

## Executive Report

# 2015 Community Health Needs Assessment

**Edward Hospital & Health Services &  
Linden Oaks Hospital  
DuPage/Will Counties, Illinois**

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*Prepared for:*

**METROPOLITAN CHICAGO HEALTHCARE COUNCIL (MCHC)**

*On Behalf of Edward Hospital & Health Services & Linden Oaks Hospital*

*By:*

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# Introduction



**Professional Research Consultants, Inc.**

## Project Overview

### Project Goals

This Community Health Needs Assessment, a follow-up to a similar study conducted in 2012, is a systematic, data-driven approach to determining the health status, behaviors and needs of residents in the service area of Edward Hospital & Health Services. Subsequently, this information may be used to inform decisions and guide efforts to improve community health and wellness.

A Community Health Needs Assessment provides information so that communities may identify issues of greatest concern and decide to commit resources to those areas, thereby making the greatest possible impact on community health status. This Community Health Needs Assessment will serve as a tool toward reaching three basic goals:

- **To improve residents' health status, increase their life spans, and elevate their overall quality of life.** A healthy community is not only one where its residents suffer little from physical and mental illness, but also one where its residents enjoy a high quality of life.
- **To reduce the health disparities among residents.** By gathering demographic information along with health status and behavior data, it will be possible to identify population segments that are most at-risk for various diseases and injuries. Intervention plans aimed at targeting these individuals may then be developed to combat some of the socio-economic factors which have historically had a negative impact on residents' health.
- **To increase accessibility to preventive services for all community residents.** More accessible preventive services will prove beneficial in accomplishing the first goal (improving health status, increasing life spans, and elevating the quality of life), as well as lowering the costs associated with caring for late-stage diseases resulting from a lack of preventive care.

This assessment was conducted by Professional Research Consultants, Inc. (PRC). PRC is a nationally recognized healthcare consulting firm with extensive experience conducting Community Health Needs Assessments such as this in hundreds of communities across the United States since 1994.



## Sponsorship

This study has been facilitated by the Metropolitan Chicago Healthcare Council (MCHC) on behalf of participating member hospitals and health systems. These hospitals and **health systems** include: **Alexian Brothers Health System/Amita Health** (Alexian Brothers Behavioral Health Hospital, Alexian Brothers Medical Center, St. Alexius Medical Center); **Amita Health** (Adventist Bolingbrook Hospital, Adventist GlenOaks Hospital, Adventist Hinsdale Hospital, Adventist LaGrange Memorial Hospital); **Edward–Elmhurst Healthcare** (Edward Hospital & Health Services, Elmhurst Memorial Hospital); **Franciscan Alliance** (Franciscan St. James Health); **Ingalls Health System** (Ingalls Memorial Hospital); Little Company of Mary Hospital and Health Care Centers; Loretto Hospital; **Northwest Community Healthcare** (Northwest Community Hospital, Northwestern Memorial Hospital); **Northwestern Medicine** (Central DuPage Hospital, Northwestern Lake Forest Hospital); Palos Community Hospital; **Rush System for Health** (Rush Oak Park Hospital, Rush University Medical Center); Saint Anthony Hospital; St. Bernard Hospital and Health Care Center; Swedish Covenant Hospital; Thorek Memorial Hospital; and the University of Chicago Medical Center.

## Methodology

This assessment incorporates data from both quantitative and qualitative sources. Quantitative data input includes primary research (the PRC Community Health Survey) and secondary research (vital statistics and other existing health-related data); these quantitative components allow for trending and comparison to benchmark data at the state and national levels. Qualitative data input includes primary research gathered through an Online Key Informant Survey.

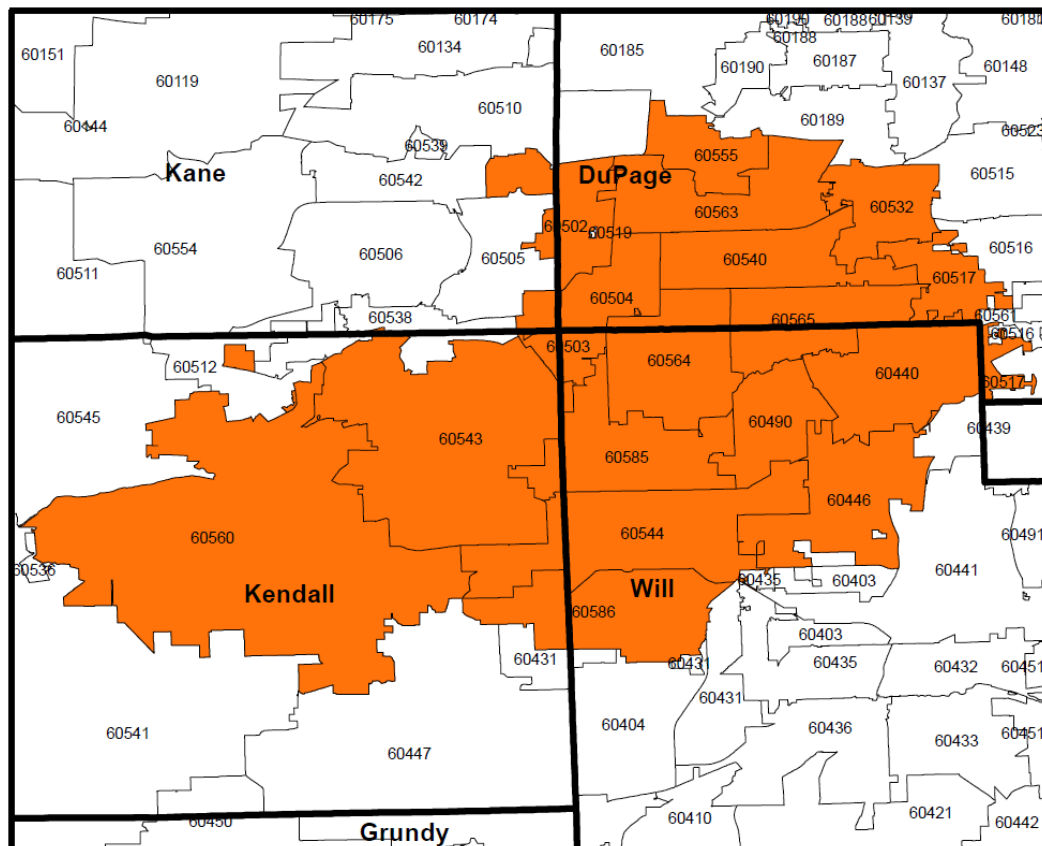
### PRC Community Health Survey

#### *Survey Instrument*

The survey instrument used for this study is based largely on the Centers for Disease Control and Prevention (CDC) Behavioral Risk Factor Surveillance System (BRFSS), as well as various other public health surveys and customized questions addressing gaps in indicator data relative to health promotion and disease prevention objectives and other recognized health issues. The final survey instrument was developed by the Metropolitan Chicago Healthcare Council and PRC, with input from participating member hospitals, and is similar to the previous surveys used in the region, allowing for data trending.

#### *Community Defined for This Assessment*

The study area for the survey effort (referred to as the “Edward Hospital Service Area” or “EHHS Service Area” in this report) includes the service area of Edward Hospital & Health Services, defined at the ZIP Code level. This definition is illustrated in the following map.



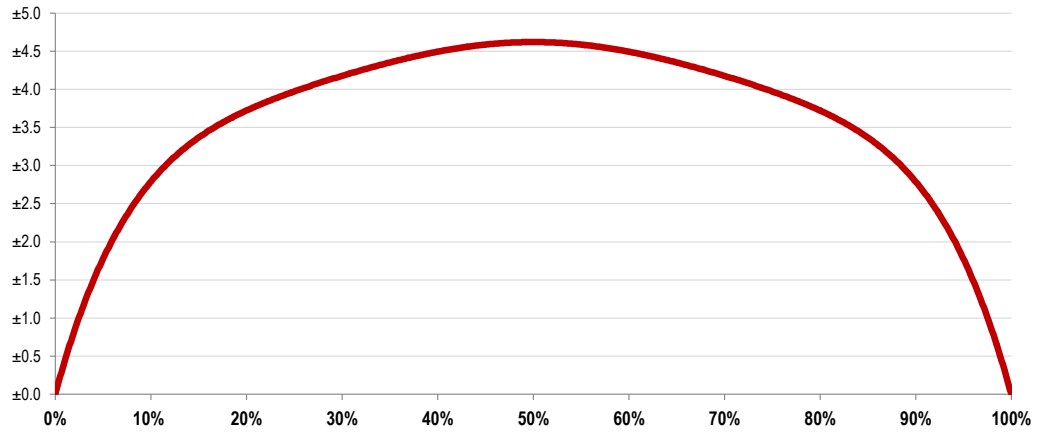
### **Sample Approach & Design**

A precise and carefully executed methodology is critical in asserting the validity of the results gathered in the *PRC-MCHC Community Health Survey*. Thus, to ensure the best representation of the population surveyed, a telephone interview methodology — one that incorporates both landline and cell phone interviews — was employed. The primary advantages of telephone interviewing are timeliness, efficiency, and random-selection capabilities.

The sample design used for this effort was designed to provide meaningful results for the various ZIP Code–configured service areas of the participating hospitals. To achieve this, sampling levels were determined so as to make the most efficient use of resources while yielding meaningful samples for the various geographies of interest. Interviews were administered among a random sample of households. Once the interviews were completed, these were weighted in proportion to the actual population distribution at the ZIP Code level so as to appropriately represent the Edward Hospital Service Area as a whole. All administration of the surveys, data collection and data analysis was conducted by Professional Research Consultants, Inc. (PRC).

For statistical purposes, the maximum rate of error associated with a sample size of 452 respondents is  $\pm 4.6\%$  at the 95 percent level of confidence.

## Expected Error Ranges for a Sample of 452 Respondents at the 95 Percent Level of Confidence



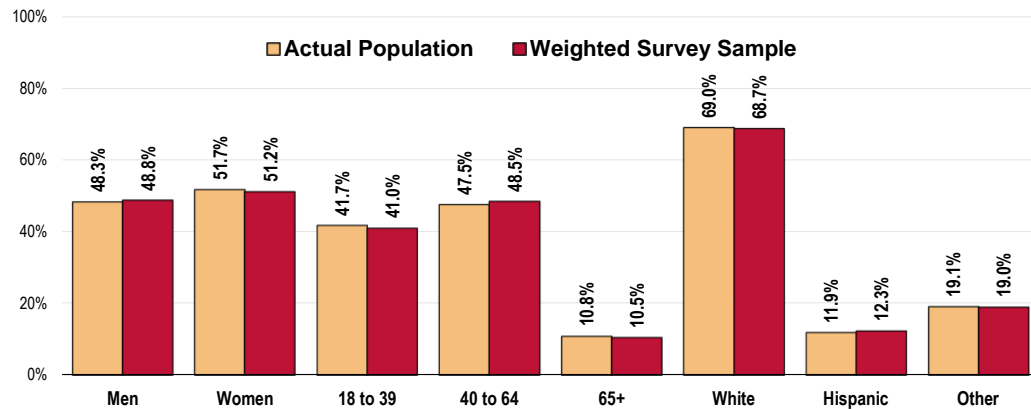
- Note:
- The "response rate" (the percentage of a population giving a particular response) determines the error rate associated with that response. A "95 percent level of confidence" indicates that responses would fall within the expected error range on 95 out of 100 trials.
- Examples:
- If 10% of the sample of 452 respondents answered a certain question with a "yes," it can be asserted that between 7.2% and 12.8% (10% ± 2.8%) of the total population would offer this response.
  - If 50% of respondents said "yes," one could be certain with a 95 percent level of confidence that between 45.4% and 54.6% (50% ± 4.6%) of the total population would respond "yes" if asked this question.

### Sample Characteristics

To accurately represent the population studied, PRC strives to minimize bias through application of a proven telephone methodology and random-selection techniques. And, while this random sampling of the population produces a highly representative sample, it is a common and preferred practice to "weight" the raw data to improve this representativeness even further. This is accomplished by adjusting the results of a random sample to match the geographic distribution and demographic characteristics of the population surveyed (poststratification), so as to eliminate any naturally occurring bias. Specifically, once the raw data are gathered, respondents are examined by key demographic characteristics (namely gender, age, race, ethnicity, and poverty status) and a statistical application package applies weighting variables that produce a sample which more closely matches the population for these characteristics. Thus, while the integrity of each individual's responses is maintained, one respondent's responses may contribute to the whole the same weight as, for example, 1.1 respondents. Another respondent, whose demographic characteristics may have been slightly oversampled, may contribute the same weight as 0.9 respondents.

The following chart outlines the characteristics of the Edward Hospital Service Area sample for key demographic variables, compared to actual population characteristics revealed in census data. [Note that the sample consisted solely of area residents age 18 and older; data on children were given by proxy by the person most responsible for that child's healthcare needs, and these children are not represented demographically in this chart.]

## Population & Survey Sample Characteristics (EHHS Service Area, 2015)



Sources:   
 • Census 2010, Summary File 3 (SF 3). US Census Bureau.   
 • 2015 PRC Community Health Survey, Professional Research Consultants, Inc.

Further note that the poverty descriptions used in this report are based on administrative poverty thresholds determined by the US Department of Health & Human Services. These guidelines define poverty status by household income level and number of persons in the household (e.g., the 2014 guidelines place the poverty threshold for a family of four at \$23,850 annual household income or lower).

The sample design and the quality control procedures used in the data collection ensure that the sample is representative. Thus, the findings may be generalized to the total population of community members in the defined area with a high degree of confidence.

### Online Key Informant Survey

To solicit input from key informants, those individuals who have a broad interest in the health of the community, an Online Key Informant Survey was also implemented as part of this process. A list of recommended participants was provided by Metropolitan Chicago Healthcare Council; this list included names and contact information for physicians, public health representatives, other health professionals, social service providers, and a variety of other community leaders. Potential participants were chosen because of their ability to identify primary concerns of the populations with whom they work, as well as of the community overall.

Key informants were contacted by email, introducing the purpose of the survey and providing a link to take the survey online; reminder emails were sent as needed to increase participation. In all, 10 community stakeholders took part in the Online Key Informant Survey, as outlined in the following chart:

Online Key Informant Survey Participation		
Key Informant Type	Number Invited	Number Participating
Community/Business Leader	26	5
Other Health Provider	1	0
Physician	1	0
Public Health Expert	11	1
Social Service Representative	20	4

Final participation included representatives of the organizations outlined below.

- DuPage County Health Department
- DuPage Federation on Human Services Reform
- Elmhurst CUSD 205
- Metropolitan Chicago Healthcare Council
- Naperville School District 203
- People's Resource Center
- Village of Addison

Through this process, input was gathered from several individuals whose organizations work with low-income, minority populations (*including African-American, Asian, autistic children, the elderly, Hispanic, Indian, low-income residents, multilingual, non-English speaking*) or other medically underserved populations (*including the disabled, elderly, homeless, LGBT community, the mentally ill, non-English speaking adults, undocumented, uninsured/underinsured, youth*).

In the online survey, key informants were asked to rate the degree to which various health issues are a problem in their own community. Follow-up questions asked them to describe why they identify problem areas as such, and how these might be better addressed. Results of their ratings, as well as their verbatim comments, are included throughout this report as they relate to the various other data presented.

*NOTE: These findings represent qualitative rather than quantitative data. The Online Key Informant Survey was designed to gather input from participants regarding their opinions and perceptions of the health of the residents in the area. Thus, these findings are based on perceptions, not facts.*

## Public Health, Vital Statistics & Other Data

A variety of existing (secondary) data sources was consulted to complement the research quality of this Community Health Needs Assessment. Data for the Edward Hospital Service Area were obtained from the following sources (specific citations are included with the graphs throughout this report):

- Center for Applied Research and Environmental Systems (CARES)
- Centers for Disease Control & Prevention, Office of Infectious Disease, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
- Centers for Disease Control & Prevention, Office of Public Health Science Services, Center for Surveillance, Epidemiology and Laboratory Services, Division of Health Informatics and Surveillance (DHIS)
- Centers for Disease Control & Prevention, Office of Public Health Science Services, National Center for Health Statistics
- Community Commons
- ESRI ArcGIS Map Gallery
- Illinois Department of Public Health
- Illinois State Police
- National Cancer Institute, State Cancer Profiles
- OpenStreetMap (OSM)
- US Census Bureau, American Community Survey
- US Census Bureau, County Business Patterns
- US Census Bureau, Decennial Census
- US Department of Agriculture, Economic Research Service
- US Department of Health & Human Services
- US Department of Health & Human Services, Health Resources and Services Administration (HRSA)
- US Department of Justice, Federal Bureau of Investigation
- US Department of Labor, Bureau of Labor Statistics

Note that secondary data reflect county-level (DuPage and Will counties) data.

## Benchmark Data

### *Trending*

Because this study is part of a larger, regional assessment, trending for survey-derived indicators is available based on past CHNAs conducted for the Metropolitan Chicago Healthcare Council (MCHC) in 2009 and 2012. Trending data, as revealed by comparison to prior survey results, are provided throughout this report whenever available. Historical data for secondary data indicators are also included for the purposes of trending.

### *Illinois Risk Factor Data*

Statewide risk factor data are provided where available as an additional benchmark against which to compare local survey findings; these data are reported in the most recent *BRFSS (Behavioral Risk Factor Surveillance System) Prevalence and Trend Data* published by the Centers for Disease Control and Prevention and the US Department of Health & Human Services. State-level vital statistics are also provided for comparison of secondary data indicators.

### *Nationwide Risk Factor Data*

Nationwide risk factor data, which are also provided in comparison charts, are taken from the *2013 PRC National Health Survey*; the methodological approach for the national study is identical to that employed in this assessment, and these data may be generalized to the US population with a high degree of confidence. National-level vital statistics are also provided for comparison of secondary data indicators.

### *Healthy People 2020*

Healthy People provides science-based, 10-year national objectives for improving the health of all Americans. The Healthy People initiative is grounded in the principle that setting national objectives and monitoring progress can motivate action. For three decades, Healthy People has established benchmarks and monitored progress over time in order to:

- Encourage collaborations across sectors.
- Guide individuals toward making informed health decisions.
- Measure the impact of prevention activities.



Healthy People 2020 is the product of an extensive stakeholder feedback process that is unparalleled in government and health. It integrates input from public health and prevention experts, a wide range of federal, state and local government officials, a consortium of more than 2,000 organizations, and perhaps most importantly, the public. More than 8,000 comments were considered in drafting a comprehensive set of Healthy People 2020 objectives.

### **Determining Significance**

Differences noted in this report represent those determined to be significant. For survey-derived indicators (which are subject to sampling error), statistical significance is determined based on confidence intervals (at the 95 percent confidence level) using question-specific samples and response rates. For secondary data indicators (which do not carry sampling error, but might be subject to reporting error), "significance," for the purpose of this report, is determined by a 5% variation from the comparative measure.

### Information Gaps

While this assessment is quite comprehensive, it cannot measure all possible aspects of health in the community, nor can it adequately represent all possible populations of interest. It must be recognized that these information gaps might in some ways limit the ability to assess all of the community's health needs.

For example, certain population groups — such as the homeless, institutionalized persons, or those who only speak a language other than English or Spanish — are not represented in the survey data. Other population groups — for example, pregnant women, lesbian/gay/bisexual/transgender residents, undocumented residents, and members of certain racial/ethnic or immigrant groups — might not be identifiable or might not be represented in numbers sufficient for independent analyses.

In terms of content, this assessment was designed to provide a comprehensive and broad picture of the health of the overall community. However, there are certainly a great number of medical conditions that are not specifically addressed.



## IRS Form 990, Schedule H Compliance

For non-profit hospitals, a Community Health Needs Assessment (CHNA) also serves to satisfy certain requirements of tax reporting, pursuant to provisions of the Patient Protection & Affordable Care Act of 2010. To understand which elements of this report relate to those requested as part of hospitals' reporting on IRS Form 990 Schedule H, the following table cross-references related sections.

IRS Form 990, Schedule H	See Report Page(s)
<b>Part V Section B Line 1a</b> <i>A definition of the community served by the hospital facility</i>	9
<b>Part V Section B Line 1b</b> <i>Demographics of the community</i>	41
<b>Part V Section B Line 1c</b> <i>Existing health care facilities and resources within the community that are available to respond to the health needs of the community</i>	264
<b>Part V Section B Line 1d</b> <i>How data was obtained</i>	9
<b>Part V Section B Line 1f</b> <i>Primary and chronic disease needs and other health issues of uninsured persons, low-income persons, and minority groups</i>	Addressed Throughout
<b>Part V Section B Line 1g</b> <i>The process for identifying and prioritizing community health needs and services to meet the community health needs</i>	Pending
<b>Part V Section B Line 1h</b> <i>The process for consulting with persons representing the community's interests</i>	12
<b>Part V Section B Line 1i</b> <i>Information gaps that limit the hospital facility's ability to assess the community's health needs</i>	15

## Summary of Findings

### Significant Health Needs of the Community

The following “areas of opportunity” represent the significant health needs of the community, based on the information gathered through this Community Health Needs Assessment and the guidelines set forth in Healthy People 2020. From these data, opportunities for health improvement exist in the area with regard to the following health issues (see also the summary tables presented in the following section).

Areas of Opportunity Identified Through This Assessment	
<b>Access to Healthcare Services</b>	<ul style="list-style-type: none"> <li>• Barriers to Access               <ul style="list-style-type: none"> <li>○ Appointment Availability</li> <li>○ Finding a Physician</li> </ul> </li> <li>• <i>Access to Healthcare ranked as a top concern in the Online Key Informant Survey.</i></li> </ul>
<b>Cancer</b>	<ul style="list-style-type: none"> <li>• Cancer Incidence               <ul style="list-style-type: none"> <li>○ Including Prostate Cancer, Female Breast Cancer,</li> </ul> </li> <li>• Colorectal Cancer Screening</li> </ul>
<b>Chronic Kidney Disease</b>	<ul style="list-style-type: none"> <li>• Kidney Disease Deaths</li> </ul>
<b>Diabetes</b>	<ul style="list-style-type: none"> <li>• Prevalence of Borderline/Pre-Diabetes</li> <li>• <i>Diabetes ranked as a top concern in the Online Key Informant Survey.</i></li> </ul>
<b>Family Planning</b>	<ul style="list-style-type: none"> <li>• <i>Family Planning ranked as a top concern in the Online Key Informant Survey.</i></li> </ul>
<b>Heart Disease &amp; Stroke</b>	<ul style="list-style-type: none"> <li>• High Blood Pressure Prevalence</li> <li>• <i>Heart Disease &amp; Stroke ranked as a top concern in the Online Key Informant Survey.</i></li> </ul>
<b>HIV/AIDS</b>	<ul style="list-style-type: none"> <li>• HIV/AIDS Deaths</li> </ul>
<b>Injury &amp; Violence</b>	<ul style="list-style-type: none"> <li>• Bicycle Helmet Usage [Children]</li> <li>• Firearm-Related Deaths</li> <li>• Perceive Neighborhood to be “Not At All Safe” from Crime</li> </ul>
<b>Mental Health</b>	<ul style="list-style-type: none"> <li>• “Diagnosed Depression</li> <li>• Symptoms of Chronic Depression</li> <li>• Suicide Deaths</li> <li>• <i>Mental Health ranked as a top concern in the Online Key Informant Survey.</i></li> </ul>
<b>Nutrition, Physical Activity &amp; Weight</b>	<ul style="list-style-type: none"> <li>• Low Food Access</li> <li>• Overweight &amp; Obesity [Adults]</li> <li>• <i>Nutrition, Physical Activity &amp; Weight ranked as a top concern in the Online Key Informant Survey.</i></li> </ul>
<b>Potentially Disabling Conditions</b>	<ul style="list-style-type: none"> <li>• Activity Limitations</li> <li>• Arthritis Prevalence (50+)</li> <li>• Sciatica/Back Pain Prevalence</li> <li>• Deafness/Hearing Trouble</li> </ul>
<b>Respiratory Diseases</b>	<ul style="list-style-type: none"> <li>• Chronic Obstructive Pulmonary Disease (COPD) Prevalence</li> </ul>

**Areas of Opportunity Identified Through This Assessment (continued)****Sexually Transmitted Diseases**

- Multiple Sexual Partners
- Condom Use

**Substance Abuse**

- Cirrhosis/Liver Disease Deaths
- Liver Disease Prevalence
- Overall Alcohol Use
- Drug-Induced Deaths
- Illicit Drug Use
- Seeking Help for Alcohol/Drug Issues
- *Substance Abuse ranked as a top concern in the Online Key Informant Survey.*

## Summary Tables: Comparisons With Benchmark Data

The following tables provide an overview of indicators in the Edward Hospital Service Area, including comparisons among the individual communities, as well as trend data. These data are grouped to correspond with the Focus Areas presented in Healthy People 2020.

### *Reading the Summary Tables*

■ In the following charts, Edward Hospital Service Area results are shown in the larger, blue column.























■ The columns to the right of the service area column provide trending, as well as comparisons between local data and any available state and national findings, and Healthy People 2020 targets. Symbols indicate whether the Edward Hospital Service Area compares favorably (☀️), unfavorably (☹️), or comparably (☁️) to these external data.












Note that blank table cells signify that data are not available or are not reliable for that area and/or for that indicator.




































#### **TREND SUMMARY** (Current vs. Baseline Data)































**Survey Data Indicators:** Trends for survey-derived indicators represent significant changes since 2012. Note that survey data reflect the ZIP Code-defined EHHS Service Area.














**Other (Secondary) Data Indicators:** Trends for other indicators (e.g., public health data) represent point-to-point changes between the most current reporting period and the earliest presented in this report (typically representing the span of roughly a decade). Note that secondary data reflect combined DuPage/Will County data.
























