 It is not important to me. I can't afford the fees to exercise.
 I don't have access to an exercise facility. I am too tired.
 I don't have child care while I exercise. I have a physical disability.
 Other _____

14. On a typical day, how many servings of fruits and/or vegetables do you have?

- None 1 - 2 3 - 5 More than 5

15. On a typical day, how many cigarettes do you smoke?

- None 1 - 4 5 - 8 9 - 12 More than 12

16. Where do you get most of your medical information (*check only one*)

- Doctor Friends/family Internet Pharmacy Other _____

17. Do you have a personal physician? No Yes

18. Overall, my physical health is: Good Average Poor

19. Overall, my mental health is: Good Average Poor

V. BACKGROUND INFORMATION

What county do you live in?

- Livingston McLean Other

What type of insurance do you have?

- Medicare Medicaid Private/commercial None

What is your gender? Male Female