Social Determinants	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Linguistically Isolated Population (Percent)	4.5	 7.6	 5.1	 4.8		
Population in Poverty (Percent)	7.4	 14.8	 14.1	 15.4		
Population Below 200% FPL (Percent)	19.4	 32.3	 31.5	 34.2		
Children Below 200% FPL (Percent)	24.6	 42.6	 40.8	 43.8		
No High School Diploma (Age 25+, Percent)	8.6	 14.1	 12.7	 14.0		
Unemployment Rate (Age 16+, Percent)	5.4	 5.9	 5.6	 5.3	 5.5	
			 better	 similar	 worse	

Overall Health	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% "Fair/Poor" Physical Health	11.6	 16.6	 16.9	 15.3	 11.4	
% Activity Limitations	22.0	 21.4	 17.0	 21.5	 14.9	
			 better	 similar	 worse	





































Access to Health Services	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% [Age 18-64] Lack Health Insurance	1.1	 8.1	 19.4	 15.1	 0.0	 7.3
% [Insured] Went Without Coverage in Past Year	1.3	 7.1		 8.1		 6.0
% Difficulty Accessing Healthcare in Past Year (Composite)	37.7	 37.6		 39.9		 33.0
% Inconvenient Hrs Prevented Dr Visit in Past Year	19.1	 18.6		 15.4		 15.9
% Cost Prevented Getting Prescription in Past Year	7.8	 12.6		 15.8		 12.5
% Cost Prevented Physician Visit in Past Year	12.0	 12.0		 18.2		 10.3
% Difficulty Getting Appointment in Past Year	16.8	 15.1		 17.0		 8.2
% Difficulty Finding Physician in Past Year	12.0	 9.9		 11.0		 4.0
% Transportation Hindered Dr Visit in Past Year	6.2	 8.5		 9.4		 3.4
% Skipped Prescription Doses to Save Costs	12.6	 12.7		 15.3		 8.0
% Difficulty Getting Child's Healthcare in Past Year	1.6	 3.6		 6.0		 0.0



















Access to Health Services (continued)	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Primary Care Doctors per 100,000	98.8	 98.6	 79.0	 74.5		
% [Age 18+] Have a Specific Source of Ongoing Care	80.8	 73.9		 76.3	 95.0	 77.1
% [Age 18-64] Have a Specific Source of Ongoing Care	84.7	 74.4		 75.6	 89.4	 77.6
% [Age 65+] Have a Specific Source of Ongoing Care	70.9	 71.5		 80.0	 100.0	
% Have Had Routine Checkup in Past Year	79.5	 72.7	 66.5	 65.0		 72.8
% Child Has Had Checkup in Past Year	88.5	 91.8		 84.1		 94.0
% Two or More ER Visits in Past Year	6.2	 7.5		 8.9		 7.2
% Rate Local Healthcare "Fair/Poor"	12.3	 13.5		 16.5		 11.3
			 better	 similar	 worse	


















Arthritis, Osteoporosis & Chronic Back Conditions	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% [50+] Arthritis/Rheumatism	41.8	 36.3		 37.3		 29.4
% [50+] Osteoporosis	11.6	 10.0		 13.5	 5.3	 6.6
% Sciatica/Chronic Back Pain	20.3	 18.3		 18.4		 11.6
			 better	 similar	 worse	







Cancer	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Cancer (Age-Adjusted Death Rate)	157.7	 169.2	 174.2	 166.2	 161.4	 178.2
Lung Cancer (Age-Adjusted Death Rate)	41.0		 47.5	 44.7	 45.5	
Prostate Cancer (Age-Adjusted Death Rate)	18.2		 20.5	 19.8	 21.8	
Female Breast Cancer (Age-Adjusted Death Rate)	22.0		 22.8	 21.3	 20.7	
Colorectal Cancer (Age-Adjusted Death Rate)	13.2		 15.9	 14.9	 14.5	
Prostate Cancer Incidence per 100,000	151.6	 156.2	 149.4	 142.3		
Female Breast Cancer Incidence per 100,000	136.4	 129.4	 127.4	 122.7		






















































Cancer (continued)	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Lung Cancer Incidence per 100,000	65.5	 64.8	 70.6	 64.9		
Colorectal Cancer Incidence per 100,000	44.3	 48.1	 48.6	 43.3		
Cervical Cancer Incidence per 100,000	6.4	 9.2	 8.4	 7.8		
% Skin Cancer	6.8	 3.6	 4.6	 6.7	 6.0	
% Cancer (Other Than Skin)	4.2	 5.2	 6.3	 6.1	 6.0	
% [Men 50+] Prostate Exam in Past 2 Years	74.1	 69.2		 75.0		
% [Women 50-74] Mammogram in Past 2 Years	87.3	 79.1	 76.4	 83.6	 81.1	 90.4
% [Women 21-65] Pap Smear in Past 3 Years	84.7	 84.6	 77.3	 83.9	 93.0	 82.4
% [Age 50-75] Colorectal Cancer Screening	67.7	 70.4		 75.1	 70.5	 69.1
			 better	 similar	 worse	










<b>Chronic Kidney Disease</b>		<b>Edward Hospital vs. Benchmarks</b>				
	<b>Edward Hospital</b>	<b>vs. MCHC Region</b>	<b>vs. IL</b>	<b>vs. US</b>	<b>vs. HP2020</b>	<b>TREND</b>
Kidney Disease (Age-Adjusted Death Rate)	<b>14.7</b>	 16.2	 17.1	 13.2		 15.2
% Kidney Disease	<b>2.7</b>	 2.7	 2.4	 3.0		 1.8
			 better	 similar	 worse	
<b>Dementias, Including Alzheimer's Disease</b>		<b>Edward Hospital vs. Benchmarks</b>				
	<b>Edward Hospital</b>	<b>vs. MCHC Region</b>	<b>vs. IL</b>	<b>vs. US</b>	<b>vs. HP2020</b>	<b>TREND</b>
Alzheimer's Disease (Age-Adjusted Death Rate)	<b>18.8</b>	 16.4	 20.0	 24.0		 19.3
			 better	 similar	 worse	















Diabetes	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Diabetes Mellitus (Age-Adjusted Death Rate)	13.0	 19.3	 19.4	 21.3	 20.5	 17.2
% Diabetes/High Blood Sugar	8.3	 11.5	 9.9	 11.7		 5.8
% Borderline/Pre-Diabetes	12.4	 6.9		 5.1		 2.1
% [Non-Diabetes] Blood Sugar Tested in Past 3 Years	54.5	 53.8		 49.2		
			 better	 similar	 worse	









































Educational & Community-Based Programs	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% Attended Health Event in Past Year	26.4	 21.1		 23.8		 24.5
			 better	 similar	 worse	




































Family Planning	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% Teen Births	4.4	 7.2	 7.6	 7.8		 5.4
			 better	 similar	 worse	


















Hearing & Other Sensory or Communication Disorders	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% Deafness/Trouble Hearing	8.7	 6.7		 10.3		 2.9
			 better	 similar	 worse	
Heart Disease & Stroke	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Diseases of the Heart (Age-Adjusted Death Rate)	146.8	 172.0	 173.9	 171.3	 156.9	 182.6
Stroke (Age-Adjusted Death Rate)	32.9	 35.4	 37.7	 37.0	 34.8	 46.0
% Heart Disease (Heart Attack, Angina, Coronary Disease)	3.1	 5.4		 6.1		 4.5
% Stroke	1.1	 3.0	 2.8	 3.9		 2.5
% Blood Pressure Checked in Past 2 Years	95.4	 95.4		 91.0	 92.6	 96.9
% Told Have High Blood Pressure (Ever)	34.0	 34.6	 30.1	 34.1	 26.9	 26.0
% [HBP] Taking Action to Control High Blood Pressure	94.0	 93.5		 89.2		
% Cholesterol Checked in Past 5 Years	98.3	 92.4	 74.0	 86.6	 82.1	 89.9
% Told Have High Cholesterol (Ever)	29.4	 31.2	 36.6	 29.9	 13.5	 29.8

Heart Disease & Stroke (continued)	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% [HBC] Taking Action to Control High Blood Cholesterol	92.9	 89.7		 81.4		 84.6
% 1+ Cardiovascular Risk Factor	74.3	 80.9		 82.3		 76.1
			 better	 similar	 worse	



























HIV	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
HIV/AIDS (Age-Adjusted Death Rate)	0.8	 2.2	 1.6	 2.2	 3.3	 0.6
HIV Prevalence per 100,000	90.1	 449.1	 300.1	 340.4		
% [Age 18-44] HIV Test in the Past Year	25.0	 28.0		 19.3		 9.9
			 better	 similar	 worse	






































Immunization & Infectious Diseases	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% [Age 65+] Flu Vaccine in Past Year	49.8	 56.6	 58.6	 57.5	 70.0	
% [High-Risk 18-64] Flu Vaccine in Past Year	53.2	 45.3		 45.9	 70.0	
% [Age 65+] Pneumonia Vaccine Ever	84.3	 68.9	 64.6	 68.4	 90.0	
% [High-Risk 18-64] Pneumonia Vaccine Ever	50.5	 37.3		 41.9	 60.0	
% Have Completed Hepatitis B Vaccination Series	41.5	 41.8		 44.7		 45.7
			 better	 similar	 worse	
Injury & Violence Prevention	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Unintentional Injury (Age-Adjusted Death Rate)	25.3	 25.7	 32.9	 39.2	 36.4	 25.2
Motor Vehicle Crashes (Age-Adjusted Death Rate)	5.5	 5.4	 7.9	 10.7	 12.4	 8.7
% "Always" Wear Seat Belt	94.2	 89.4		 84.8	 92.0	 95.7
% Child [Age 0-17] "Always" Uses Seat Belt/Car Seat	99.5	 91.7		 92.2		 99.4
% Child [Age 5-17] "Always" Wears Bicycle Helmet	30.5	 37.6		 48.7		 30.8






































Injury & Violence Prevention (continued)	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Firearm-Related Deaths (Age-Adjusted Death Rate)	4.8	 9.6	 8.8	 10.4	 9.3	 4.2
% Firearm in Home	14.0	 12.4		 34.7		 16.7
% [Homes With Children] Firearm in Home	15.0	 11.9		 37.4		 13.1
% [Homes With Firearms] Weapon(s) Unlocked & Loaded	9.8	 11.7		 16.8		
Homicide (Age-Adjusted Death Rate)	2.5	 8.6	 6.3	 5.3	 5.5	 2.5
Violent Crime per 100,000	116.5	 507.9	 403.2	 380.9		 171.6
% Victim of Violent Crime in Past 5 Years	2.5	 4.6		 2.8		 1.2
% Victim of Domestic Violence (Ever)	9.9	 10.7		 15.0		 6.5
% Perceive Neighborhood to be "Not At All Safe" from Crime	1.7	 3.8				 0.0
% [Child 5-17] Missed School for Safety Reasons Last Month	1.4	 1.9				 0.0
						
			better	similar	worse	
















Maternal, Infant & Child Health	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
No Prenatal Care in First Trimester (Percent)	4.9	 5.5	 5.4	 17.3	 22.1	
Low Birthweight Births (Percent)	7.2	 8.6	 4.0	 8.0	 7.8	 7.6
Infant Death Rate	4.6	 6.3	 6.3	 6.0	 6.0	 6.8
			 better	 similar	 worse	








































Mental Health & Mental Disorders	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% "Fair/Poor" Mental Health	8.9	 13.2		 11.9	 6.2	
% Diagnosed Depression	12.3	 15.5		 20.4	 3.4	
% Symptoms of Chronic Depression (2+ Years)	23.1	 26.0		 30.4	 13.2	
Suicide (Age-Adjusted Death Rate)	7.2	 8.1	 9.7	 12.5	 10.2	 6.7
% Have Ever Sought Help for Mental Health	23.8			 23.7	 16.2	
% [Those With Diagnosed Depression] Seeking Help	88.3	 81.8		 76.6		
% Typical Day Is "Extremely/Very" Stressful	11.3	 11.8		 11.9	 12.7	
% 3+ Days Without Enough Sleep in the Past Month	64.9	 62.5			 67.9	
			 better	 similar	 worse	






Nutrition, Physical Activity & Weight	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% Eat 5+ Servings of Fruit or Vegetables per Day	47.8	 39.6		 39.5		 43.2
% "Very/Somewhat" Difficult to Buy Fresh Produce	12.1	 16.2		 24.4		 11.2
Population With Low Food Access (Percent)	34.6	 13.6	 20.4	 23.6		
% Medical Advice on Nutrition in Past Year	59.2	 47.1		 39.2		 46.5
% Healthy Weight (BMI 18.5-24.9)	36.0	 31.8	 33.0	 34.4	 33.9	 35.1
% Overweight (BMI 25+)	62.3	 66.4	 64.7	 63.1		 63.1
% Obese (BMI 30+)	26.7	 30.1	 29.4	 29.0	 30.5	 19.9
% Medical Advice on Weight in Past Year	36.8	 30.0		 23.7		 27.1
% [Overweights] Counseled About Weight in Past Year	52.6	 37.6		 31.8		 30.3
% [Obese Adults] Counseled About Weight in Past Year	67.5	 53.4		 48.3		
% [Overweights] Trying to Lose Weight Both Diet/Exercise	41.2	 42.6		 39.5		 44.5





































Nutrition, Physical Activity & Weight (continued)	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% Child [Age 5-17] Healthy Weight	69.4	 55.9		 56.7		 65.0
% Children [Age 5-17] Overweight (85th Percentile)	24.4	 31.6		 31.5		 35.0
% Children [Age 5-17] Obese (95th Percentile)	19.8	 18.1		 14.8	 14.5	 17.4
% No Leisure-Time Physical Activity	12.8	 17.5	 25.1	 20.7	 32.6	 12.4
% Meeting Physical Activity Guidelines	56.7	 50.7		 50.3		 57.2
% Moderate Physical Activity	34.2	 29.1		 30.6		 26.6
% Vigorous Physical Activity	46.8	 39.4		 38.0		 48.5
Recreation/Fitness Facilities per 100,000	11.9	 10.8	 10.2	 9.7		
% "Very/Somewhat" Difficult to Access a Place for Exercise	10.7	 15.4				 12.8
% Medical Advice on Physical Activity in Past Year	59.9	 52.6		 44.0		 50.3
% Child [Age 2-17] Physically Active 1+ Hours per Day	46.1	 48.8		 48.6		
						
			better	similar	worse	



























Oral Health	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% [Age 18+] Dental Visit in Past Year	82.3	 69.8	 66.9	 65.9	 49.0	 83.0
% Child [Age 2-17] Dental Visit in Past Year	96.5	 86.5		 81.5	 49.0	 89.1
% Have Dental Insurance	84.3	 71.9		 65.6		 83.8
			 better	 similar	 worse	











Respiratory Diseases	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
CLRD (Age-Adjusted Death Rate)	32.6	 31.0	 39.3	 42.0		 33.8
Pneumonia/Influenza (Age-Adjusted Death Rate)	15.2	 16.6	 16.8	 15.3		 18.6
% COPD (Lung Disease)	7.8	 7.8	 5.0	 8.6		 3.0
% [Adult] Currently Has Asthma	7.2	 8.9	 7.6	 9.4		 5.3
% [Child 0-17] Currently Has Asthma	4.5	 8.6		 7.1		 10.3
			 better	 similar	 worse	

Sexually Transmitted Diseases	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Gonorrhea Incidence per 100,000	36.6	 184.7	 141.0	 107.5		
Chlamydia Incidence per 100,000	249.9	 619.6	 526.1	 456.7		
% [Unmarried 18-64] 3+ Sexual Partners in Past Year	18.7	 12.9		 11.7	 0.9	
% [Unmarried 18-64] Using Condoms	25.0	 50.1		 33.6	 42.9	
			 better	 similar	 worse	

Sickle-Cell Anemia	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% Sickle-Cell Anemia	0.4	 0.8			 0.0	
			 better	 similar	 worse	

Substance Abuse	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
Cirrhosis/Liver Disease (Age-Adjusted Death Rate)	7.2	 8.3	 8.5	 9.9	 8.2	 6.7
% Liver Disease	4.0	 1.6				 0.5
% Current Drinker	71.6	 60.6	 57.2	 56.5		 70.1
% Chronic Drinker (Average 2+ Drinks/Day)	5.2	 4.5		 5.2		 3.1
% Binge Drinker (Single Occasion - 5+ Drinks Men, 4+ Women)	19.0	 18.4		 19.5	 24.4	 22.7
% Drinking & Driving in Past Month	0.3	 1.4		 5.0		 1.8
Drug-Induced Deaths (Age-Adjusted Death Rate)	11.0	 11.1	 12.1	 14.1	 11.3	 7.6
% Illicit Drug Use in Past Month	10.6	 4.7		 4.0	 7.1	 0.4
% Ever Sought Help for Alcohol or Drug Problem	2.9	 3.4		 4.9		 3.0
			 better	 similar	 worse	

Tobacco Use	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% Current Smoker	12.2	 12.6	 18.0	 14.9	 12.0	 10.3
% Someone Smokes at Home	9.5	 13.7		 12.7		 8.9
% [Non-Smokers] Someone Smokes in the Home	2.8	 7.7		 6.3		 4.4
% [Household With Children] Someone Smokes in the Home	4.3	 11.1		 9.7		 2.7
% Smoke Cigars	3.2	 4.7		 4.1	 0.2	 4.7
% Use Smokeless Tobacco	1.0	 1.5	 2.6	 4.0	 0.3	 1.5
			 better	 similar	 worse	

Vision	Edward Hospital	Edward Hospital vs. Benchmarks				TREND
		vs. MCHC Region	vs. IL	vs. US	vs. HP2020	
% Blindness/Trouble Seeing	6.5	 8.7	 3.9	 8.5		 7.1
% Eye Exam in Past 2 Years	57.1	 58.1		 56.8		 62.7
			 better	 similar	 worse	

# Community Description



**Professional Research Consultants, Inc.**



## Population Characteristics

### Total Population

DuPage and Will counties, the focus of this Community Health Needs Assessment, encompass 1164.10 square miles and house a total population of 1,602,491 residents, according to latest census estimates.

**Total Population**  
(Estimated Population, 2009-2013)

	Total Population	Total Land Area (Square Miles)	Population Density (Per Square Mile)
DuPage County	922,803	327.41	2,818.47
Will County	679,688	836.69	812.36
MCHC Region	6,837,274	1,716.04	3,984.33
Illinois	12,848,554	55,504.25	231.49
United States	311,536,591	3,530,997.6	88.23

Sources:

- US Census Bureau American Community Survey 5-year estimates (2009-2013).
- Retrieved August 2015 from Community Commons at <http://www.chna.org>.

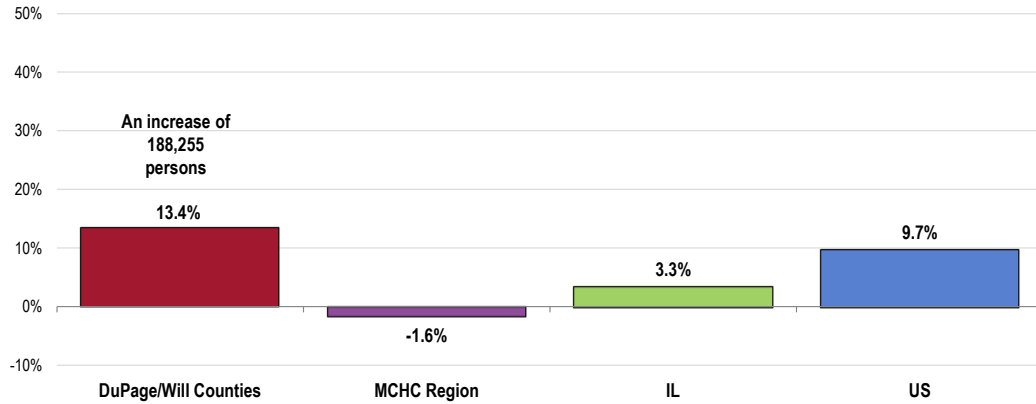
### Population Change 2000-2010

A significant positive or negative shift in total population over time impacts healthcare providers and the utilization of community resources.

**Between the 2000 and 2010 US Censuses, the population of DuPage and Will counties increased by 188,255 persons, or 13.4%.**

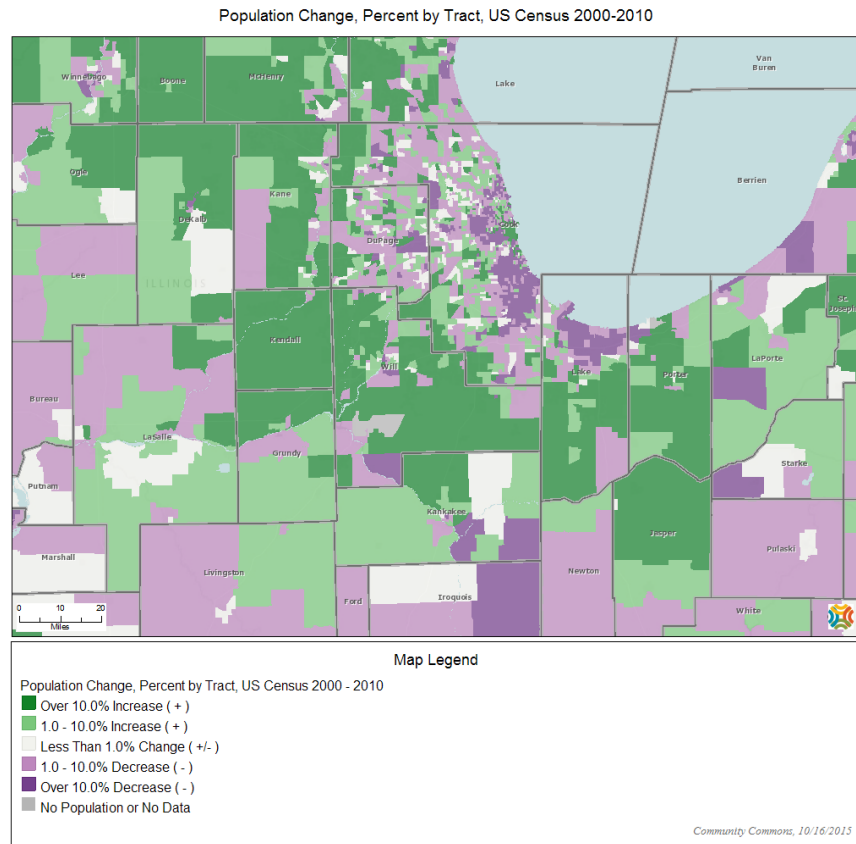
- A greater proportional increase than seen across the state.
- A similar proportional increase to that seen nationwide.

### Change in Total Population (Percentage Change Between 2000 and 2010)



Sources: • Retrieved August 2015 from Community Commons at <http://www.chna.org>.  
 • US Census Bureau Decennial Census (2000-2010).  
 Notes: • A significant positive or negative shift in total population over time impacts healthcare providers and the utilization of community resources.

The following map outlines the population change in DuPage and Will counties by census tracts over the past decade.

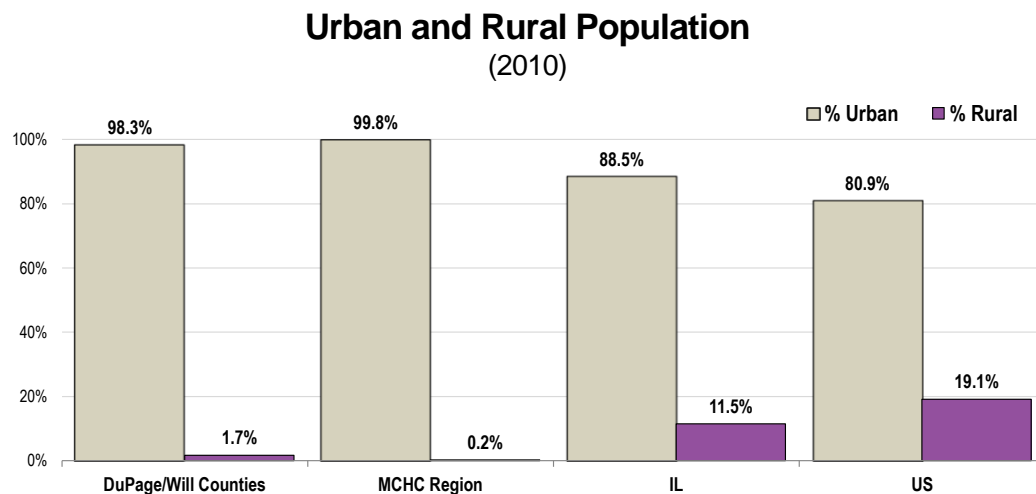


## Urban/Rural Population

Urban areas are identified using population density, count, and size thresholds. Urban areas also include territory with a high degree of impervious surface (development). Rural areas are all areas that are not urban.

**DuPage and Will counties are predominantly urban, with over 98% of the population living in areas designated as urban.**

- The proportion of urban population in DuPage and Will counties is similar to the MCHC Region.
- The proportion of urban population in DuPage and Will counties is higher than that found statewide and nationally.

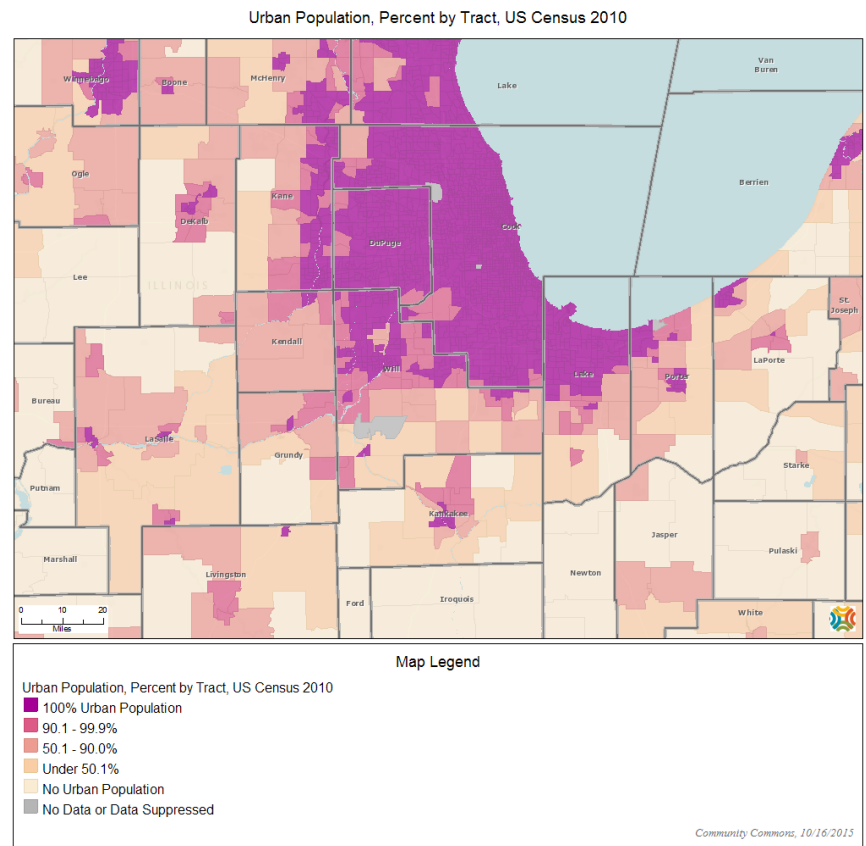


Sources: • US Census Bureau Decennial Census (2010).

• Retrieved August 2015 from Community Commons at <http://www.chna.org>.

Notes: • This indicator reports the percentage of population living in urban and rural areas. Urban areas are identified using population density, count, and size thresholds. Urban areas also include territory with a high degree of impervious surface (development). Rural areas are all areas that are not urban.

- Note the following map outlining the urban population in the census tracts of DuPage and Will counties as of 2010.



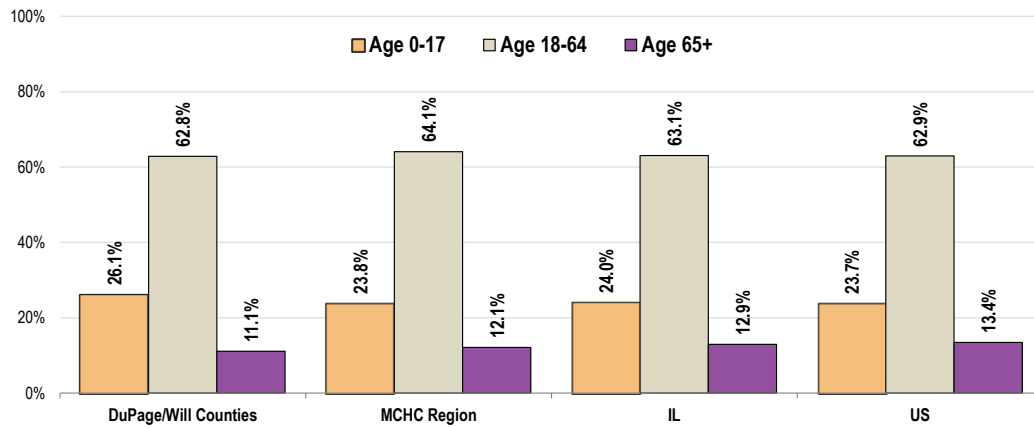
## Age

It is important to understand the age distribution of the population as different age groups have unique health needs which should be considered separately from others along the age spectrum.

**In DuPage and Will counties, 26.1% of the population are infants, children or adolescents (age 0-17); another 62.8% are age 18 to 64, while 11.1% are age 65 and older.**

- The proportional breakdown by age is similar to that found regionally.
- The breakdown by age is similar to that found statewide and nationally.

### Total Population by Age Groups, Percent (2009-2013)

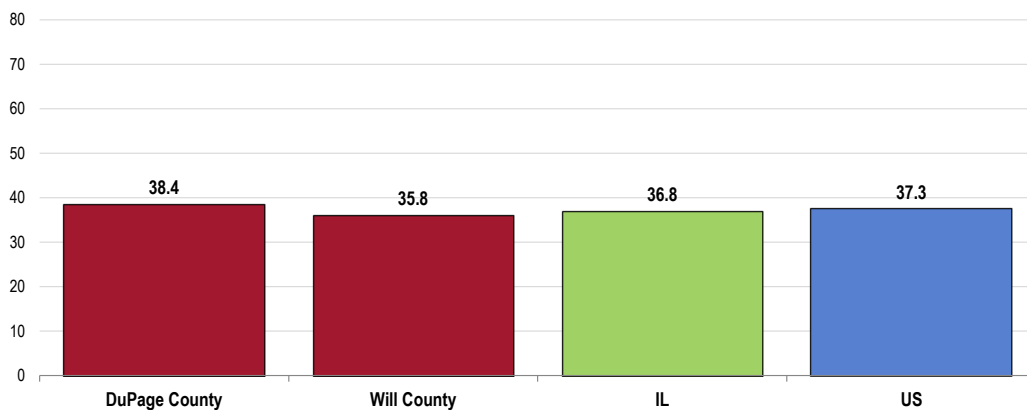


Sources: • US Census Bureau American Community Survey 5-year estimates (2009-2013).  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.

### Median Age

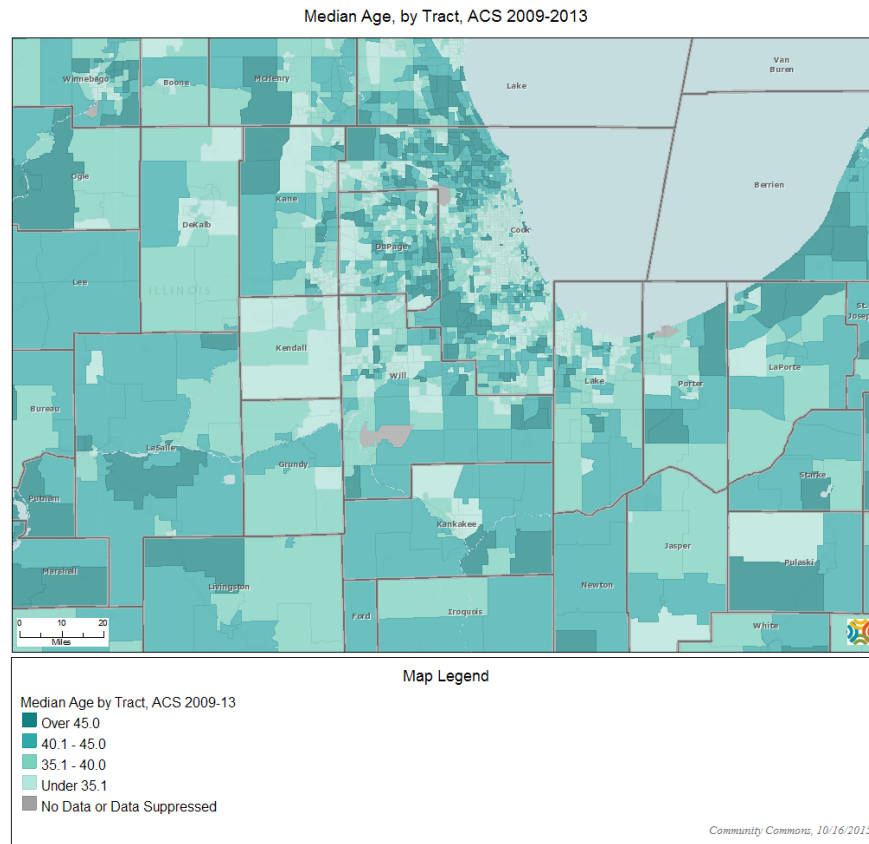
DuPage County is “older” than the state and the nation in that the median age is higher; Will County is “younger” than the state and the nation.

### Median Age (2009-2013)



Sources: • US Census Bureau American Community Survey 5-year estimates (2009-2013).  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.

- The following map provides an illustration of the median age in DuPage/Will counties segmented by census tract.



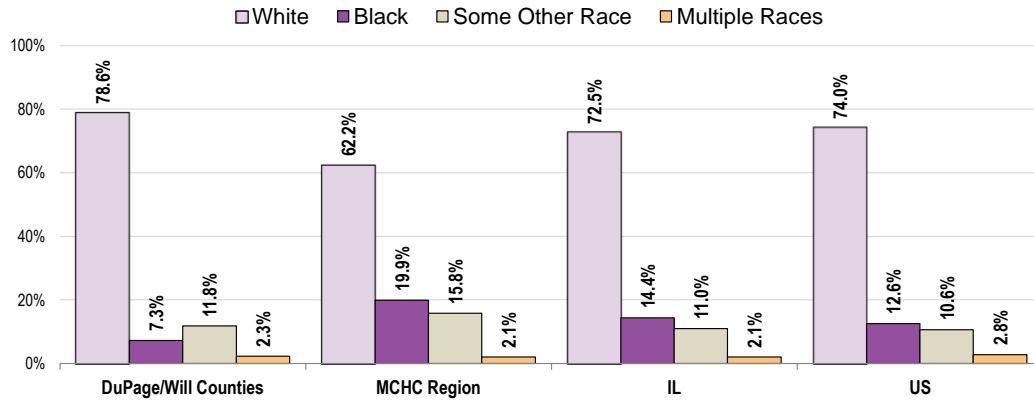
## Race & Ethnicity

### Race

In looking at race independent of ethnicity (Hispanic or Latino origin), 78.6% of residents of DuPage/Will counties are White and 7.3% are Black.

- The service area has a higher proportion of White residents and lower proportions of Black and “Other Race” residents than that reported regionally.
- The area has a higher proportion of White residents and a lower proportion of Black residents than the state and US in general.

### Total Population by Race Alone, Percent (2009-2013)



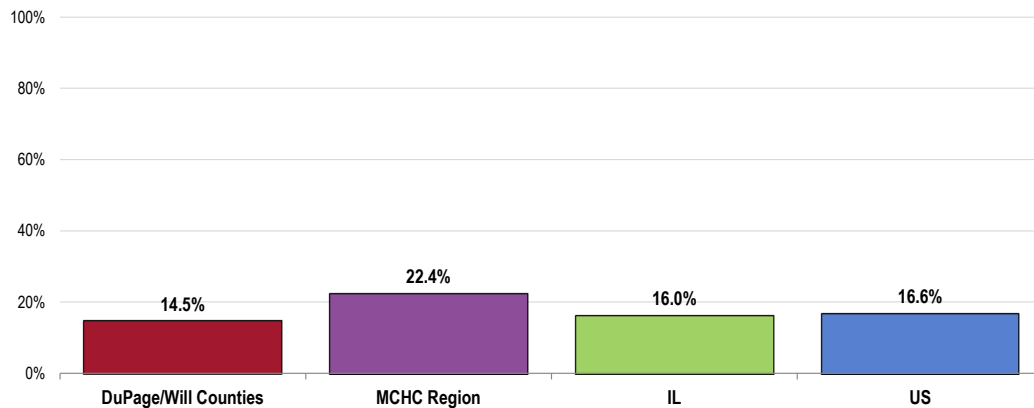
Sources: • US Census Bureau American Community Survey 5-year estimates (2009-2013).  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.

### Ethnicity

A total of 14.5% of the residents of DuPage/Will counties are Hispanic or Latino.

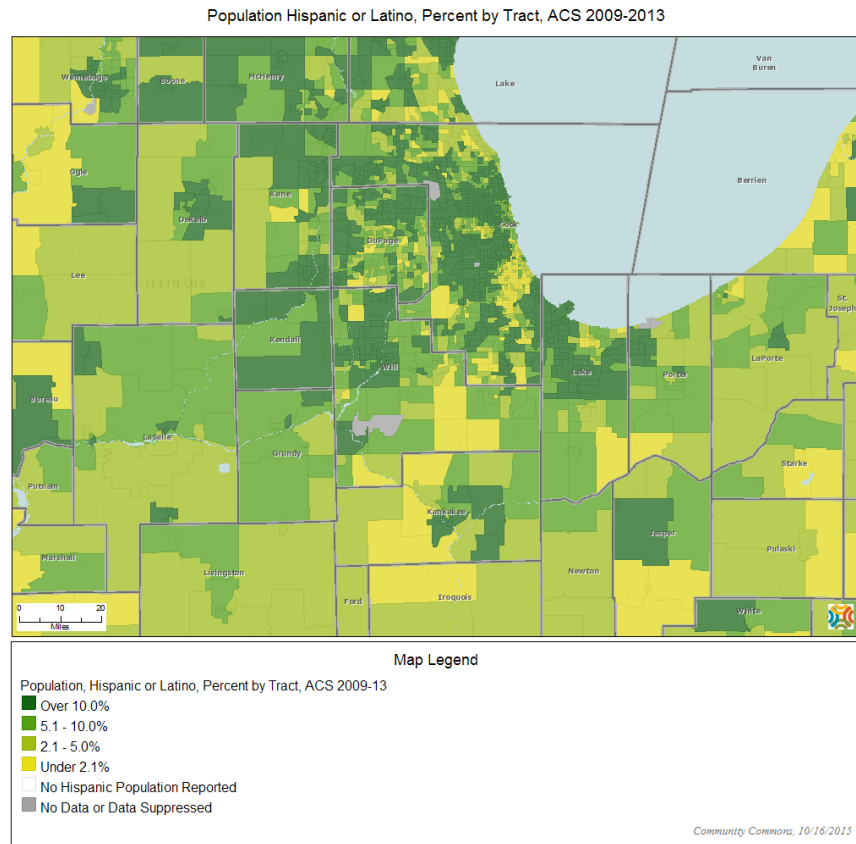
- Lower than found in the MCHC Region.
- Similar to that found statewide.
- Similar to that found nationally.

### Percent Population Hispanic or Latino (2009-2013)



Sources: • US Census Bureau American Community Survey 5-year estimates (2009-2013).  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.  
 Notes: • Origin can be viewed as the heritage, nationality group, lineage, or country of birth of the person or the person's parents or ancestors before their arrival in the United States. People who identify their origin as Hispanic, Latino, or Spanish may be of any race.

- The following map provides an illustration of the Hispanic concentration in DuPage/Will counties.

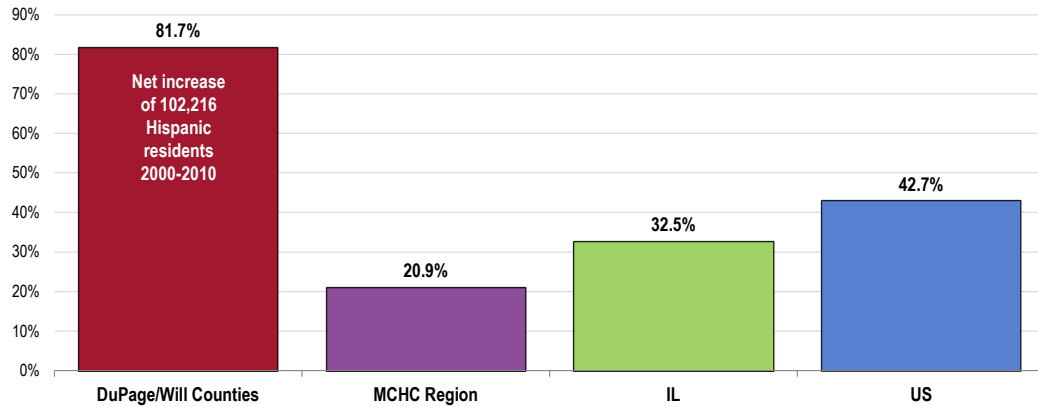


**Between 2000 and 2010, the Hispanic population in DuPage/Will counties increased by 102,216 residents, or 81.7%.**

- Much higher (in terms of percentage growth) than found regionally.
- Much higher than found statewide.
- Much higher than found nationally.



### Hispanic Population Change (Percentage Change in Hispanic Population Between 2000 and 2010)



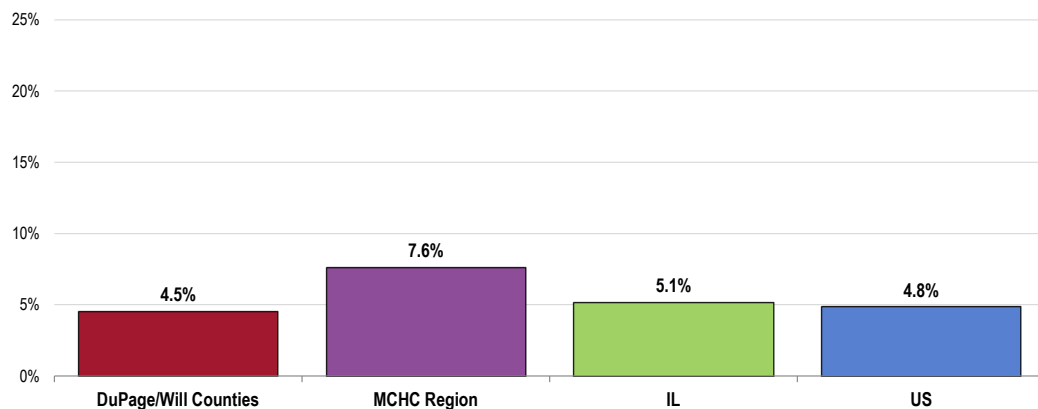
Sources: • US Census Bureau Decennial Census (2000-2010).  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.

### Linguistic Isolation

A total of 4.5% of the DuPage/Will counties population age 5 and older live in a home in which no persons age 14 or older is proficient in English (speaking only English, or speaking English “very well”).

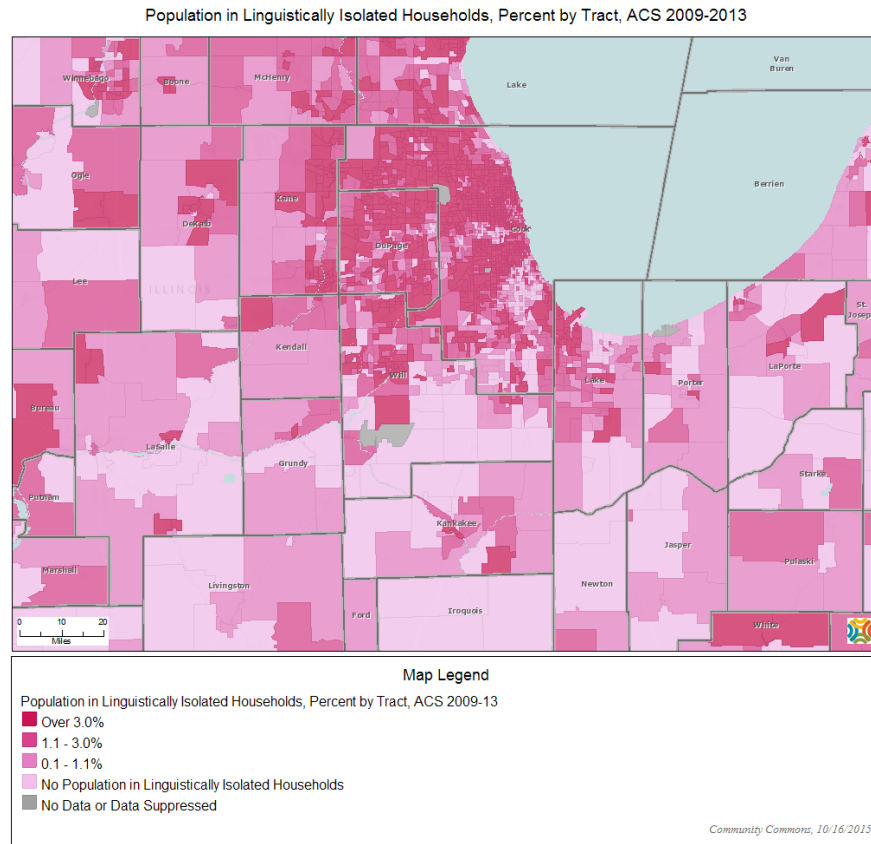
- More favorable than the MCHC Region.
- More favorable than that found statewide.
- More favorable than that found nationally.

### Linguistically Isolated Population (2009-2013)



Sources: • US Census Bureau American Community Survey 5-year estimates (2009-2013).  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.  
 Notes: • This indicator reports the percentage of the population aged 5 and older who live in a home in which no person 14 years old and over speaks only English, or in which no person 14 years old and over speak a non-English language and speak English “very well.”

- Note the following map illustrating linguistic isolation in DuPage/Will counties.



## Social Determinants of Health

### About Social Determinants

Health starts in our homes, schools, workplaces, neighborhoods, and communities. We know that taking care of ourselves by eating well and staying active, not smoking, getting the recommended immunizations and screening tests, and seeing a doctor when we are sick all influence our health. Our health is also determined in part by access to social and economic opportunities; the resources and supports available in our homes, neighborhoods, and communities; the quality of our schooling; the safety of our workplaces; the cleanliness of our water, food, and air; and the nature of our social interactions and relationships. The conditions in which we live explain in part why some Americans are healthier than others and why Americans more generally are not as healthy as they could be.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Poverty

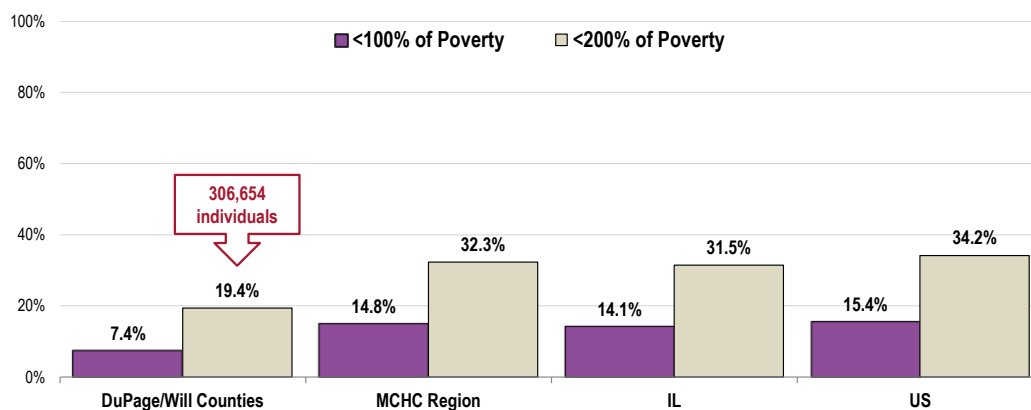
The latest census estimate shows 7.4% of the DuPage/Will County population living below the federal poverty level.

In all, 19.4% of DuPage/Will County residents (an estimated 306,654 individuals) live below 200% of the federal poverty level.

- Better than the regional percentage.
- Better than the proportion reported statewide.
- Better than found nationally.

### Population in Poverty

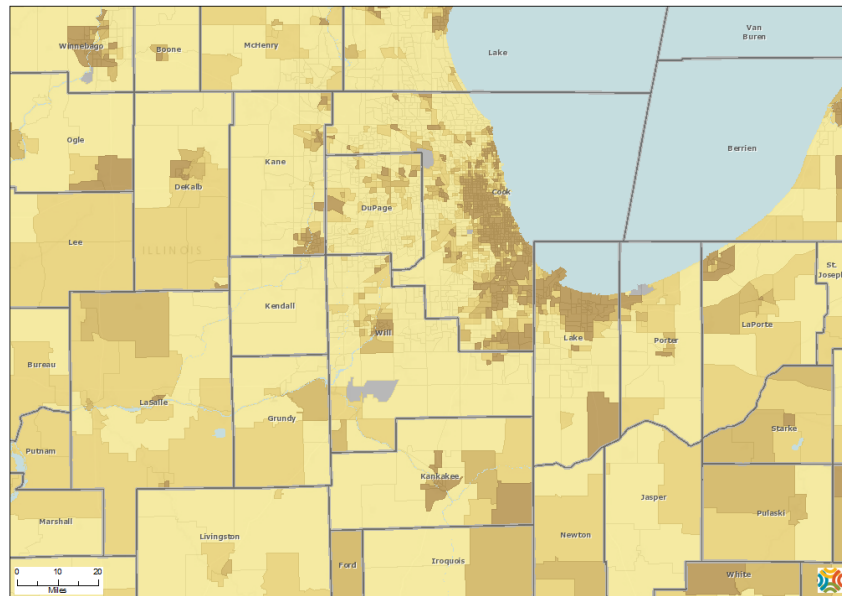
(Populations Living Below 100% and Below 200% of the Poverty Level; 2009-2013)



- Sources:
- US Census Bureau American Community Survey 5-year estimates (2009-2013).
  - Retrieved August 2015 from Community Commons at <http://www.chna.org>.
- Notes:
- Poverty is considered a key driver of health status. This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

- The following maps provide a visual distribution of residents by poverty level in DuPage/Will counties.

Population Below the Poverty Level, Percent by Tract, ACS 2009-2013



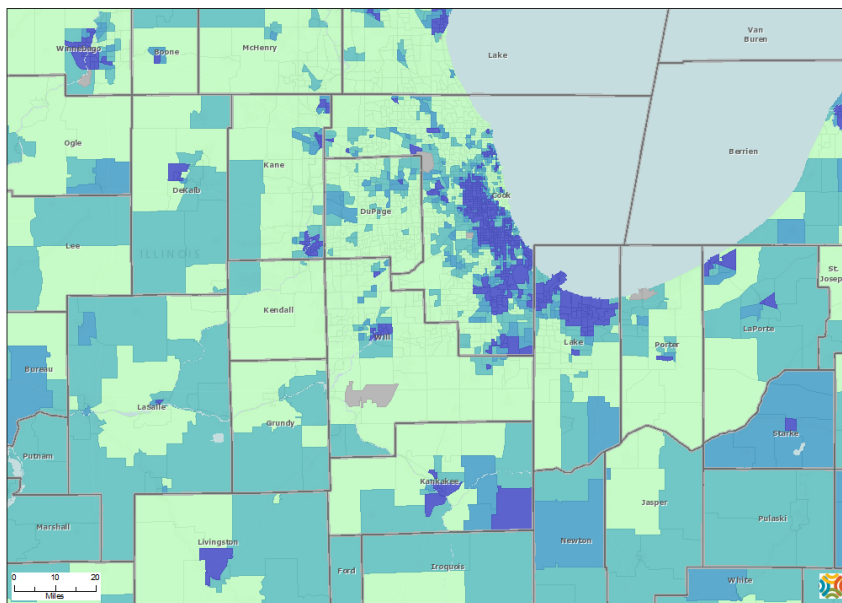
Map Legend

Population Below the Poverty Level, Percent by Tract, ACS 2009-13

- Over 20.0%
- 15.1 - 20.0%
- 10.1 - 15.0%
- Under 10.1%
- No Data or Data Suppressed

Community Commons, 10/16/2015

Population Below 200% of Poverty, Percent by Tract, ACS 2009-2013



Map Legend

Population Below 200% Poverty Level, Percent by Tract, ACS 2009-13

- Over 50.0%
- 38.1 - 50.0%
- 26.1 - 38.0%
- Under 26.1%
- No Data or Data Suppressed

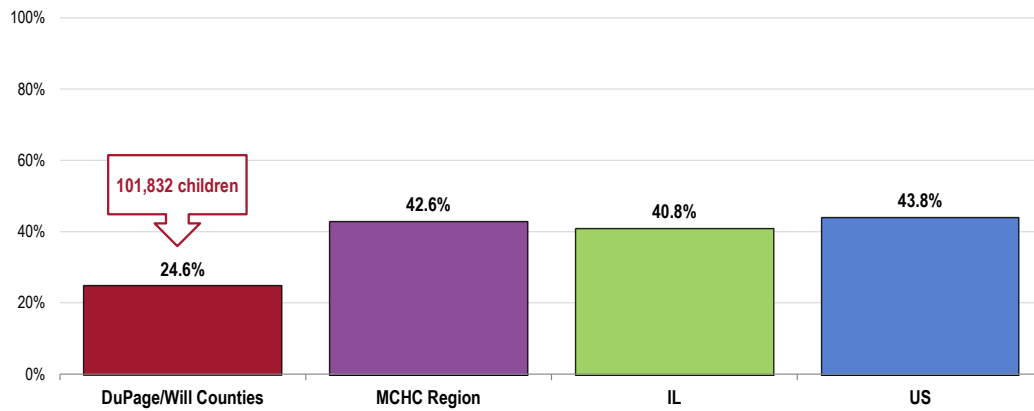
Community Commons, 10/16/2015

### Children in Low-Income Households

**Additionally, 24.6% of DuPage/Will counties children age 0-17 (representing an estimated 101,832 children) live below the 200% poverty threshold.**

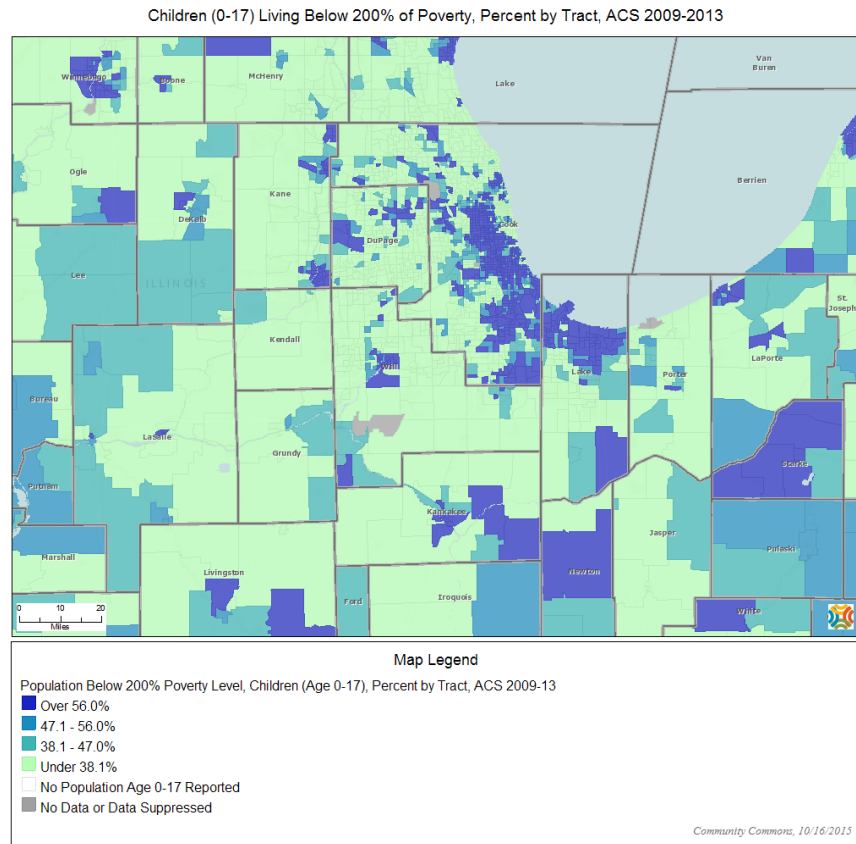
- More favorable than the proportion found regionally.
- More favorable than the proportion found statewide.
- More favorable than the proportion found nationally.

### Percent of Children in Low-Income Households (Children 0-17 Living Below 200% of the Poverty Level, 2009-2013)



Sources: • US Census Bureau American Community Survey 5-year estimates (2009-2013).  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.  
 Notes: • This indicator reports the percentage of children aged 0-17 living in households with income below 200% of the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

- Note the following geographic breakdown of children in lower-income households in DuPage/Will counties.

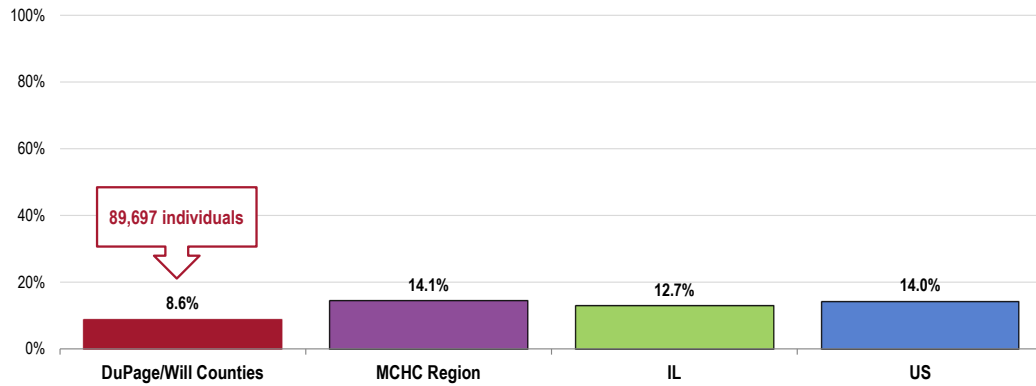


## Education

**Among the DuPage/Will counties population age 25 and older, an estimated 8.6% (nearly 90,000 people) do not have a high school education.**

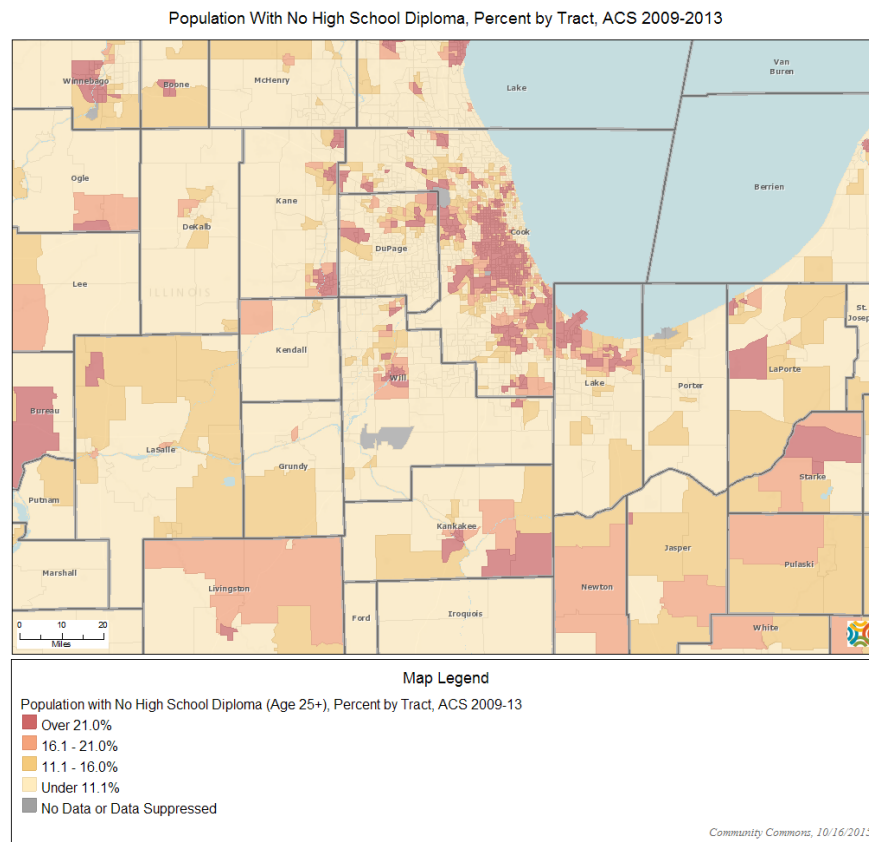
- More favorable than the MCHC Region.
- More favorable than found statewide.
- More favorable than found nationally.

## Population With No High School Diploma (Population Age 25+ Without a High School Diploma or Equivalent, 2009-2013)



- Sources:
- US Census Bureau American Community Survey 5-year estimates (2009-2013).
  - Retrieved August 2015 from Community Commons at <http://www.chna.org>.
- Notes:
- This indicator is relevant because educational attainment is linked to positive health outcomes.

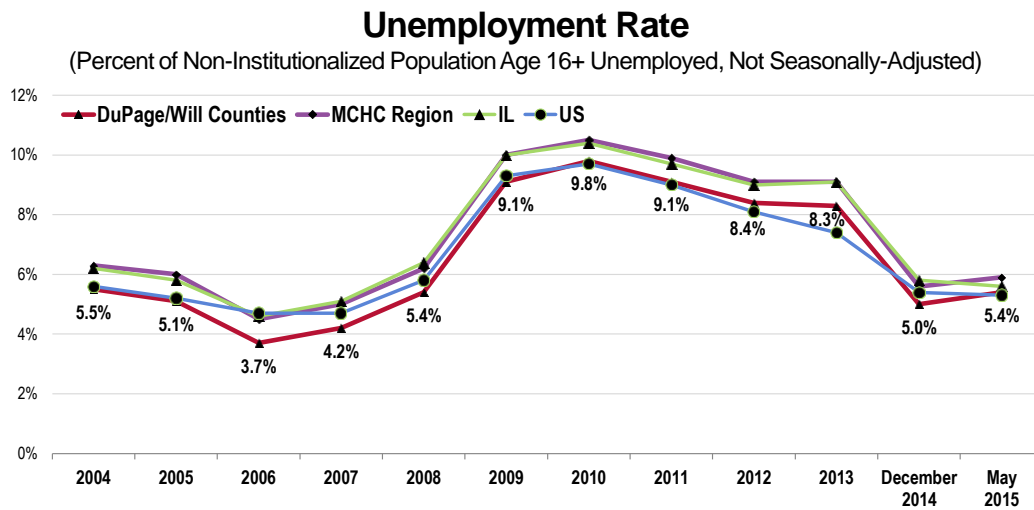
- Note the following map illustrating the area population (age 25+) without a high school diploma.



## Employment

According to data derived from the US Department of Labor, the unemployment rate in DuPage/Will counties in May 2015 was 5.4%.

- Better than the regional unemployment rate.
- Similar to the statewide unemployment rate.
- Similar to the national unemployment rate.
- TREND: Unemployment for DuPage/Will counties trended downward after peaking in 2010, echoing the state and national trends.



- Sources:
- US Department of Labor, Bureau of Labor Statistics.
  - Retrieved August 2015 from Community Commons at <http://www.chna.org>.
- Notes:
- This indicator is relevant because unemployment creates financial instability and barriers to access including insurance coverage, health services, healthy food, and other necessities that contribute to poor health status.



# General Health Status



Professional Research Consultants, Inc.

## Overall Health Status

### Self-Reported Health Status

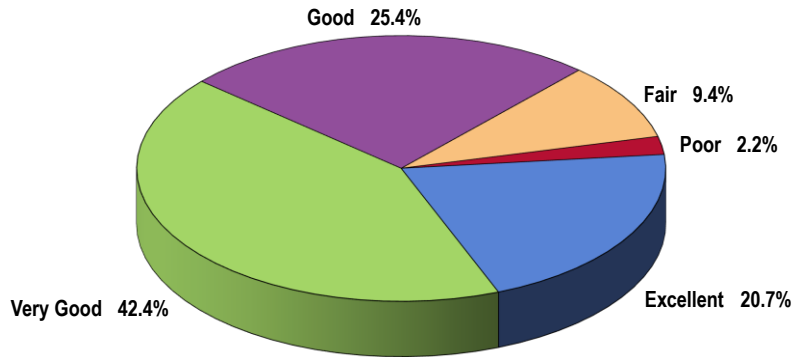
A total of 63.1% of Edward Hospital Service Area adults rate their overall health as “excellent” or “very good.”

- Another 25.4% gave “good” ratings of their overall health.

The initial inquiry of the PRC Community Health Survey asked respondents the following:

*“Would you say that in general your health is: excellent, very good, good, fair or poor?”*

**Self-Reported Health Status**  
(EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 5]  
Notes: • Asked of all respondents.

However, 11.6% of Edward Hospital Service Area adults believe that their overall health is “fair” or “poor.”

- Better than the MCHC Region findings.
- Better than statewide findings.
- Better than the national percentage.
- TREND: No statistically significant change has occurred when comparing “fair/poor” overall health reports to previous survey results.

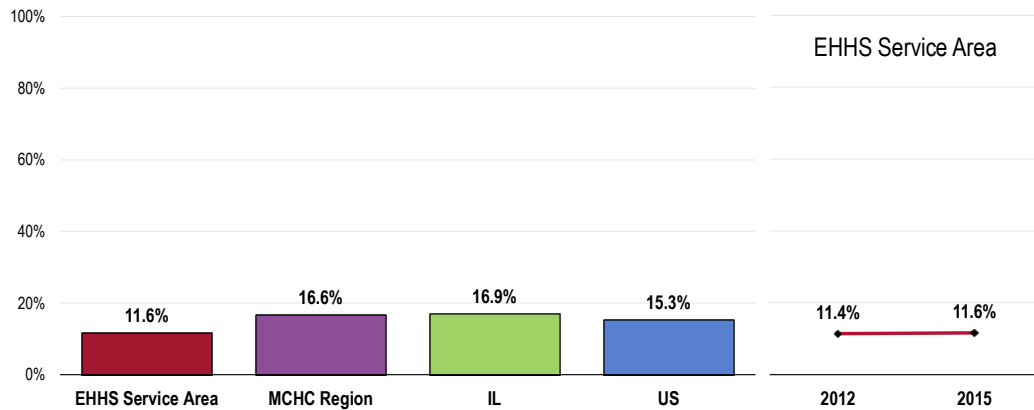
**NOTE:**

Differences noted in the text represent significant differences determined through statistical testing.

Where sample sizes permit, community-level data are provided.

Trends are measured against baseline data – i.e., the earliest year that data are available or that is presented in this report.

### Experience “Fair” or “Poor” Overall Health



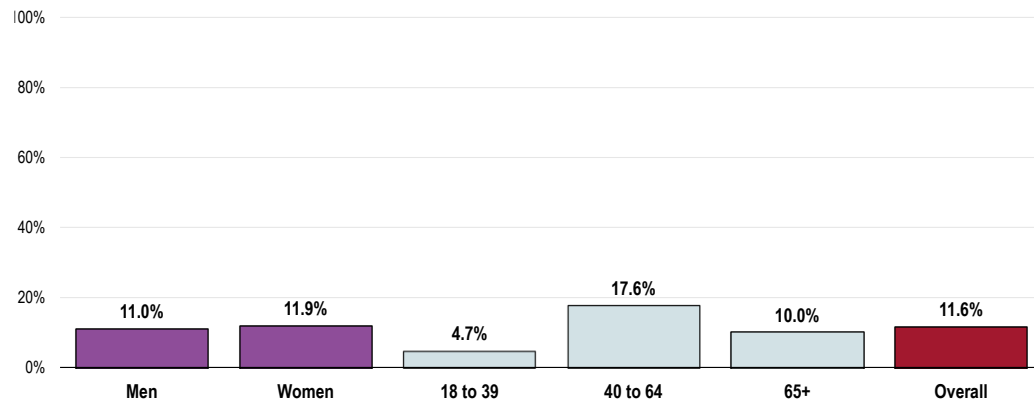
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 5]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.

Notes: • Asked of all respondents.

Adults between the ages of 40 and 64 are more likely to report experiencing “fair” or “poor” overall health.

Charts throughout this report (such as that here) detail survey findings among key demographic groups – namely by gender, age groupings, income (based on poverty status), and race/ethnicity.

### Experience “Fair” or “Poor” Overall Health (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 5]  
 Notes: • Asked of all respondents.

## Activity Limitations

RELATED ISSUE:  
See also  
*Potentially Disabling  
Conditions in the  
Death, Disease &  
Chronic Conditions*  
section of this report.

### About Disability & Health

An individual can get a disabling impairment or chronic condition at any point in life. Compared with people without disabilities, people with disabilities are more likely to:

- Experience difficulties or delays in getting the health care they need.
- Not have had an annual dental visit.
- Not have had a mammogram in past 2 years.
- Not have had a Pap test within the past 3 years.
- Not engage in fitness activities.
- Use tobacco.
- Be overweight or obese.
- Have high blood pressure.
- Experience symptoms of psychological distress.
- Receive less social-emotional support.
- Have lower employment rates.

There are many social and physical factors that influence the health of people with disabilities. The following three areas for public health action have been identified, using the International Classification of Functioning, Disability, and Health (ICF) and the three World Health Organization (WHO) principles of action for addressing health determinants.

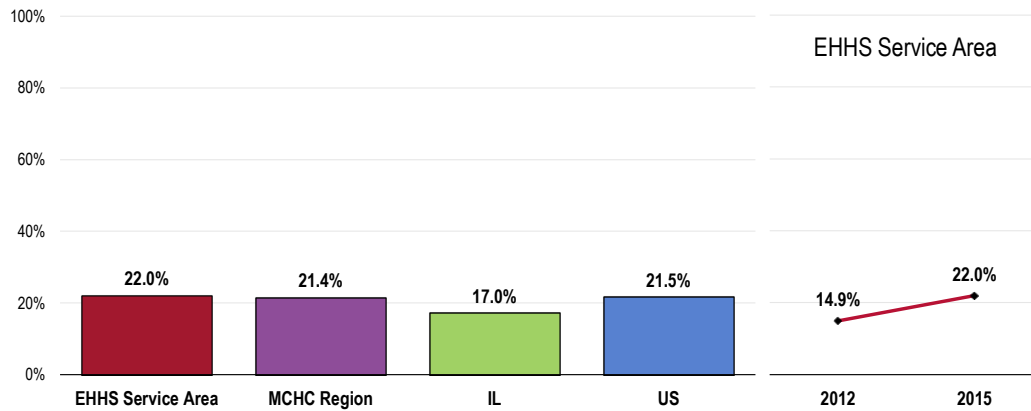
- **Improve the conditions of daily life** by: encouraging communities to be accessible so all can live in, move through, and interact with their environment; encouraging community living; and removing barriers in the environment using both physical universal design concepts and operational policy shifts.
- **Address the inequitable distribution of resources among people with disabilities and those without disabilities** by increasing: appropriate health care for people with disabilities; education and work opportunities; social participation; and access to needed technologies and assistive supports.
- **Expand the knowledge base and raise awareness about determinants of health for people with disabilities** by increasing: the inclusion of people with disabilities in public health data collection efforts across the lifespan; the inclusion of people with disabilities in health promotion activities; and the expansion of disability and health training opportunities for public health and health care professionals.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

**A total of 22.0% of Edward Hospital Service Area adults are limited in some way in some activities due to a physical, mental or emotional problem.**

- Similar to the MCHC Region.
- Less favorable than the prevalence statewide.
- Similar to the national prevalence.
- TREND: Marks a statistically significant increase in activity limitations since 2012.

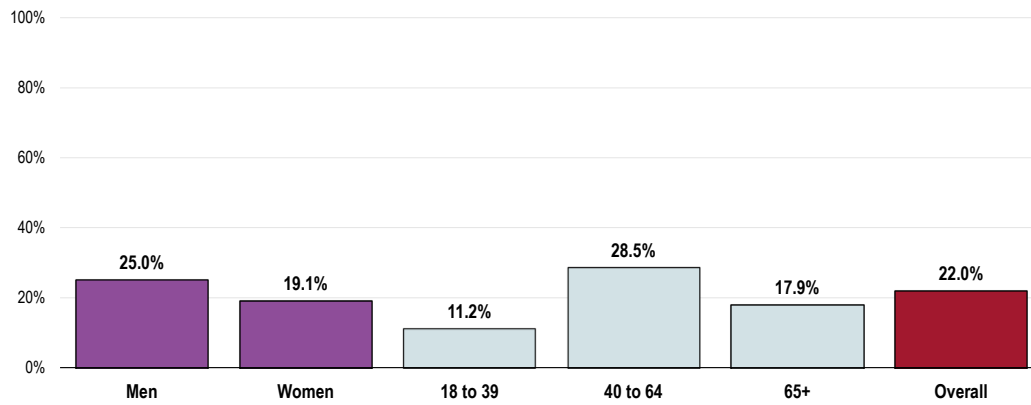
### Limited in Activities in Some Way Due to a Physical, Mental or Emotional Problem



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 105]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

In looking at responses by key demographic characteristics, note that adults aged 40 to 64 are more often limited in activities.

### Limited in Activities in Some Way Due to a Physical, Mental or Emotional Problem (EHHS Service Area, 2015)

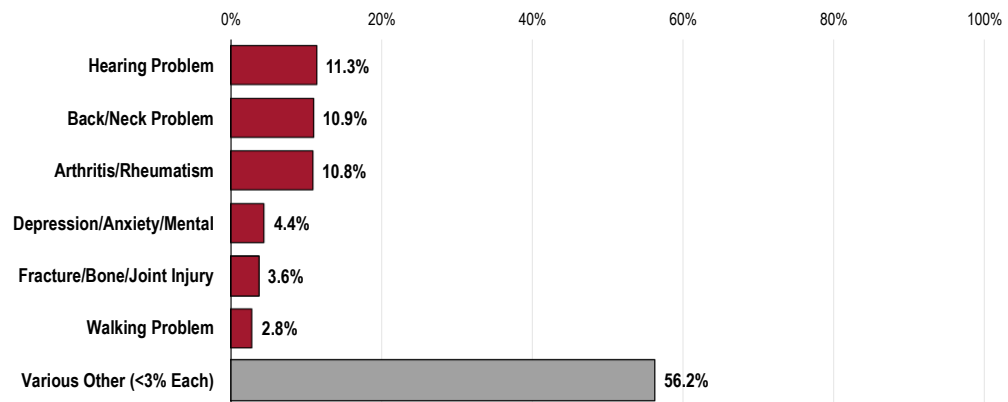


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 105]  
 Notes: • Asked of all respondents.

Among persons reporting activity limitations, these are most often attributed to musculoskeletal issues, such as back/neck problems, arthritis/rheumatism, fractures or bone/joint injuries, or difficulty walking.

Other limitations reported with some frequency include hearing problems and depression/mental health issues.

**Type of Problem That Limits Activities**  
 (Among Those Reporting Activity Limitations; EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 106]  
 Notes: • Asked of those respondents reporting activity limitations.

## Mental Health

### RELATED ISSUE:

See also  
*Potentially Disabling  
Conditions in the  
Death, Disease &  
Chronic Conditions  
section of this report.*

### About Mental Health & Mental Disorders

Mental health is a state of successful performance of mental function, resulting in productive activities, fulfilling relationships with other people, and the ability to adapt to change and to cope with challenges. Mental health is essential to personal well-being, family and interpersonal relationships, and the ability to contribute to community or society. Mental disorders are health conditions that are characterized by alterations in thinking, mood, and/or behavior that are associated with distress and/or impaired functioning. Mental disorders contribute to a host of problems that may include disability, pain, or death. Mental illness is the term that refers collectively to all diagnosable mental disorders. Mental disorders are among the most common causes of disability. The resulting disease burden of mental illness is among the highest of all diseases.

Mental health and physical health are closely connected. Mental health plays a major role in people's ability to maintain good physical health. Mental illnesses, such as depression and anxiety, affect people's ability to participate in health-promoting behaviors. In turn, problems with physical health, such as chronic diseases, can have a serious impact on mental health and decrease a person's ability to participate in treatment and recovery.

The existing model for understanding mental health and mental disorders emphasizes the interaction of social, environmental, and genetic factors throughout the lifespan. In behavioral health, researchers identify: **risk factors**, which predispose individuals to mental illness; and **protective factors**, which protect them from developing mental disorders. Researchers now know that the prevention of mental, emotional, and behavioral (MEB) disorders is inherently interdisciplinary and draws on a variety of different strategies. Over the past 20 years, research on the prevention of mental disorders has progressed. The major areas of progress include evidence that:

- MEB disorders are common and begin early in life.
- The greatest opportunity for prevention is among young people.
- There are multiyear effects of multiple preventive interventions on reducing substance abuse, conduct disorder, antisocial behavior, aggression, and child maltreatment.
- The incidence of depression among pregnant women and adolescents can be reduced.
- School-based violence prevention can reduce the base rate of aggressive problems in an average school by 25 to 33%.
- There are potential indicated preventive interventions for schizophrenia.
- Improving family functioning and positive parenting can have positive outcomes on mental health and can reduce poverty-related risk.
- School-based preventive interventions aimed at improving social and emotional outcomes can also improve academic outcomes.
- Interventions targeting families dealing with adversities, such as parental depression or divorce, can be effective in reducing risk for depression in children and increasing effective parenting.
- Some preventive interventions have benefits that exceed costs, with the available evidence strongest for early childhood interventions.
- Implementation is complex, it is important that interventions be relevant to the target audiences.
- In addition to advancements in the prevention of mental disorders, there continues to be steady progress in treating mental disorders as new drugs and stronger evidence-based outcomes become available.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

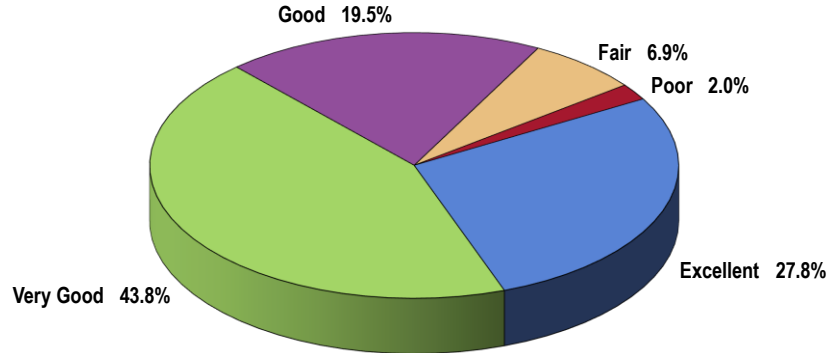
## Self-Reported Mental Health Status

A total of 71.6% of Edward Hospital Service Area adults rate their overall mental health as “excellent” or “very good.”

*“Now thinking about your mental health, which includes stress, depression and problems with emotions, would you say that, in general, your mental health is: excellent, very good, good, fair or poor?”*

- Another 19.5% gave “good” ratings of their own mental health status.

### Self-Reported Mental Health Status (EHHS Service Area, 2015)

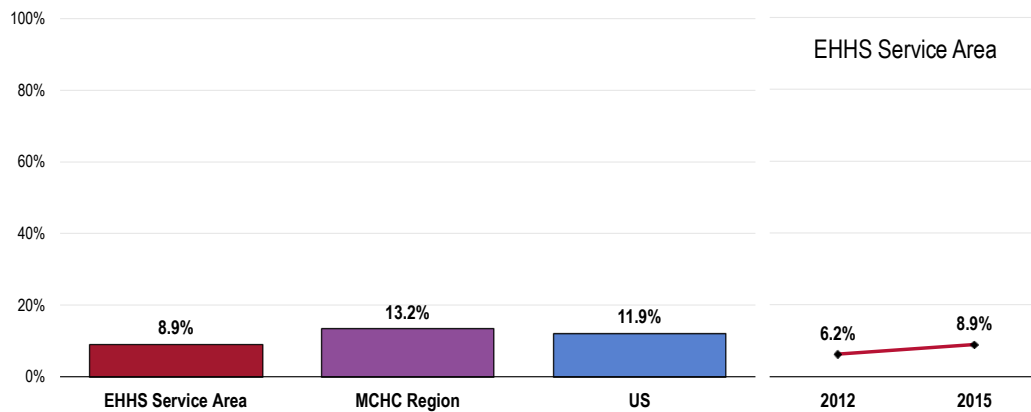


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 100]  
 Notes: • Asked of all respondents.

A total of 8.9% of Edward Hospital Service Area adults, however, believe that their overall mental health is “fair” or “poor.”

- More favorable than the “fair/poor” response reported in the MCHC Region.
- Similar to that reported nationally.
- TREND: Statistically unchanged since 2012.

### Experience “Fair” or “Poor” Mental Health

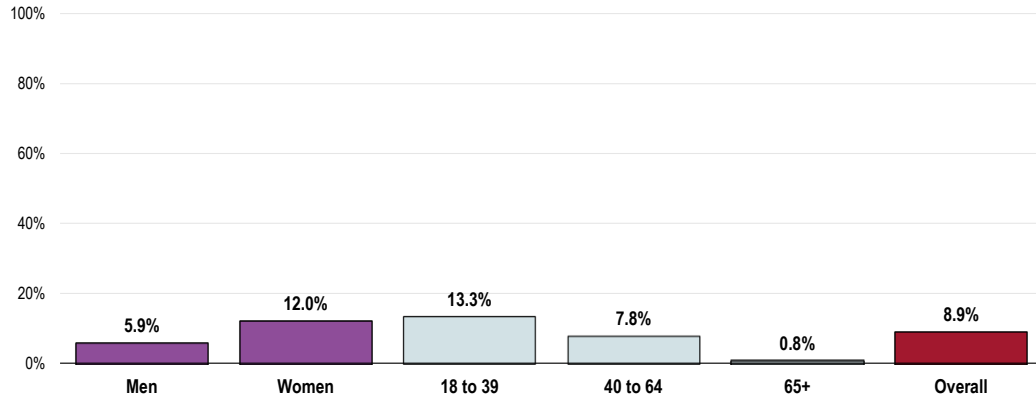


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 100]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.



- Note the negative correlation between poor mental health and age.
- Women are more likely to report experiencing “fair/poor” mental health than men.

### Experience “Fair” or “Poor” Mental Health (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 100]  
 Notes: • Asked of all respondents.

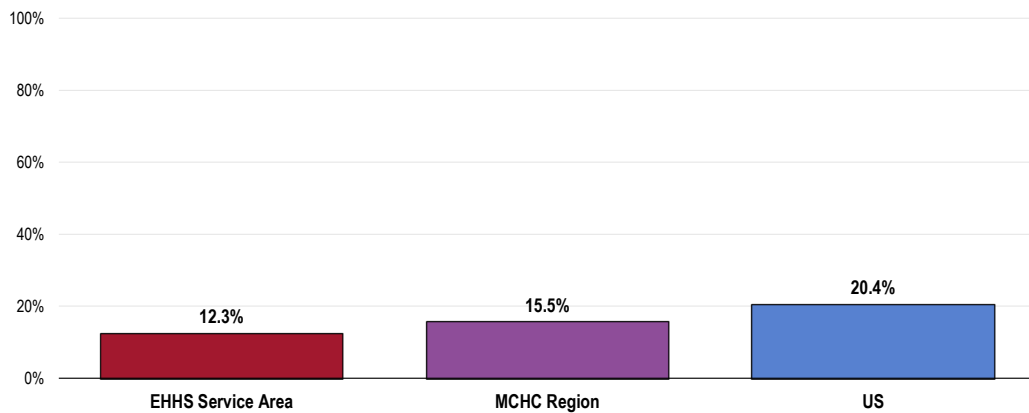
## Depression

### Diagnosed Depression

A total of 12.3% of area adults have been diagnosed by a physician as having a depressive disorder (such as depression, major depression, dysthymia, or minor depression).

- Similar to the MCHC Region.
- Better than the national finding.

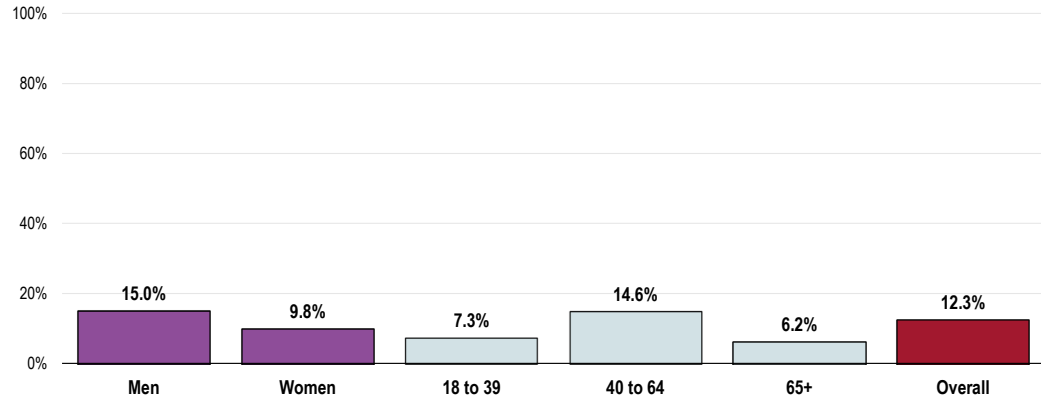
### Have Been Diagnosed With a Depressive Disorder



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 103]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.  
 • Depressive disorders include depression, major depression, dysthymia, or minor depression.

The prevalence of diagnosed depression is notably higher among adults between the ages of 40 and 64.

### Have Been Diagnosed With a Depressive Disorder (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 103]

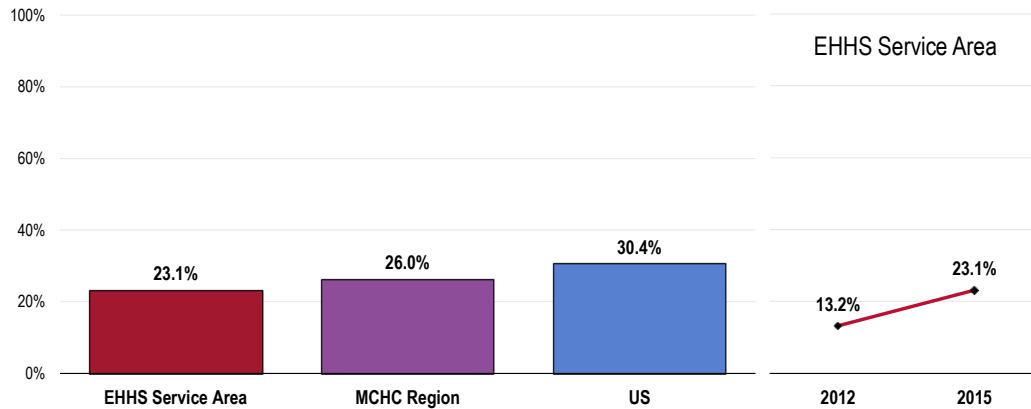
Notes: • Asked of all respondents.  
• Depressive disorders include depression, major depression, dysthymia, or minor depression.

### Symptoms of Chronic Depression

**A total of 23.1% of Edward Hospital Service Area adults have had two or more years in their lives when they felt depressed or sad on most days, although they may have felt okay sometimes (symptoms of chronic depression).**

- Similar to the MCHC Region.
- More favorable than national findings.
- TREND: Significantly increased over time.

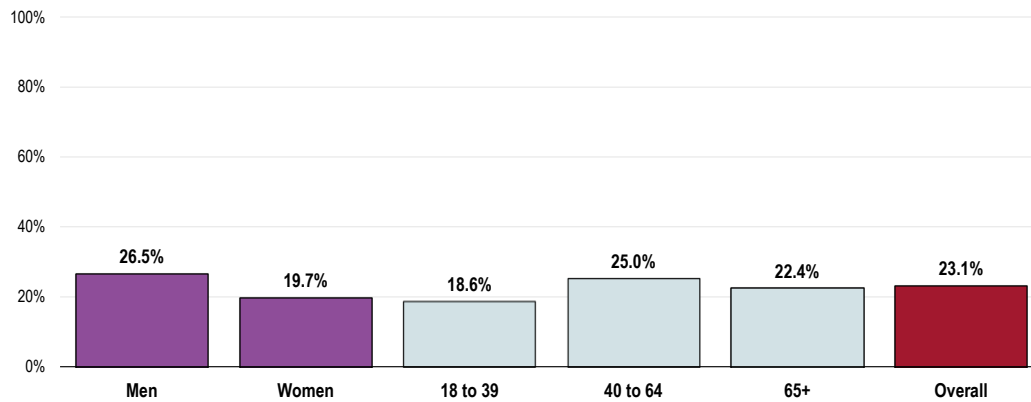
### Have Experienced Symptoms of Chronic Depression



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 101]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.  
 • Chronic depression includes periods of two or more years during which the respondent felt depressed or sad on most days, even if (s)he felt okay sometimes.

The prevalence of chronic depression does not differ significantly by demographic characteristics.

### Have Experienced Symptoms of Chronic Depression (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 101]  
 Notes: • Asked of all respondents.  
 • Chronic depression includes periods of two or more years during which the respondent felt depressed or sad on most days, even if (s)he felt okay sometimes.

RELATED ISSUE:

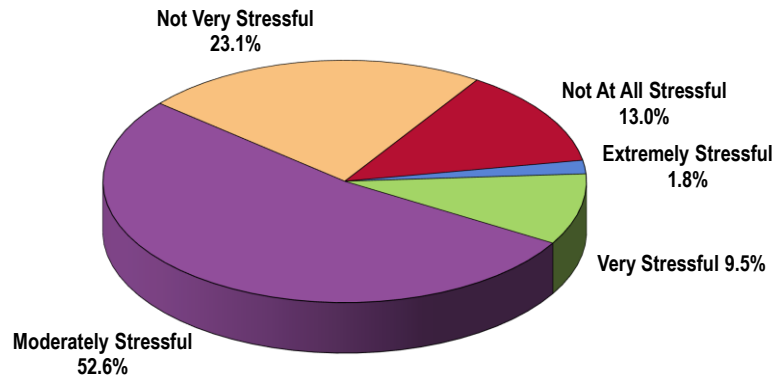
### Stress

See also *Substance Abuse in the Modifiable Health Risks* section of this report.

More than 3 in 10 service area adults consider their typical day to be “not very stressful” (23.1%) or “not at all stressful” (13.0%).

- Another 52.6% of survey respondents characterize their typical day as “moderately stressful.”

### Perceived Level of Stress On a Typical Day (EHHS Service Area, 2015)

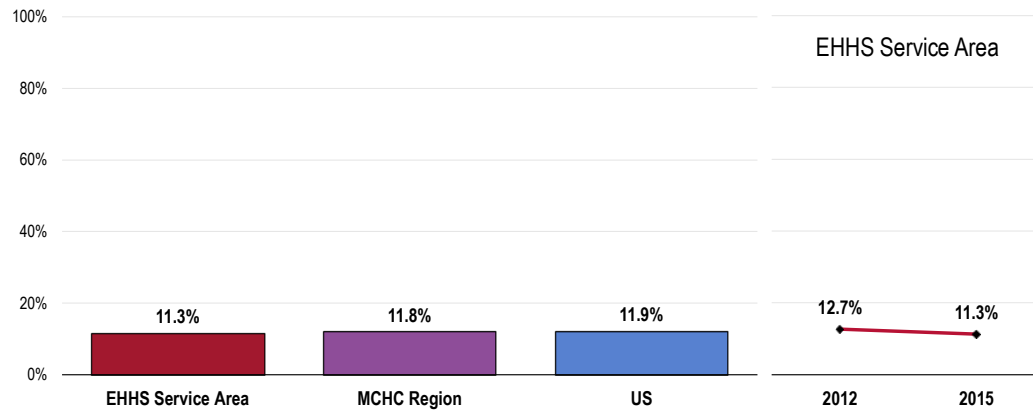


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 102]  
 Notes: • Asked of all respondents.

**In contrast, 11.3% of Edward Hospital Service Area adults experience “very” or “extremely” stressful days on a regular basis.**

- Similar to the MCHC Region.
- Similar to the national findings.
- TREND: Statistically similar to the 2012 findings.

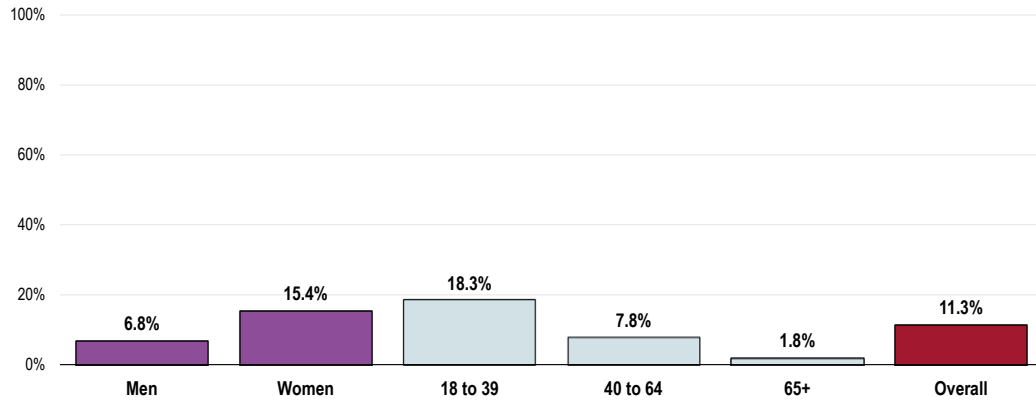
### Perceive Most Days As “Extremely” or “Very” Stressful



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 102]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

- Note that high stress levels are less prevalent among men and older residents (negative correlation with age).

### Perceive Most Days as “Extremely” or “Very” Stressful (EHHS Service Area, 2015)

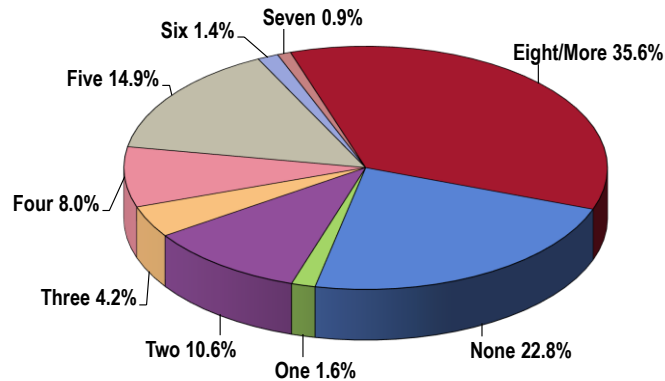


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 102]  
 Notes: • Asked of all respondents.

### Sleep

While 22.8% of survey respondents did not experience any days in the past month on which they did not get enough sleep, the majority (64.9%) reports experiencing 3 or more days in the past month on which they did not get enough rest or sleep.

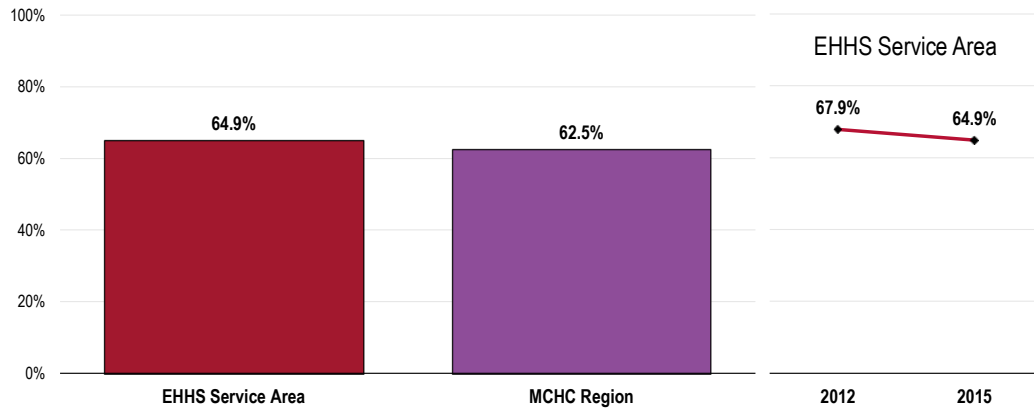
### Number of Days in the Past Month Without Enough Sleep (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 309]  
 Notes: • Asked of all respondents.

- The percentage of Edward Hospital Service Area residents reporting 3 or more days without enough rest or sleep is similar to the MCHC Region.
- TREND: Statistically unchanged from 2012 survey results.

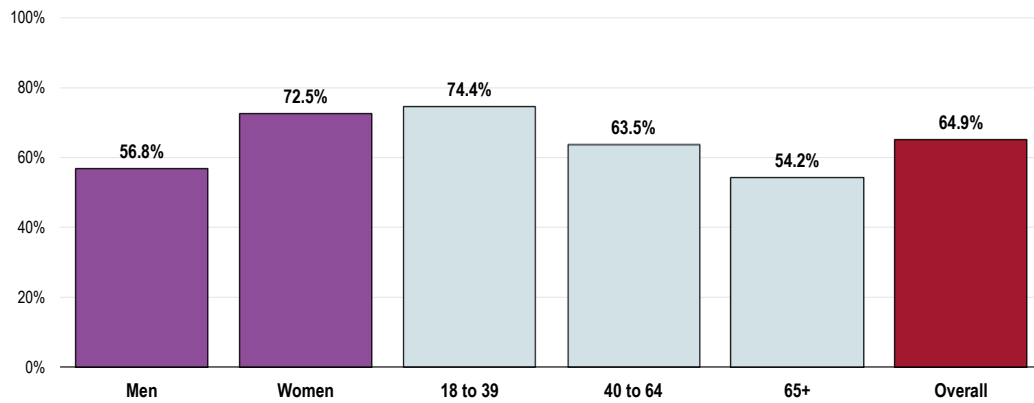
### Had 3+ Days in the Past Month Without Enough Sleep



Sources: ● PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 179]  
 Notes: ● Asked of all respondents.

- Adults more likely to report 3+ days of poor sleep in the past month include women and those under 65 (negative correlation with age).

### Had 3+ Days in the Past Month Without Enough Sleep (EHHS Service Area, 2015)



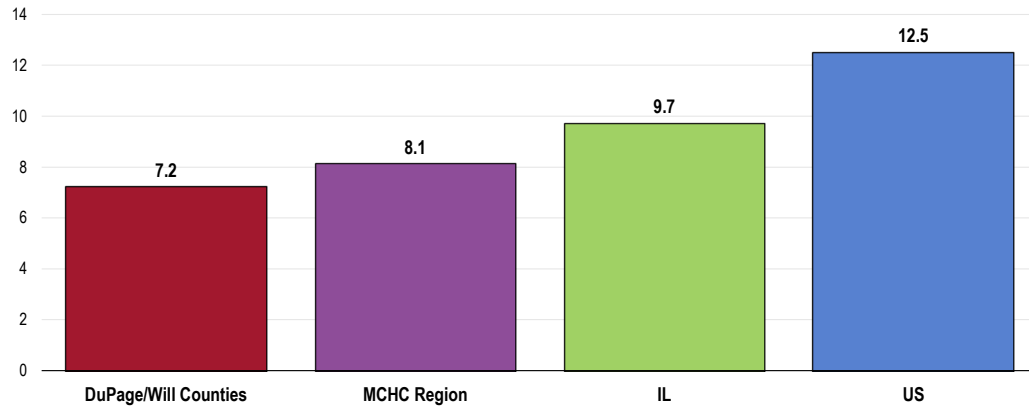
Sources: ● 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 179]  
 Notes: ● Asked of all respondents.

### Suicide

Between 2011 and 2013, there was an annual average age-adjusted suicide rate of 7.2 deaths per 100,000 population in DuPage and Will counties.

- Lower than the regional rate.
- Lower than the statewide rate.
- Lower than the national rate.
- Satisfies the Healthy People 2020 target of 10.2 or lower.

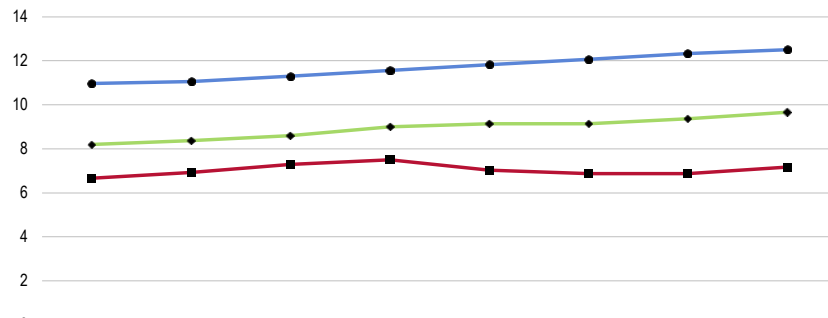
### Suicide: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 10.2 or Lower



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective MHMD-1]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- **TREND:** The area suicide rate has overall trended upward, echoing state and national trends.

### Suicide: Age-Adjusted Mortality Trends (Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 10.2 or Lower



	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013
DuPage/Will Counties	6.7	6.9	7.3	7.5	7.0	6.9	6.9	7.2
Illinois	8.2	8.4	8.6	9.0	9.1	9.1	9.4	9.7
US	11.0	11.1	11.3	11.6	11.8	12.1	12.3	12.5

- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective MHMD-1]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

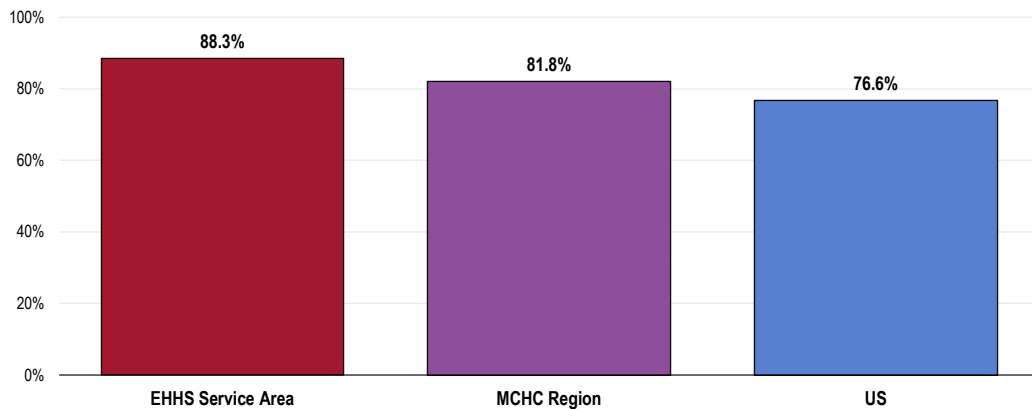
## Mental Health Treatment

Among adults with a diagnosed depressive disorder, 88.3% acknowledge that they have sought professional help for a mental or emotional problem.

- Similar to the MCHC Region.
- More favorable than national findings.

“Diagnosed depressive disorder” includes respondents reporting a past diagnosis of a depressive disorder by a physician (such as depression, major depression, dysthymia, or minor depression).

### Adults With Diagnosed Depression Who Have Ever Sought Professional Help for a Mental or Emotional Problem (Among Adults With Diagnosed Depressive Disorder)

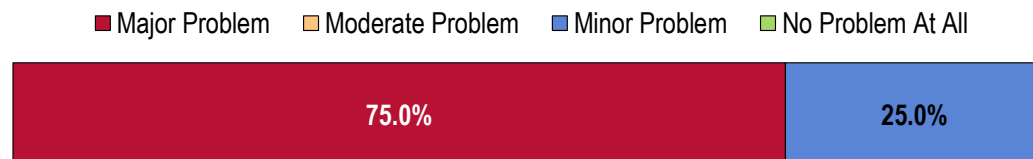


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 123]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Reflects those respondents with a depressive disorder diagnosed by a physician (such as depression, major depression, dysthymia, or minor depression).

## Key Informant Input: Mental Health

Three in four key informants taking part in an online survey characterized *Mental Health* as a “major problem” in the community.

### Perceptions of Mental Health as a Problem in the Community (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.



## CHALLENGES

Among those rating this issue as a “major problem,” the following represent what key informants see as the main challenges for persons with mental illness:

### Co-occurrences

*Anxiety and related disorders, including substance abuse. Ours is a high-achieving, data-driven community demanding excellence of all. Adults set the tone. Most are well-educated striving for success in their careers. These parents also measure their own success by how their children perform. Students feel tremendous pressure to “exceed expectations” academically and athletically. Many adults have experienced the added stress of job loss since the economic crisis in 2008 and many have struggled with economic insecurity since. This has created stress and challenged coping skills. It has forced both parents to work to maintain prior standards of living. As costs outpace income, people worry tremendously about how to keep up and get ahead. Children feel all of this. Regardless of circumstances, they are also still expected to compete and perform, to display the right labels on their shoes, bags and phones. Denial and stigma are the biggest mental health challenges.*

– Community/Business Leader

*The biggest challenge is facing up to the issues in our lives that lead to such results as alcohol and drug abuse, domestic abuse and a whole raft of co-dependent behaviors.*

– Community/Business Leader

### Lack of Resources

*Since the decommissioning of services and hospitals an increasing number of the mentally unwell are also the unhoused and unemployed. Few major providers exist for low income folks who have mental health challenges. Barriers exist for those of moderate and upper level income. Schools still cannot meet the need of students and local practitioners are not well versed at screening or referrals for support.*

– Social Service Representative

*People who are underinsured or uninsured have a very hard time accessing mental health treatment.*

– Social Service Representative

### Stigma

*Understanding that it is a common need, dealing with the stigma. Being able to navigate the health care system and the health care financing systems to access the right care at the right time. Lack of medical provider capacity/comfort in dealing with some of the more routine/less acute mental health concerns in a primary care setting.*

– Public Health Expert

# Death, Disease & Chronic Conditions

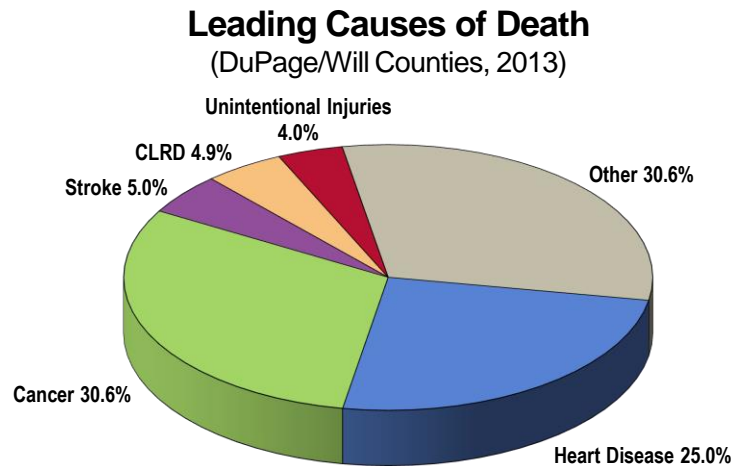


**Professional Research Consultants, Inc.**

## Leading Causes of Death

### Distribution of Deaths by Cause

Together, cardiovascular disease (heart disease and stroke) and cancers accounted for more than one-half of all deaths in DuPage and Will counties in 2013.



- Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
• CLRD is chronic lower respiratory disease.

### Age-Adjusted Death Rates for Selected Causes

In order to compare mortality in the region with other localities (in this case, Illinois and the United States), it is necessary to look at *rates* of death — these are figures which represent the number of deaths in relation to the population size (such as deaths per 100,000 population, as is used here).

Furthermore, in order to compare localities without undue bias toward younger or older populations, the common convention is to adjust the data to some common baseline age distribution. Use of these “age-adjusted” rates provides the most valuable means of gauging mortality against benchmark data, as well as *Healthy People 2020* targets.

The following chart outlines 2011-2013 annual average age-adjusted death rates per 100,000 population for selected causes of death in DuPage and Will counties.

For infant mortality data, see *Birth Outcomes & Risks* in the **Births** section of this report.

**Note that the age-adjusted mortality rate in DuPage and Will counties is worse than the national rate for kidney disease.**

Of the causes outlined in the following chart for which Healthy People 2020 objectives have been established, the rates in DuPage and Will counties are similar to or satisfy all of the related goals.

### Age-Adjusted Death Rates for Selected Causes (2011-2013 Deaths per 100,000 Population)

	DuPage/Will Counties	MCHC Region	Illinois	US	HP2020
Diseases of the Heart	146.8	172.0	173.9	171.3	156.9*
Malignant Neoplasms (Cancers)	157.7	169.2	174.2	166.2	161.4
Cerebrovascular Disease (Stroke)	32.9	35.4	37.7	37.0	34.8
Chronic Lower Respiratory Disease (CLRD)	32.6	31.0	39.3	42.0	n/a
Unintentional Injuries	25.3	25.7	32.9	39.2	36.4
Diabetes Mellitus	13.0	19.3	19.4	21.3	20.5*
Pneumonia/Influenza	15.2	16.6	16.8	15.3	n/a
Alzheimer's Disease	18.8	16.4	20.0	24.0	n/a
Kidney Diseases	14.7	16.2	17.1	13.2	n/a
Drug-Induced	11.0	11.1	12.1	14.1	11.3
Firearm-Related	4.8	9.6	8.8	10.4	9.3
Homicide/Legal Intervention	2.5	8.6	6.3	5.3	5.5
Cirrhosis/Liver Disease	7.2	8.3	8.5	9.9	8.2
Intentional Self-Harm (Suicide)	7.2	8.1	9.7	12.5	10.2
Motor Vehicle Deaths	5.5	5.4	7.9	10.7	12.4
HIV/AIDS	0.8	2.2	1.6	2.2	3.3

Sources: ● CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.

● US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov>.

Note: ● Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population and coded using ICD-10 codes.

● \*The Healthy People 2020 Heart Disease target is adjusted to account for all diseases of the heart; the Diabetes target is adjusted to reflect only diabetes mellitus-coded deaths.

## Cardiovascular Disease

### About Heart Disease & Stroke

Heart disease is the leading cause of death in the United States, with stroke following as the third leading cause. Together, heart disease and stroke are among the most widespread and costly health problems facing the nation today, accounting for more than \$500 billion in healthcare expenditures and related expenses in 2010 alone. Fortunately, they are also among the most preventable.

The leading modifiable (controllable) risk factors for heart disease and stroke are:

- High blood pressure
- High cholesterol
- Cigarette smoking
- Diabetes
- Poor diet and physical inactivity
- Overweight and obesity

The risk of Americans developing and dying from cardiovascular disease would be substantially reduced if major improvements were made across the US population in diet and physical activity, control of high blood pressure and cholesterol, smoking cessation, and appropriate aspirin use.

The burden of cardiovascular disease is disproportionately distributed across the population. There are significant disparities in the following based on gender, age, race/ethnicity, geographic area, and socioeconomic status:

- Prevalence of risk factors
- Access to treatment
- Appropriate and timely treatment
- Treatment outcomes
- Mortality

Disease does not occur in isolation, and cardiovascular disease is no exception. Cardiovascular health is significantly influenced by the physical, social, and political environment, including: maternal and child health; access to educational opportunities; availability of healthy foods, physical education, and extracurricular activities in schools; opportunities for physical activity, including access to safe and walkable communities; access to healthy foods; quality of working conditions and worksite health; availability of community support and resources; and access to affordable, quality healthcare.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

## Age-Adjusted Heart Disease & Stroke Deaths

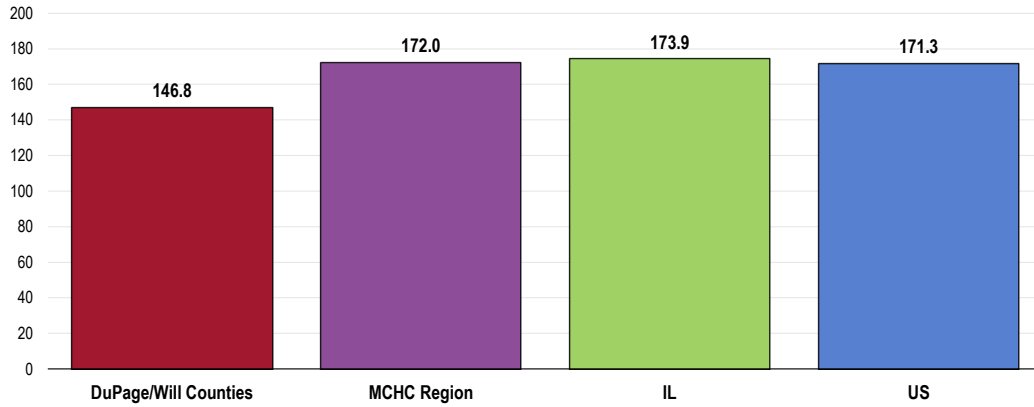
### Heart Disease Deaths

**Between 2011 and 2013 there was an annual average age-adjusted heart disease mortality rate of 146.8 deaths per 100,000 population in DuPage and Will counties.**

- Lower than the MCHC Region.
- Lower than the statewide rate.
- Lower than the national rate.
- Satisfies the Healthy People 2020 target of 156.9 or lower (as adjusted to account for all diseases of the heart).

The greatest share of cardiovascular deaths is attributed to heart disease.

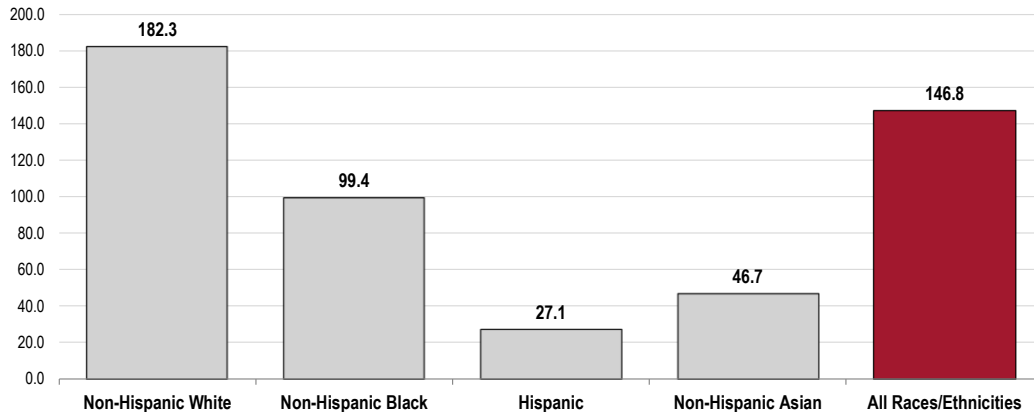
### Heart Disease: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 156.9 or Lower (Adjusted)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-2]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.
  - The Healthy People 2020 Heart Disease target is adjusted to account for all diseases of the heart.

- By race, the heart disease mortality rate is notably higher among Non-Hispanic Whites and among Non-Hispanic Blacks when compared with Non-Hispanic Asians and Hispanics.

### Heart Disease: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 156.9 or Lower (Adjusted)



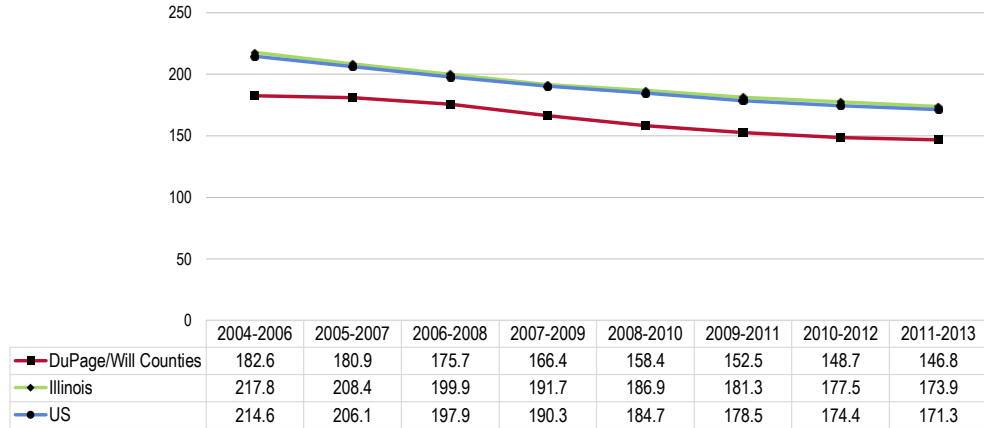
- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-2]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.
  - The Healthy People 2020 Heart Disease target is adjusted to account for all diseases of the heart.

- **TREND:** The heart disease mortality rate has decreased in DuPage and Will counties, echoing the decreasing trends across Illinois and the US overall.

### Heart Disease: Age-Adjusted Mortality Trends

(Annual Average Deaths per 100,000 Population)

**Healthy People 2020 Target = 156.9 or Lower (Adjusted)**



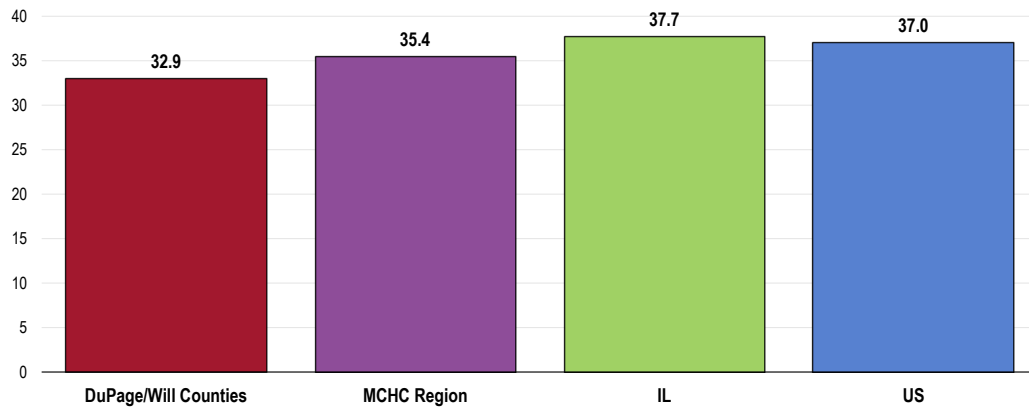
- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-2]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.
  - The Healthy People 2020 Heart Disease target is adjusted to account for all diseases of the heart.

### Stroke Deaths

**Between 2011 and 2013, there was an annual average age-adjusted stroke mortality rate of 32.9 deaths per 100,000 population in DuPage and Will counties.**

- More favorable than the regional rate.
- More favorable than the Illinois rate.
- More favorable than the national rate.
- Satisfies the Healthy People 2020 target of 34.8 or lower.

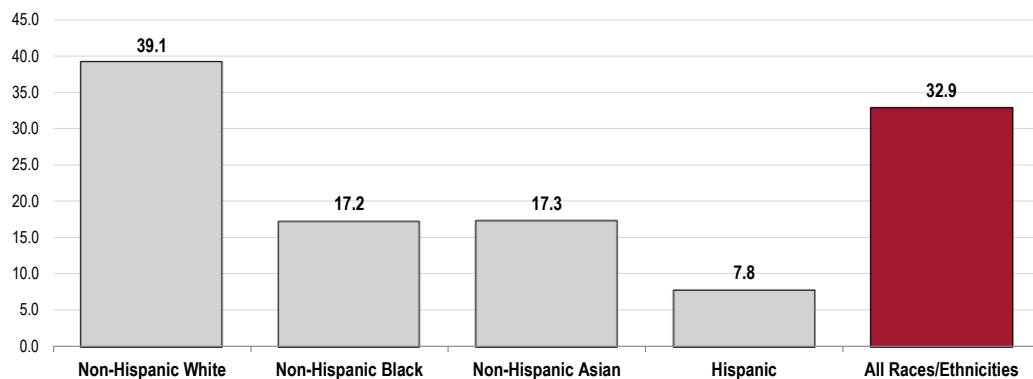
### Stroke: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 34.8 or Lower



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-3]  
 Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 • Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- Stroke mortality is highest in the Non-Hispanic White population, lowest among Hispanics in DuPage and Will counties.

### Stroke: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 34.8 or Lower



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-3]  
 Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 • Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

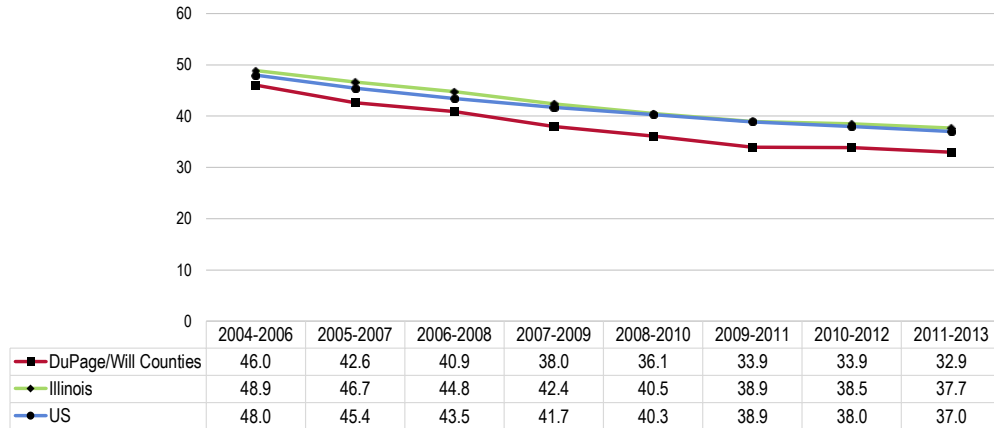
- TREND: The stroke rate has declined in recent years, echoing the trends reported across Illinois and the US overall.



### Stroke: Age-Adjusted Mortality Trends

(Annual Average Deaths per 100,000 Population)

Healthy People 2020 Target = 34.8 or Lower



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-3]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.
  - Local, state and national data are simple three-year averages.

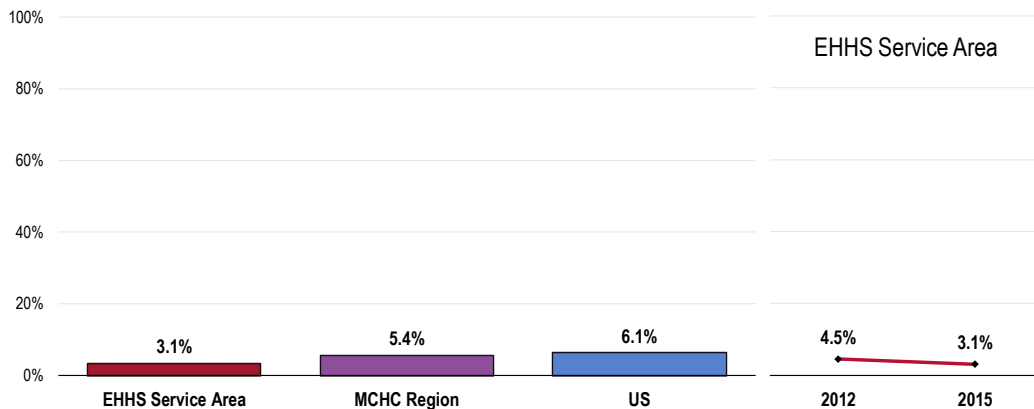
## Prevalence of Heart Disease & Stroke

### Prevalence of Heart Disease

A total of 3.1% of surveyed adults report that they suffer from or have been diagnosed with heart disease, such as coronary heart disease, angina or heart attack.

- Lower than the MCHC Region.
- Lower than the national prevalence.
- TREND: Statistically unchanged since 2012.

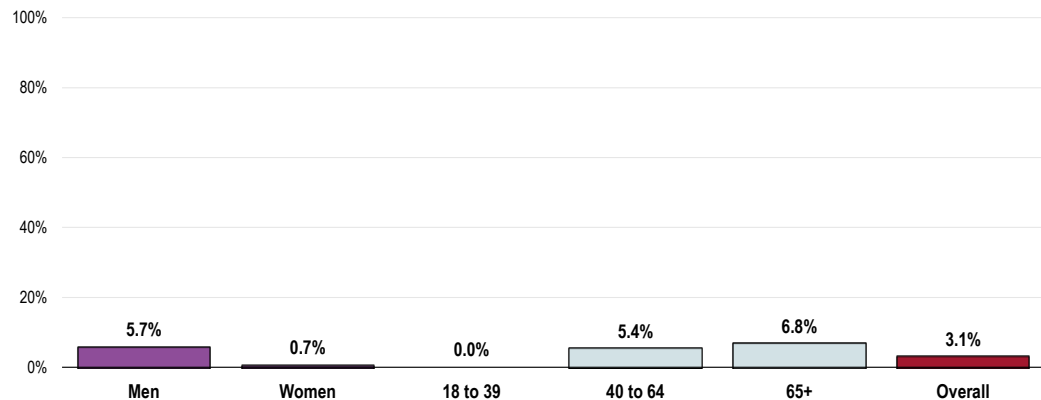
### Prevalence of Heart Disease



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 124]
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
- Notes:
- Asked of all respondents.
  - Includes diagnoses of heart attack, angina or coronary heart disease.

Men and adults 40 and older are more likely to have been diagnosed with chronic heart disease (positive correlation with age).

### Prevalence of Heart Disease (EHHS Service Area, 2015)



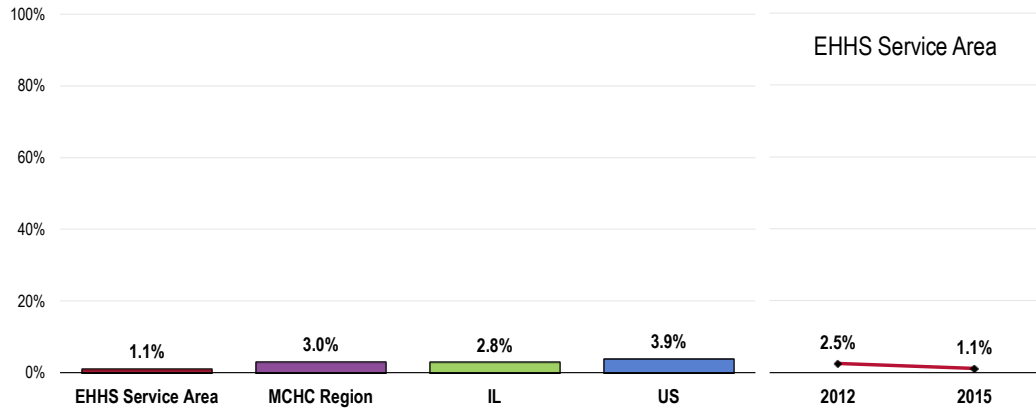
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 124]  
 Notes: • Asked of all respondents.  
 • Includes diagnoses of heart attack, angina or coronary heart disease.

### Prevalence of Stroke

**A total of 1.1% of surveyed adults report that they suffer from or have been diagnosed with cerebrovascular disease (a stroke).**

- Lower than the MCHC Region.
- Lower than statewide findings.
- Lower than national findings.
- TREND: Statistically unchanged since 2012.

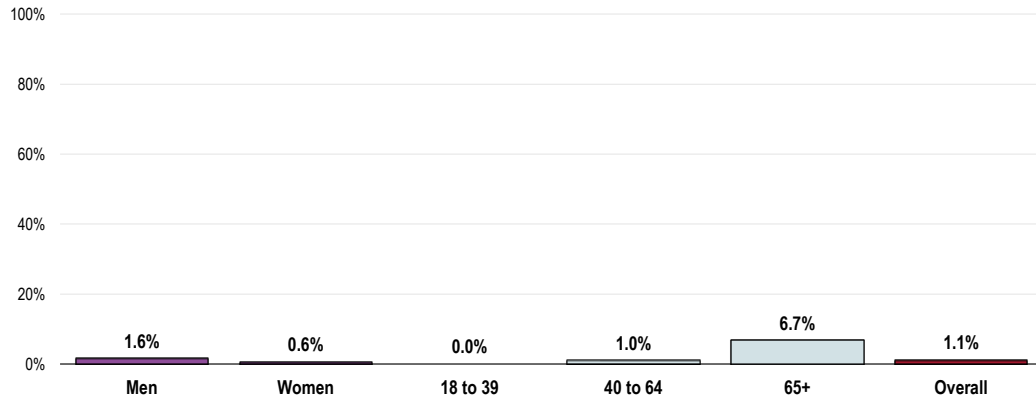
### Prevalence of Stroke



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 36]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.  
 Notes: • Asked of all respondents.

Adults age 40 and older are more likely to have been diagnosed with stroke (note the positive correlation with age).

### Prevalence of Stroke (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 36]  
 Notes: • Asked of all respondents.

## Cardiovascular Risk Factors

### About Cardiovascular Risk

Controlling risk factors for heart disease and stroke remains a challenge. High blood pressure and cholesterol are still major contributors to the national epidemic of cardiovascular disease. High blood pressure affects approximately 1 in 3 adults in the United States, and more than half of Americans with high blood pressure do not have it under control. High sodium intake is a known risk factor for high blood pressure and heart disease, yet about 90% of American adults exceed their recommendation for sodium intake.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Hypertension (High Blood Pressure)

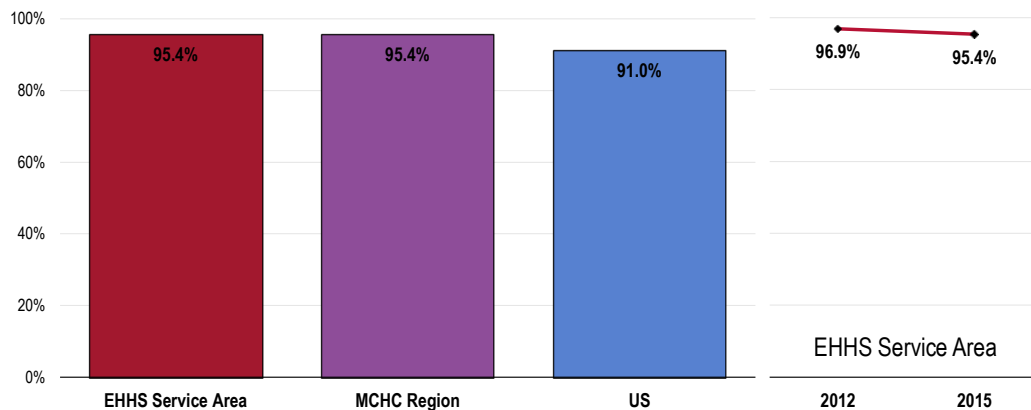
#### High Blood Pressure Testing

**A total of 95.4% of Edward Hospital Service Area adults have had their blood pressure tested within the past two years.**

- Identical to the MCHC Region.
- More favorable than national findings.
- Satisfies the Healthy People 2020 target (92.6% or higher).
- TREND: Statistically unchanged since 2012.

### Have Had Blood Pressure Checked in the Past Two Years

Healthy People 2020 Target = 92.6% or Higher



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 45]
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-4]
- Notes:
- Asked of all respondents.

#### Prevalence of Hypertension

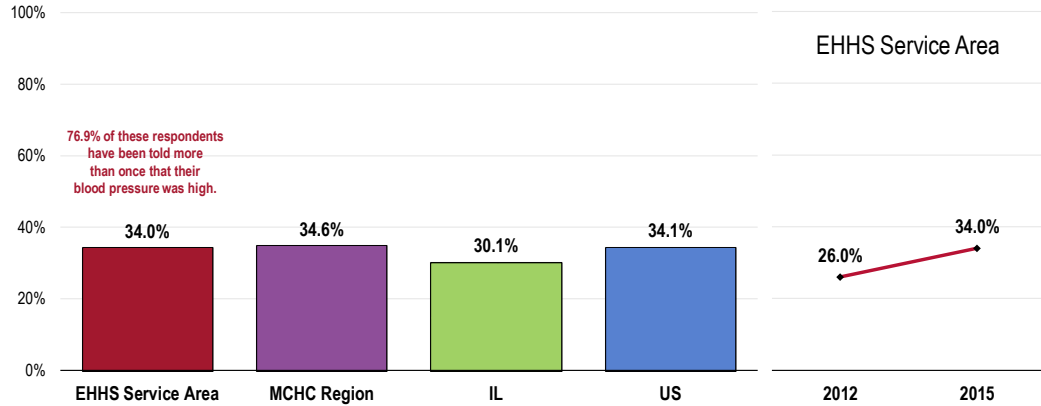
**A total of 34.0% of adults have been told at some point that their blood pressure was high.**

- Similar to the MCHC Region.
- Similar to the Illinois prevalence.

- Similar to the national prevalence.
- Fails to satisfy the Healthy People 2020 target (26.9% or lower).
- TREND: Marks a statistically significant increase over time.
- Among hypertensive adults, 76.9% have been diagnosed with high blood pressure more than once.

### Prevalence of High Blood Pressure

Healthy People 2020 Target = 26.9% or Lower



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 43, 125]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-5.1]

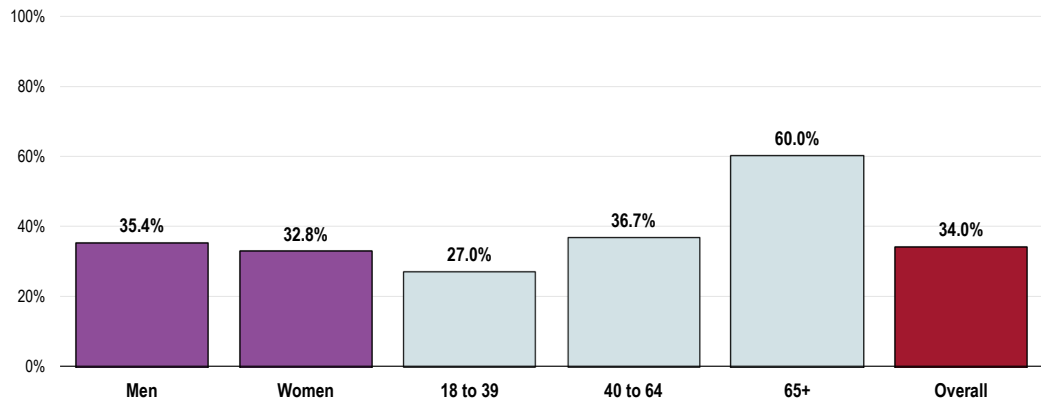
Notes: • Asked of all respondents.

Hypertension diagnoses are higher among adults age 40 and older, and especially those age 65+ (positive correlation).

### Prevalence of High Blood Pressure

(EHHS Service Area, 2015)

Healthy People 2020 Target = 26.9% or Lower



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 125]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-5.1]

Notes: • Asked of all respondents.

**Hypertension Management**

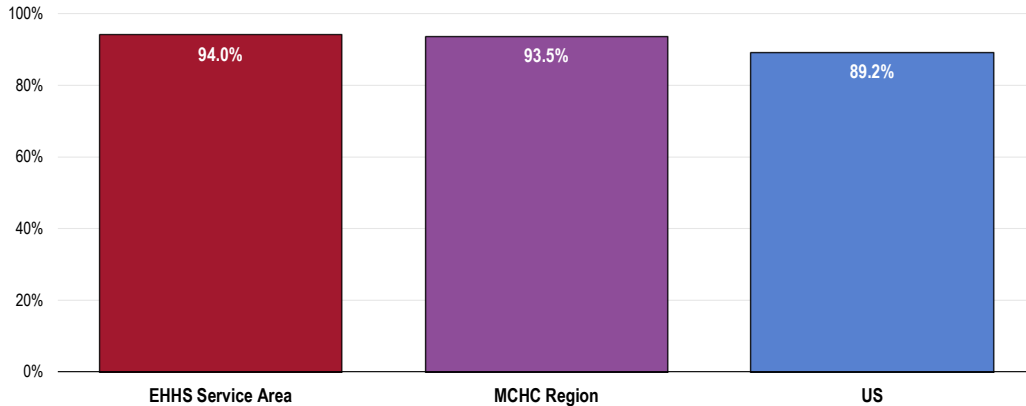
Among respondents who have been told that their blood pressure was high, 94.0% report that they are currently taking actions to control their condition.

- Similar to the MCHC Region.
- Similar to the national findings.

Respondents reporting high blood pressure were further asked:

*“Are you currently taking any action to help control your high blood pressure, such as taking medication, changing your diet, or exercising?”*

**Taking Action to Control Hypertension**  
(Among Adults With High Blood Pressure)



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 44]
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
- Notes:
- Asked of all respondents who have been diagnosed with high blood pressure.
  - In this case, the term “action” refers to medication, change in diet, and/or exercise.

**High Blood Cholesterol**

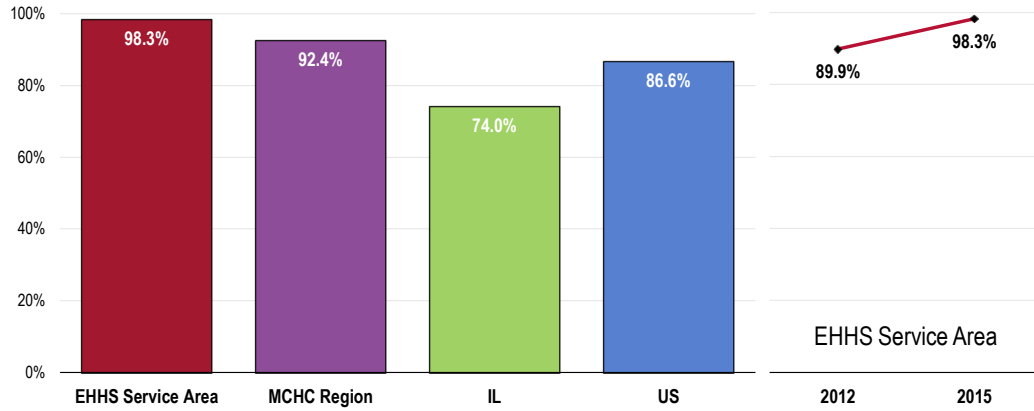
**Blood Cholesterol Testing**

A total of 98.3% of Edward Hospital Service Area adults have had their blood cholesterol checked within the past five years.

- Higher than the MCHC Region.
- Higher than Illinois findings.
- Higher than the national findings.
- Satisfies the Healthy People 2020 target (82.1% or higher).
- TREND: Statistically improved over time.

### Have Had Blood Cholesterol Levels Checked in the Past Five Years

Healthy People 2020 Target = 82.1% or Higher

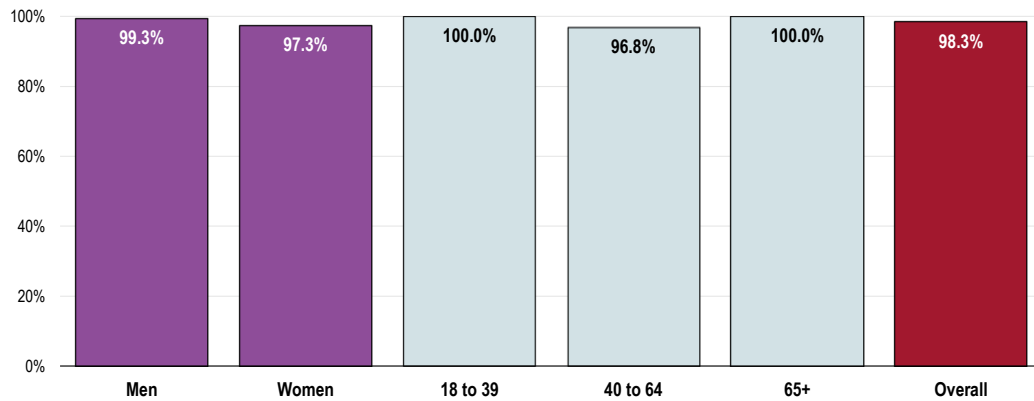


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 48]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-6]  
 Notes: • Asked of all respondents.

Adults between the ages of 40 and 64 report lower screening levels.

### Have Had Blood Cholesterol Levels Checked in the Past Five Years (EHHS Service Area, 2015)

Healthy People 2020 Target = 82.1% or Higher



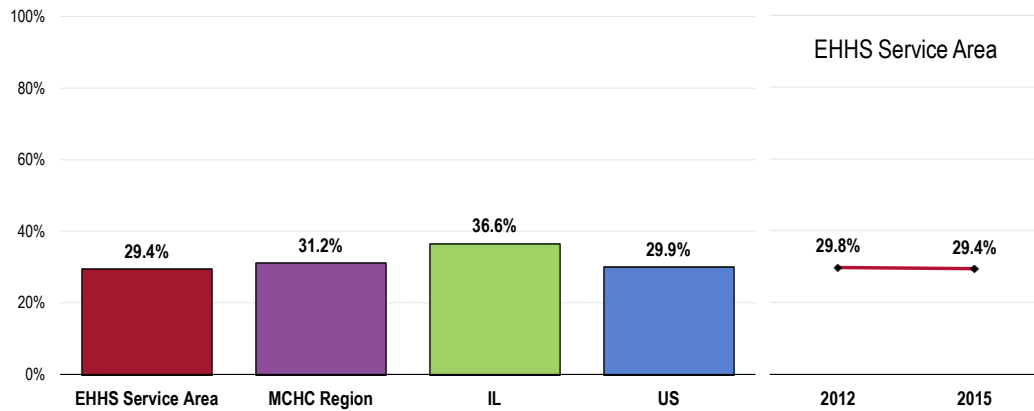
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 48]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-6]  
 Notes: • Asked of all respondents..

**Self-Reported High Blood Cholesterol**

**A total of 29.4% of adults have been told by a health professional that their cholesterol level was high.**

- Similar to the MCHC Region.
- More favorable than the Illinois findings.
- Similar to the national prevalence.
- More than twice the Healthy People 2020 target (13.5% or lower).
- TREND: Statistically unchanged since 2012.

**Prevalence of High Blood Cholesterol**  
 Healthy People 2020 Target = 13.5% or Lower



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 126]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-7]

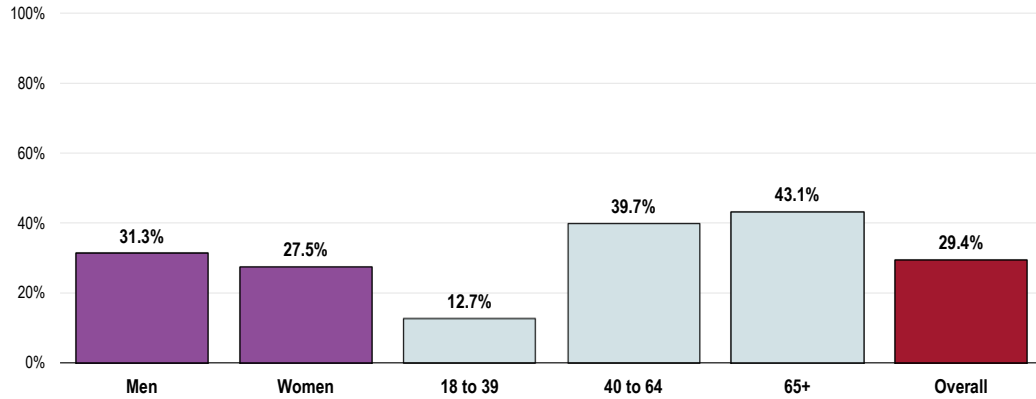
Notes: • Asked of all respondents.  
 • \*The Illinois data reflects those adults who have been tested for high cholesterol and who have been diagnosed with it.

Note that 3.6% of Edward Hospital Service Area adults report not having high blood cholesterol, but: 1) have never had their blood cholesterol levels tested; 2) have not been screened in the past 5 years; or 3) do not recall when their last screening was. For these individuals, current prevalence is unknown.

- Note the positive correlation between age and high blood cholesterol.



## Prevalence of High Blood Cholesterol (EHHS Service Area, 2015) Healthy People 2020 Target = 13.5% or Lower



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 126]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HDS-7]  
 Notes: • Asked of all respondents.

### High Cholesterol Management

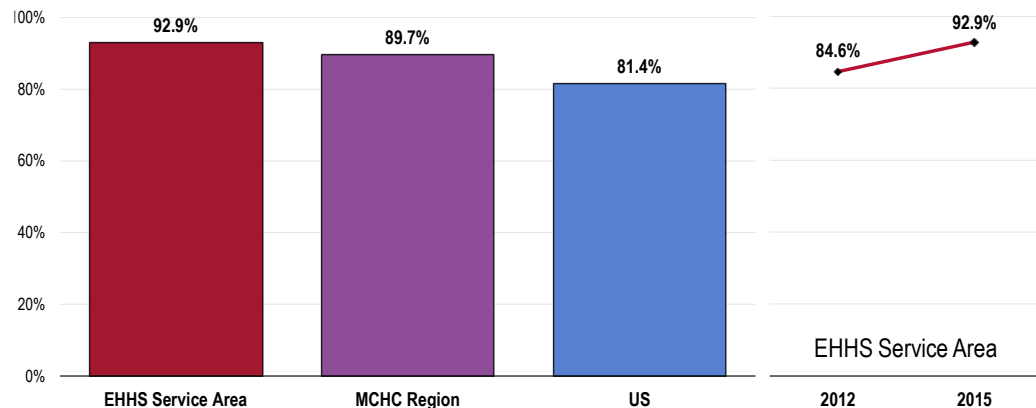
Respondents reporting high cholesterol were further asked:

*“Are you currently taking any action to help control your high cholesterol, such as taking medication, changing your diet, or exercising?”*

**Among adults who have been told that their blood cholesterol was high, 92.9% report that they are currently taking actions to control their cholesterol levels.**

- Similar to the MCHC Region.
- More favorable than found nationwide.
- TREND: The increase since 2012 is not statistically significant.

### Taking Action to Control High Blood Cholesterol Levels (Among Adults With High Cholesterol)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 47]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents who have been diagnosed with high blood cholesterol levels.  
 • In this case, the term “action” refers to medication, change in diet, and/or exercise.

### About Cardiovascular Risk

Individual level risk factors which put people at increased risk for cardiovascular diseases include:

- High Blood Pressure
- High Blood Cholesterol
- Tobacco Use
- Physical Inactivity
- Poor Nutrition
- Overweight/Obesity
- Diabetes

- National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention

Three health-related behaviors contribute markedly to cardiovascular disease:

**Poor nutrition.** People who are overweight have a higher risk for cardiovascular disease. Almost 60% of adults are overweight or obese. To maintain a proper body weight, experts recommend a well-balanced diet which is low in fat and high in fiber, accompanied by regular exercise.

**Lack of physical activity.** People who are not physically active have twice the risk for heart disease of those who are active. More than half of adults do not achieve recommended levels of physical activity.

**Tobacco use.** Smokers have twice the risk for heart attack of nonsmokers. Nearly one-fifth of all deaths from cardiovascular disease, or about 190,000 deaths a year nationally, are smoking-related. Every day, more than 3,000 young people become daily smokers in the US

Modifying these behaviors is critical both for preventing and for controlling cardiovascular disease. Other steps that adults who have cardiovascular disease should take to reduce their risk of death and disability include adhering to treatment for high blood pressure and cholesterol, using aspirin as appropriate, and learning the symptoms of heart attack and stroke.

- National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention

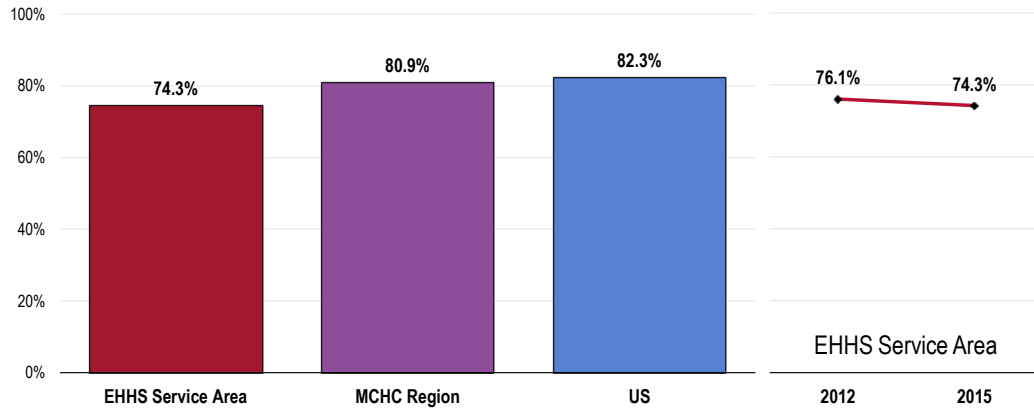
### Total Cardiovascular Risk

**A total of 74.3% of Edward Hospital Service Area adults report one or more cardiovascular risk factors, such as being overweight, smoking cigarettes, being physically inactive, or having high blood pressure or cholesterol.**

- Lower than the MCHC Region.
- Lower than national findings.
- TREND: Statistically similar to the 2012 findings.

RELATED ISSUE:  
See also  
Nutrition &  
Overweight, Physical  
Activity & Fitness and  
Tobacco Use in the  
Modifiable Health  
Risk section of this  
report.

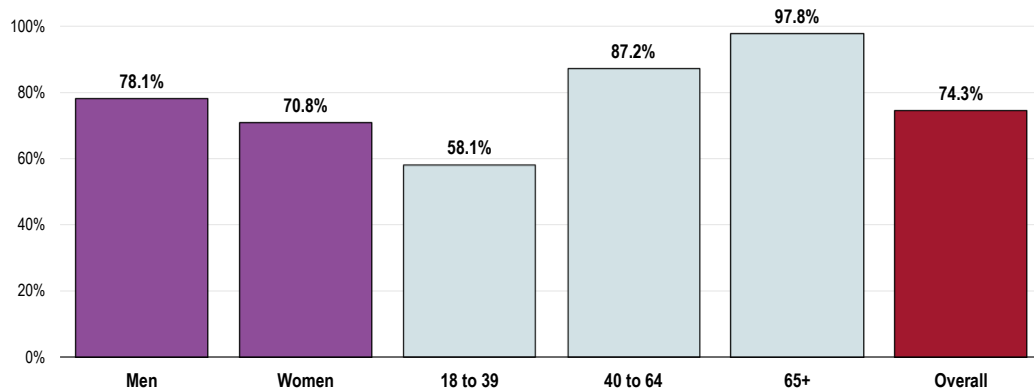
### Present One or More Cardiovascular Risks or Behaviors



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 127]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.  
 • Cardiovascular risk is defined as exhibiting one or more of the following: 1) no leisure-time physical activity; 2) regular/occasional cigarette smoking; 3) hypertension; 4) high blood cholesterol; and/or 5) being overweight/obese.

- Adults age 40 and older are more likely to exhibit cardiovascular risk factors (positive correlation with age).

### Present One or More Cardiovascular Risks or Behaviors (EHHS Service Area, 2015)



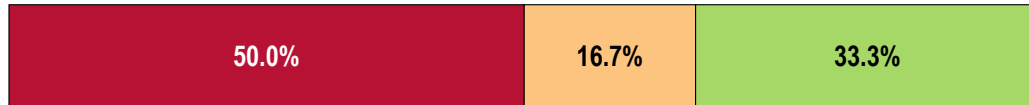
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 127]  
 Notes: • Asked of all respondents.  
 • Cardiovascular risk is defined as exhibiting one or more of the following: 1) no leisure-time physical activity; 2) regular/occasional cigarette smoking; 3) hypertension; 4) high blood cholesterol; and/or 5) being overweight/obese.

### **Key Informant Input: Heart Disease & Stroke**

The greatest share of key informants taking part in an online survey characterized **Heart Disease & Stroke** as a “major problem” in the community.

### **Perceptions of Heart Disease and Stroke as a Problem in the Community** (Key Informants, 2015)

■ Major Problem   ■ Moderate Problem   ■ Minor Problem   ■ No Problem At All



Sources: • 2015 PRC Online Key Informant Survey.

### **TOP CONCERNS**

Among those rating this issue as a “major problem,” reasons frequently related to the following:

#### **Prevalence/Incidence**

*Growing rates of disease prevalence, as well as continued concerns regarding risk behaviors contributing to disease development (except for smoking) in population. – Public Health Expert*

*High incidence. – Social Service Representative*

*We've reached a point demographically where the baby boomers are creating the largest senior population in US history. The elderly population will more than double by the year 2050, with most of that growth occurring between 2010 and 2030. It only stands to reason that health problems, such as heart disease and stroke, will increase. – Community/Business Leader*

## Cancer

### About Cancer

Continued advances in cancer research, detection, and treatment have resulted in a decline in both incidence and death rates for all cancers. Among people who develop cancer, more than half will be alive in five years. Yet, cancer remains a leading cause of death in the United States, second only to heart disease.

Many cancers are preventable by reducing risk factors such as: use of tobacco products; physical inactivity and poor nutrition; obesity; and ultraviolet light exposure. Other cancers can be prevented by getting vaccinated against human papillomavirus and hepatitis B virus. In the past decade, overweight and obesity have emerged as new risk factors for developing certain cancers, including colorectal, breast, uterine corpus (endometrial), and kidney cancers. The impact of the current weight trends on cancer incidence will not be fully known for several decades. Continued focus on preventing weight gain will lead to lower rates of cancer and many chronic diseases.

Screening is effective in identifying some types of cancers (see US Preventive Services Task Force [USPSTF] recommendations), including:

- Breast cancer (using mammography)
  - Cervical cancer (using Pap tests)
  - Colorectal cancer (using fecal occult blood testing, sigmoidoscopy, or colonoscopy)
- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

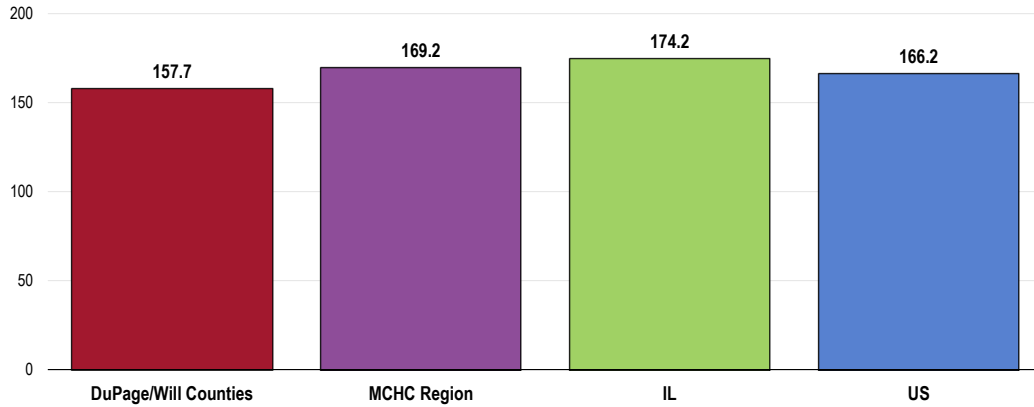
## Age-Adjusted Cancer Deaths

### All Cancer Deaths

**Between 2011 and 2013, there was an annual average age-adjusted cancer mortality rate of 157.7 deaths per 100,000 population in DuPage and Will counties.**

- Lower than the regional rate.
- Lower than the statewide rate.
- Lower than the national rate.
- Similar to the Healthy People 2020 target of 161.4 or lower.

**Cancer: Age-Adjusted Mortality**  
 (2011-2013 Annual Average Deaths per 100,000 Population)  
 Healthy People 2020 Target = 161.4 or Lower



Sources: 

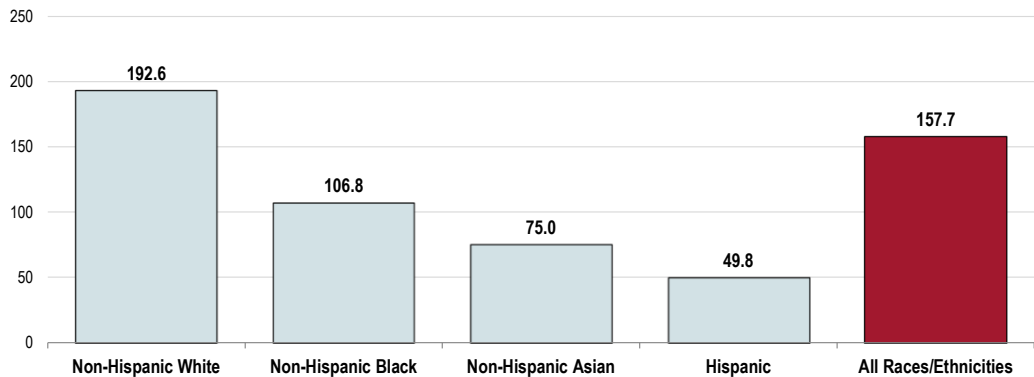
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective C-1]

Notes: 

- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
- Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- The cancer mortality rate is notably higher among Non-Hispanic Whites.

**Cancer: Age-Adjusted Mortality by Race**  
 (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population)  
 Healthy People 2020 Target = 161.4 or Lower



Sources: 

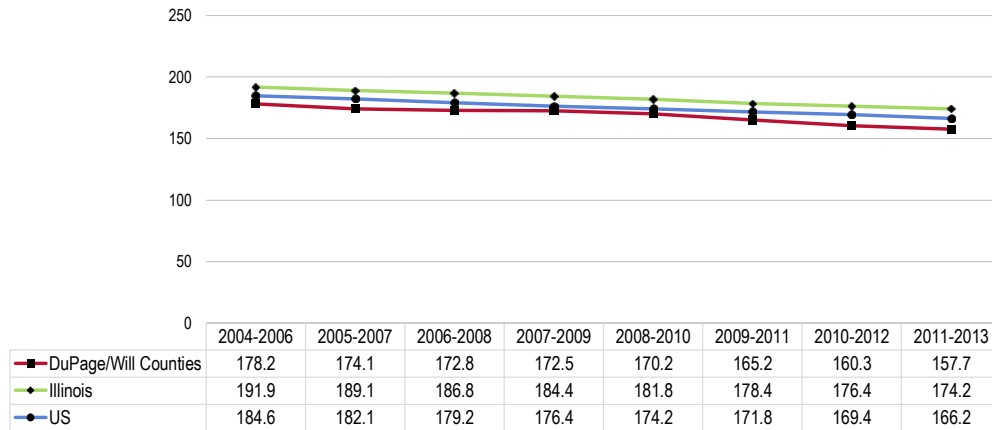
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective C-1]

Notes: 

- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
- Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- TREND: Cancer mortality has decreased over the past decade in DuPage and Will counties; the same trend is apparent both statewide and nationwide.

### Cancer: Age-Adjusted Mortality Trends (Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 161.4 or Lower



Sources: ● CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 ● US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective C-1]  
 Notes: ● Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 ● Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

### Cancer Deaths by Site

**Lung cancer is by far the leading cause of cancer deaths in DuPage and Will counties.**

Other leading sites include breast cancer among women, prostate cancer among men, and colorectal cancer (both genders).

As can be seen in the following chart (referencing 2011-2013 annual average age-adjusted death rates):

- The DuPage/Will counties **lung, prostate, and colorectal cancer** death rates are better than both the state and national rates.
- The DuPage/Will counties **female breast cancer** death rate is similar to the related Illinois and US rates.

Note that while the DuPage/Will counties lung, prostate, and colorectal cancer death rates detailed below satisfy the related Healthy People 2020 targets, the female breast cancer death rate fails to satisfy its target.

## Age-Adjusted Cancer Death Rates by Site

(2011-2013 Annual Average Deaths per 100,000 Population)

	DuPage/Will Counties	MCHC Region	IL	US	HP2020
Lung Cancer	41.0	42.3	47.5	44.7	45.5
Female Breast Cancer	22.0	23.7	22.8	21.3	20.7
Prostate Cancer	18.2	21.9	20.5	19.8	21.8
Colorectal Cancer	13.2	15.8	15.9	14.9	14.5

Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
• US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov>

## Cancer Incidence

Incidence rates reflect the number of newly diagnosed cases in a given population in a given year, regardless of outcome. Here, these rates are also age-adjusted.

“Incidence rate” or “case rate” is the number of new cases of a disease occurring during a given period of time.

It is usually expressed as cases per 100,000 population per year.

**Between 2007 and 2011, DuPage and Will counties had an annual average age-adjusted incidence rate of prostate cancer of 151.6 cases per 100,000 population.**

- Comparable to the regional incidence rate.
- Comparable to the statewide incidence rate.
- Worse than the national incidence rate.

**There was an annual average age-adjusted incidence rate of 136.4 female breast cancer cases per 100,000 in DuPage and Will counties.**

- Worse than the regional incidence rate.
- Worse than the statewide incidence rate.
- Worse than the national incidence rate.

**There was an annual average age-adjusted incidence rate of 65.5 lung cancer cases per 100,000 in DuPage and Will counties.**

- Comparable to the regional incidence rate.
- Better than the statewide incidence rate.
- Comparable to the national incidence rate.



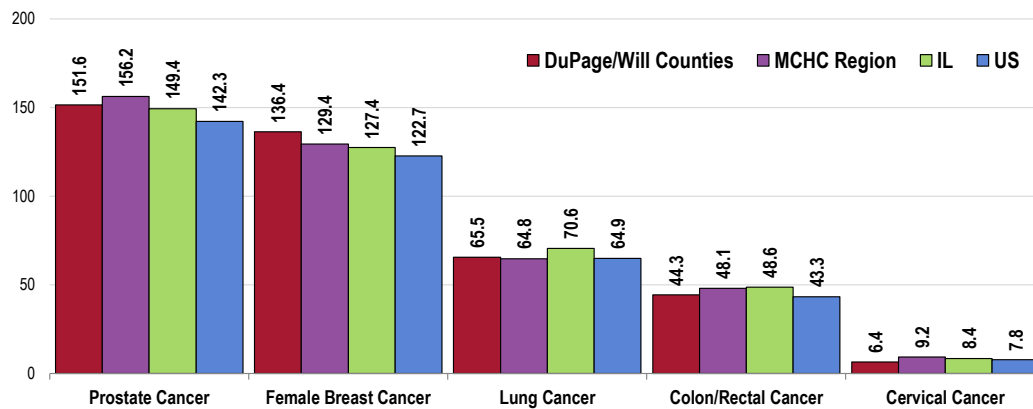
There was an annual average age-adjusted incidence rate of **colorectal cancer** of 44.3 cases per 100,000 in DuPage and Will counties.

- Better than the regional incidence rate.
- Better than the statewide incidence rate.
- Comparable to the national incidence rate.

There was an annual average age-adjusted incidence rate of **cervical cancer** of 6.4 cases per 100,000 in DuPage and Will counties.

- Better than the regional incidence rate.
- Better than the statewide incidence rate.
- Better than the national incidence rate.

**Cancer Incidence Rates by Site**  
(Annual Average Age-Adjusted Incidence per 100,000 Population, 2007-2011)

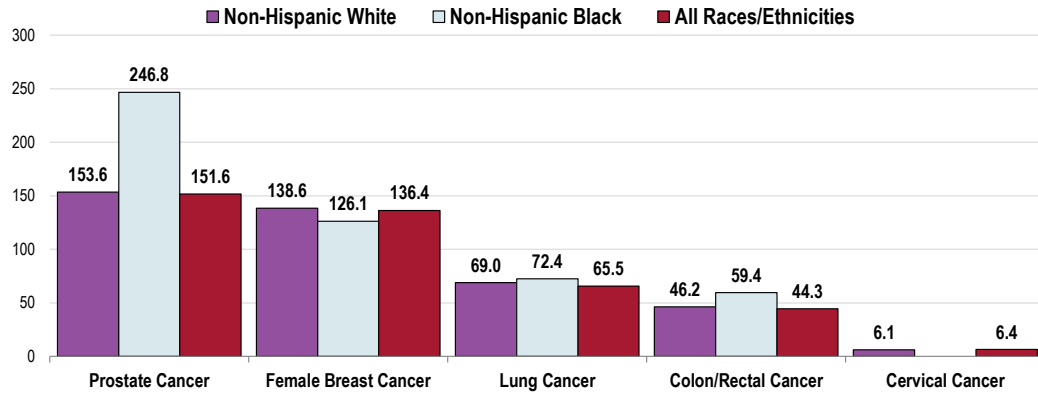


Sources: • State Cancer Profiles: 2007-11.  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.  
 Notes: • This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of cancers, adjusted to 2000 US standard population age groups (under age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

- By available race data, Non-Hispanic Blacks experience notably higher prostate and colon/rectal cancer incidence than Non-Hispanic Whites in DuPage and Will counties.
- In contrast, the female breast cancer incidence rate is higher among Whites in DuPage and Will counties when compared with Blacks.

### Cancer Incidence Rates by Site and Race/Ethnicity

(Annual Average Age-Adjusted Incidence per 100,000 Population, DuPage/Will Counties 2007-2011)



Sources: • State Cancer Profiles: 2007-11.  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.  
 Notes: • This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of cancers, adjusted to 2000 US standard population age groups (under age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

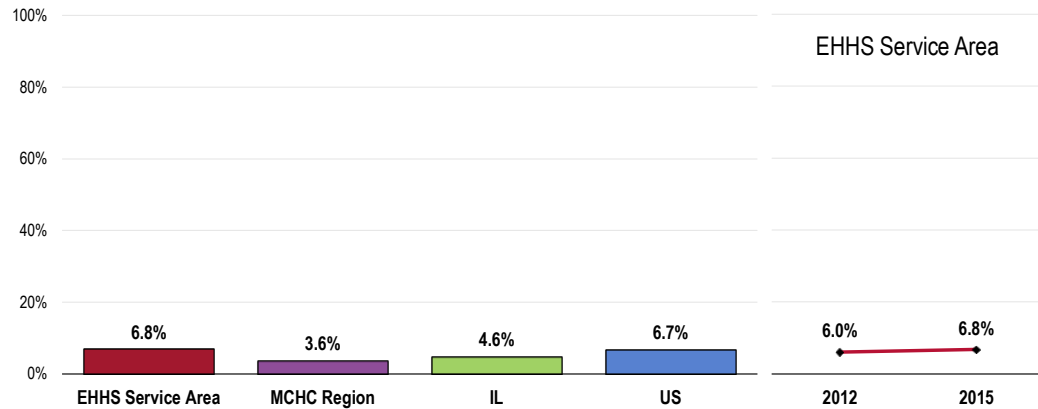
### Prevalence of Cancer

#### Skin Cancer

A total of 6.8% of service area adults report having been diagnosed with skin cancer.

- Worse than the MCHC Region.
- Similar to what is found statewide.
- Similar to the national average.
- TREND: The prevalence of skin cancer has remained statistically unchanged.

### Prevalence of Skin Cancer



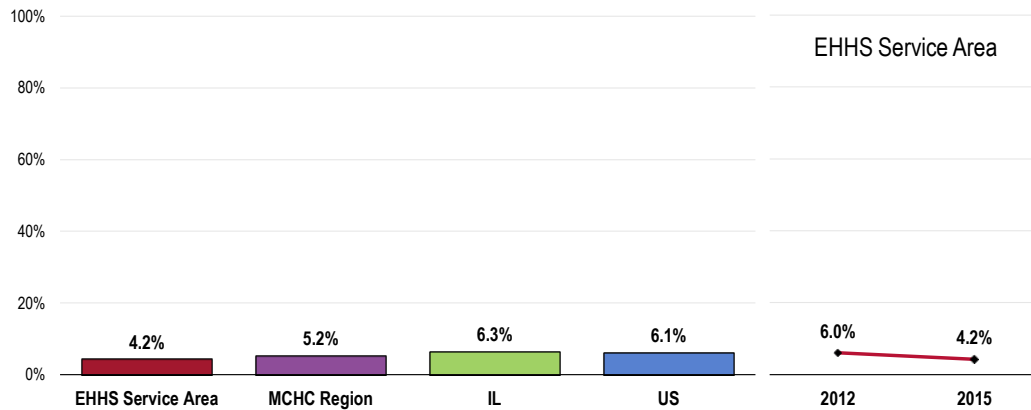
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 31]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

### Other Cancer

A total of 4.2% of respondents have been diagnosed with some type of (non-skin) cancer.

- Similar to the MCHC Region.
- More favorable than the statewide prevalence.
- Similar to the national prevalence.
- TREND: The prevalence of cancer has remained statistically unchanged over time.

### Prevalence of Cancer (Other Than Skin Cancer)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 30]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.

Notes: • Asked of all respondents.

### Cancer Risk

RELATED ISSUE:  
 See also  
*Nutrition & Overweight,  
 Physical Activity &  
 Fitness and Tobacco  
 Use in the Modifiable  
 Health Risk section of  
 this report.*

#### About Cancer Risk

Reducing the nation's cancer burden requires reducing the prevalence of behavioral and environmental factors that increase cancer risk.

- All cancers caused by cigarette smoking could be prevented. At least one-third of cancer deaths that occur in the United States are due to cigarette smoking.
  - According to the American Cancer Society, about one-third of cancer deaths that occur in the United States each year are due to nutrition and physical activity factors, including obesity.
- National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention

## Cancer Screenings

The American Cancer Society recommends that both men and women get a cancer-related checkup during a regular doctor's checkup. It should include examination for cancers of the thyroid, testicles, ovaries, lymph nodes, oral cavity, and skin, as well as health counseling about tobacco, sun exposure, diet and nutrition, risk factors, sexual practices, and environmental and occupational exposures.

Screening levels in the community were measured in the PRC Community Health Survey relative to four cancer sites: prostate cancer; female breast cancer (mammography); cervical cancer (Pap smear testing); and colorectal cancer (sigmoidoscopy and fecal occult blood testing).

### Prostate Cancer Screenings

#### About Screening for Prostate Cancer

The US Preventive Services Task Force (USPSTF) concludes that the current evidence is insufficient to assess the balance of benefits and harms of prostate cancer screening in men younger than age 75 years.

**Rationale:** Prostate cancer is the most common nonskin cancer and the second-leading cause of cancer death in men in the United States. The USPSTF found convincing evidence that prostate-specific antigen (PSA) screening can detect some cases of prostate cancer.

In men younger than age 75 years, the USPSTF found inadequate evidence to determine whether treatment for prostate cancer detected by screening improves health outcomes compared with treatment after clinical detection.

The USPSTF found convincing evidence that treatment for prostate cancer detected by screening causes moderate-to-substantial harms, such as erectile dysfunction, urinary incontinence, bowel dysfunction, and death. These harms are especially important because some men with prostate cancer who are treated would never have developed symptoms related to cancer during their lifetime.

There is also adequate evidence that the screening process produces at least small harms, including pain and discomfort associated with prostate biopsy and psychological effects of false-positive test results.

The USPSTF recommends against screening for prostate cancer in men age 75 years or older.

**Rationale:** In men age 75 years or older, the USPSTF found adequate evidence that the incremental benefits of treatment for prostate cancer detected by screening are small to none.

Given the uncertainties and controversy surrounding prostate cancer screening in men younger than age 75 years, a clinician should not order the PSA test without first discussing with the patient the potential but uncertain benefits and the known harms of prostate cancer screening and treatment. Men should be informed of the gaps in the evidence and should be assisted in considering their personal preferences before deciding whether to be tested.

- US Preventive Services Task Force, Agency for Healthcare Research and Quality, US Department of Health & Human Services

Note that other organizations (e.g., American Cancer Society, American Academy of Family Physicians, American College of Physicians, National Cancer Institute) may have slightly different screening guidelines.

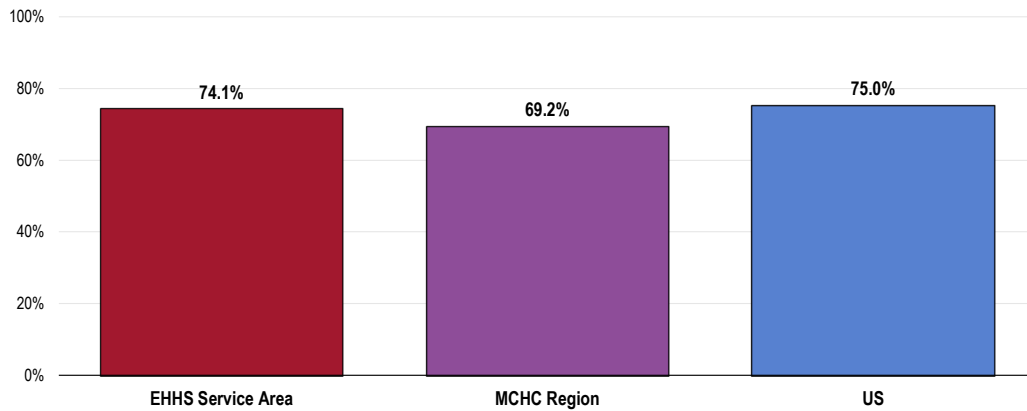
**PSA Testing and/or Digital Rectal Examination**

**Among men age 50 and older, more than 7 in 10 (74.1%) have had a PSA (prostate-specific antigen) test and/or a digital rectal examination for prostate problems within the past two years.**

- Similar to the MCHC Region.
- Similar to national findings.

Note: Since 2008 changes in clinical recommendations against routine PSA testing, most communities are seeing prevalence decline.

**Have Had a Prostate Screening in the Past Two Years**  
(Among Men 50+)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 178]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Reflects male respondents 50+.

## Female Breast Cancer Screening

### About Screening for Breast Cancer

The US Preventive Services Task Force (USPSTF) recommends screening mammography, with or without clinical breast examination (CBE), every 1-2 years for women age 40 and older.

Rationale: The USPSTF found fair evidence that mammography screening every 12-33 months significantly reduces mortality from breast cancer. Evidence is strongest for women age 50-69, the age group generally included in screening trials. For women age 40-49, the evidence that screening mammography reduces mortality from breast cancer is weaker, and the absolute benefit of mammography is smaller, than it is for older women. Most, but not all, studies indicate a mortality benefit for women undergoing mammography at ages 40-49, but the delay in observed benefit in women younger than 50 makes it difficult to determine the incremental benefit of beginning screening at age 40 rather than at age 50.

The absolute benefit is smaller because the incidence of breast cancer is lower among women in their 40s than it is among older women. The USPSTF concluded that the evidence is also generalizable to women age 70 and older (who face a higher absolute risk for breast cancer) if their life expectancy is not compromised by comorbid disease. The absolute probability of benefits of regular mammography increase along a continuum with age, whereas the likelihood of harms from screening (false-positive results and unnecessary anxiety, biopsies, and cost) diminish from ages 40-70. The balance of benefits and potential harms, therefore, grows more favorable as women age. The precise age at which the potential benefits of mammography justify the possible harms is a subjective choice. The USPSTF did not find sufficient evidence to specify the optimal screening interval for women age 40-49.

- US Preventive Services Task Force, Agency for Healthcare Research and Quality, US Department of Health & Human Services

Note that other organizations (e.g., American Cancer Society, American Academy of Family Physicians, American College of Physicians, National Cancer Institute) may have slightly different screening guidelines.

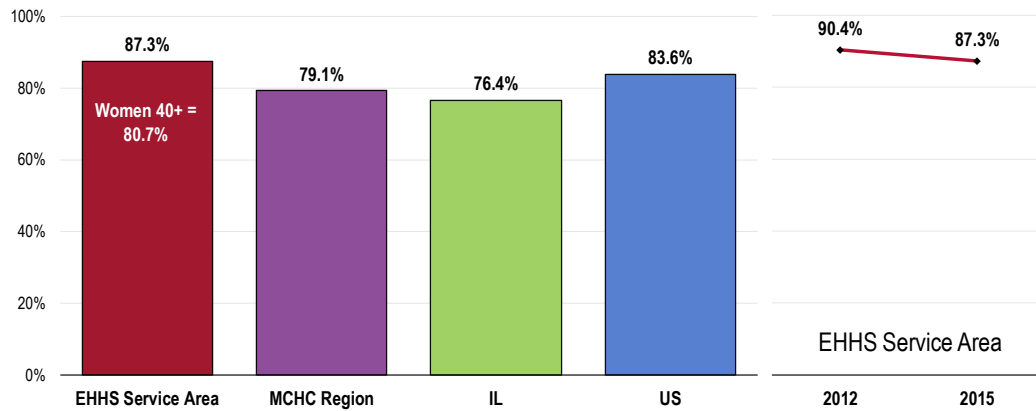
### *Mammography*

**Among women age 50-74, 87.3% have had a mammogram within the past two years.**

- Higher than the MCHC Region.
- Higher than statewide findings (which represent all women 50+).
- Similar to national findings.
- Satisfies the Healthy People 2020 target (81.1% or higher).
- Among women 40+, 80.7% have had a mammogram in the past two years.
- TREND: Statistically unchanged since 2012.

## Have Had a Mammogram in the Past Two Years (Among Women Age 50-74)

Healthy People 2020 Target = 81.1% or Higher



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 128-129]
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2012 Illinois data.
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective C-17]
- Notes:
- Reflects female respondents 50-74.
  - \*Note that state data reflects all women 50 and older (vs. women 50-74 in local, US and Healthy People data).

## Cervical Cancer Screenings

### About Screening for Cervical Cancer

The US Preventive Services Task Force (USPSTF) strongly recommends screening for cervical cancer in women who have been sexually active and have a cervix.

Rationale: The USPSTF found good evidence from multiple observational studies that screening with cervical cytology (Pap smears) reduces incidence of and mortality from cervical cancer. Direct evidence to determine the optimal starting and stopping age and interval for screening is limited. Indirect evidence suggests most of the benefit can be obtained by beginning screening within 3 years of onset of sexual activity or age 21 (whichever comes first) and screening at least every 3 years. The USPSTF concludes that the benefits of screening substantially outweigh potential harms.

The USPSTF recommends against routinely screening women older than age 65 for cervical cancer if they have had adequate recent screening with normal Pap smears and are not otherwise at high risk for cervical cancer.

Rationale: The USPSTF found limited evidence to determine the benefits of continued screening in women older than 65. The yield of screening is low in previously screened women older than 65 due to the declining incidence of high-grade cervical lesions after middle age. There is fair evidence that screening women older than 65 is associated with an increased risk for potential harms, including false-positive results and invasive procedures. The USPSTF concludes that the potential harms of screening are likely to exceed benefits among older women who have had normal results previously and who are not otherwise at high risk for cervical cancer.

The USPSTF recommends against routine Pap smear screening in women who have had a total hysterectomy for benign disease.

Rationale: The USPSTF found fair evidence that the yield of cytologic screening is very low in women after hysterectomy and poor evidence that screening to detect vaginal cancer improves health outcomes. The USPSTF concludes that potential harms of continued screening after hysterectomy are likely to exceed benefits.

- US Preventive Services Task Force, Agency for Healthcare Research and Quality, US Department of Health & Human Services

Note that other organizations (e.g., American Cancer Society, American Academy of Family Physicians, American College of Physicians, National Cancer Institute) may have slightly different screening guidelines.

### *Pap Smear Testing*

**Among women age 21 to 65, 84.7% have had a Pap smear within the past three years.**

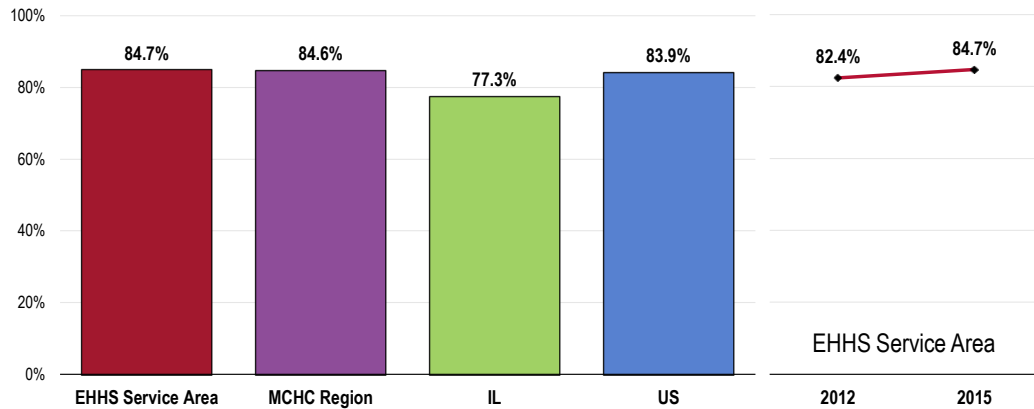
- Similar to the MCHC Region.
- Higher than the Illinois findings (which represents all women 18+).
- Similar to national findings.
- Fails to satisfy the Healthy People 2020 target (93% or higher).
- TREND: Statistically unchanged since 2012.



## Have Had a Pap Smear in the Past Three Years

(Among Women Age 21-65)

Healthy People 2020 Target = 93.0% or Higher



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 130]
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2012 Illinois data.
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective C-15]
- Notes:
- Reflects female respondents age 21 to 65.
  - \*Note that the Illinois percentage represents all women age 18 and older.

## Colorectal Cancer Screenings

### About Screening for Colorectal Cancer

The USPSTF recommends screening for colorectal cancer using fecal occult blood testing, sigmoidoscopy, or colonoscopy in adults, beginning at age 50 years and continuing until age 75 years.

The evidence is convincing that screening for colorectal cancer with fecal occult blood testing, sigmoidoscopy, or colonoscopy detects early-stage cancer and adenomatous polyps. There is convincing evidence that screening with any of the three recommended tests (FOBT, sigmoidoscopy, colonoscopy) reduces colorectal cancer mortality in adults age 50 to 75 years. Follow-up of positive screening test results requires colonoscopy regardless of the screening test used.

- US Preventive Services Task Force, Agency for Healthcare Research and Quality, US Department of Health & Human Services

Note that other organizations (e.g., American Cancer Society, American Academy of Family Physicians, American College of Physicians, National Cancer Institute) may have slightly different screening guidelines.

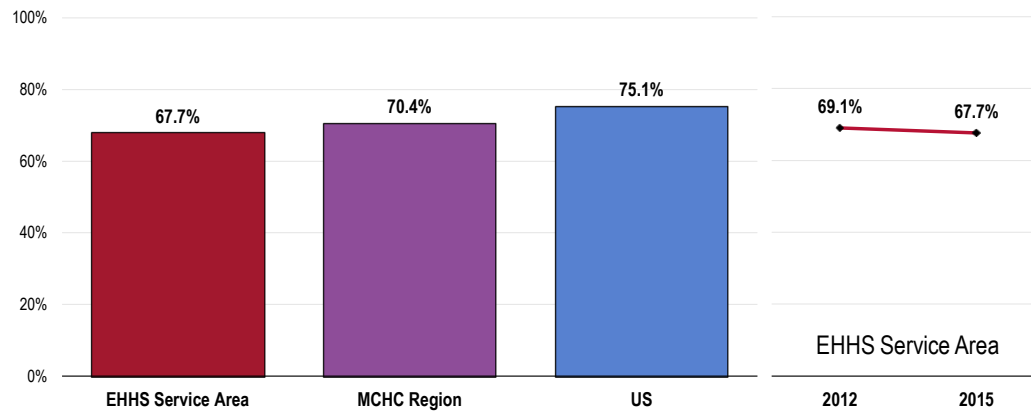
### Colorectal Cancer Screening

**Among adults age 50–75, 67.7% have had an appropriate colorectal cancer screening (fecal occult blood testing within the past year and/or sigmoidoscopy/colonoscopy [lower endoscopy] within the past 10 years).**

- Similar to the MCHC Region.
- Less favorable than national findings.
- Similar to the Healthy People 2020 target (70.5% or higher).
- TREND: Statistically unchanged from 2012 survey findings.

## Have Had a Colorectal Cancer Screening (Among Adults Age 50-75)

Healthy People 2020 Target = 70.5% or Higher



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 133]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective C-16]

Notes: • Asked of all respondents age 50 through 75.  
 • In this case, the term "colorectal screening" refers to adults age 50-75 receiving a FOBT (fecal occult blood test) in the past year and/or a lower endoscopy (sigmoidoscopy/colonoscopy) in the past 10 years.

### Lower Endoscopy

Among adults age 50 and older, more than 7 in 10 (71.8%) have had a lower endoscopy (sigmoidoscopy or colonoscopy) at some point in their lives.

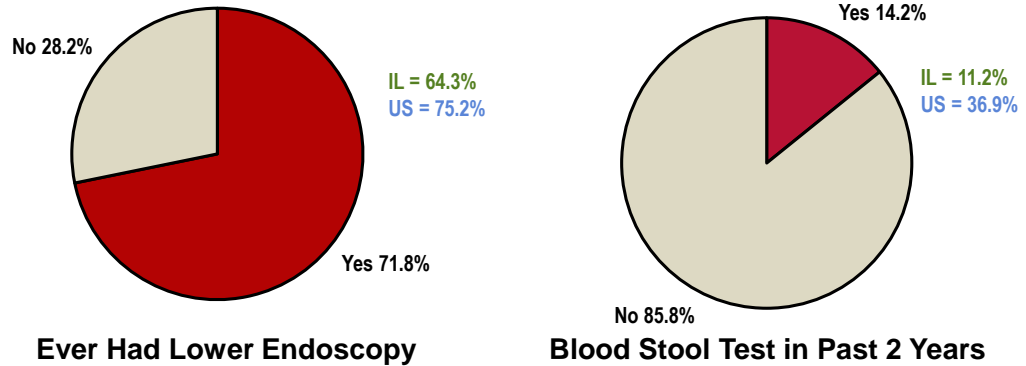
- More favorable than Illinois findings.
- Similar to national findings.

### Blood Stool Testing

Among adults age 50 and older, 14.2% have had a blood stool test (aka "fecal occult blood test") within the past two years.

- Similar to the Illinois findings.
- Lower than national findings.

### Colorectal Cancer Screenings (Among EHHS Service Area Adults Age 50 and Older, 2015)

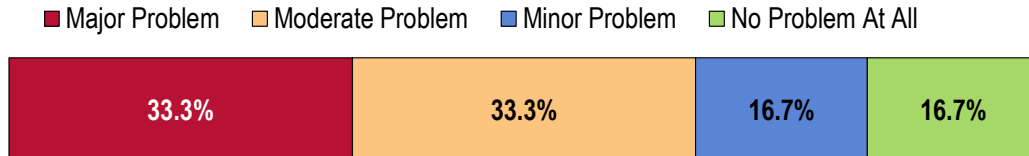


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 131-132]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2012 Illinois data.  
 Notes: • Asked of respondents age 50 and older.  
 • Lower endoscopy includes either sigmoidoscopy or colonoscopy.

### Key Informant Input: Cancer

Key informants taking part in an online survey equally characterized **Cancer** as a “major” and “moderate” problem in the community.

### Perceptions of Cancer as a Problem in the Community (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

### TOP CONCERNS

Among those rating this issue as a “major problem,” reasons frequently related to the following:

#### Prevalence/Incidence

*I'm not saying we don't have the resources to treat people with cancer, thankfully we do, but I do feel that the number of cases is on the rise, due to numerous environmental and personal health issues. – Community/Business Leader*

*We are a breast cancer hot spot and have high incidence of several other cancers. – Social Service Representative*

## Respiratory Disease

### About Asthma & COPD

Asthma and chronic obstructive pulmonary disease (COPD) are significant public health burdens. Specific methods of detection, intervention, and treatment exist that may reduce this burden and promote health.

Asthma is a chronic inflammatory disorder of the airways characterized by episodes of reversible breathing problems due to airway narrowing and obstruction. These episodes can range in severity from mild to life threatening. Symptoms of asthma include wheezing, coughing, chest tightness, and shortness of breath. Daily preventive treatment can prevent symptoms and attacks and enable individuals who have asthma to lead active lives.

COPD is a preventable and treatable disease characterized by airflow limitation that is not fully reversible. The airflow limitation is usually progressive and associated with an abnormal inflammatory response of the lung to noxious particles or gases (typically from exposure to cigarette smoke). Treatment can lessen symptoms and improve quality of life for those with COPD.

The burden of respiratory diseases affects individuals and their families, schools, workplaces, neighborhoods, cities, and states. Because of the cost to the healthcare system, the burden of respiratory diseases also falls on society; it is paid for with higher health insurance rates, lost productivity, and tax dollars. Annual healthcare expenditures for asthma alone are estimated at \$20.7 billion.

**Asthma.** The prevalence of asthma has increased since 1980. However, deaths from asthma have decreased since the mid-1990s. The causes of asthma are an active area of research and involve both genetic and environmental factors.

Risk factors for asthma currently being investigated include:

- Having a parent with asthma
- Sensitization to irritants and allergens
- Respiratory infections in childhood
- Overweight

Asthma affects people of every race, sex, and age. However, significant disparities in asthma morbidity and mortality exist, in particular for low-income and minority populations. Populations with higher rates of asthma include: children; women (among adults) and boys (among children); African Americans; Puerto Ricans; people living in the Northeast United States; people living below the Federal poverty level; and employees with certain exposures in the workplace.

While there is not a cure for asthma yet, there are diagnoses and treatment guidelines that are aimed at ensuring that all people with asthma live full and active lives.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

[NOTE: COPD was changed to chronic lower respiratory disease (CLRD) with the introduction of ICD-10 codes. CLRD is used in vital statistics reporting, but COPD is still widely used and commonly found in surveillance reports.]

## Age-Adjusted Respiratory Disease Deaths

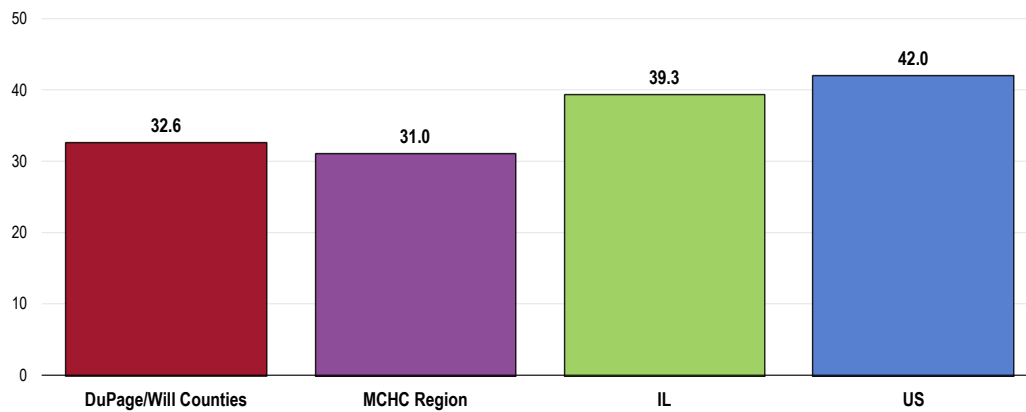
### Chronic Lower Respiratory Disease Deaths (CLRD)

Between 2011 and 2013, there was an annual average age-adjusted CLRD mortality rate of 32.6 deaths per 100,000 population in DuPage/Will counties.

- Similar to the MCHC Region.
- Lower than found statewide.
- Lower than the national rate.

Note: COPD was changed to chronic lower respiratory disease (CLRD) in 1999 with the introduction of ICD-10 codes. CLRD is used in vital statistics reporting, but COPD is still widely used and commonly found in surveillance reports.

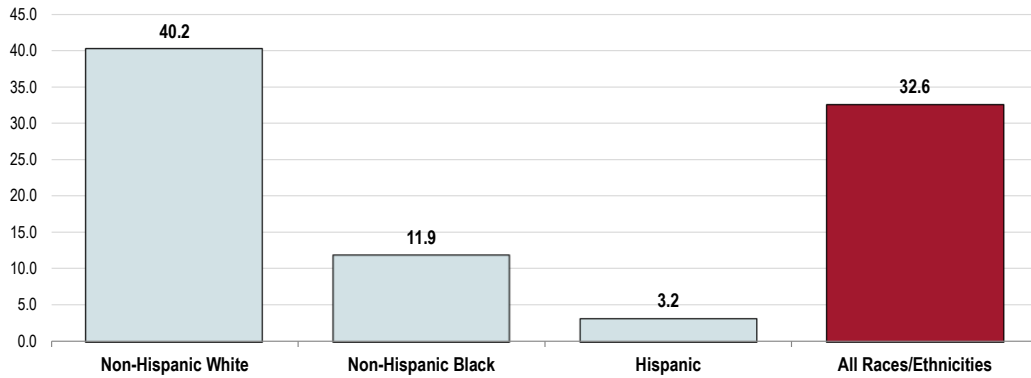
**CLRD: Age-Adjusted Mortality**  
(2011-2013 Annual Average Deaths per 100,000 Population)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.
  - CLRD is chronic lower respiratory disease.

- CLRD mortality is notably higher among Non-Hispanic Whites in DuPage and Will counties.

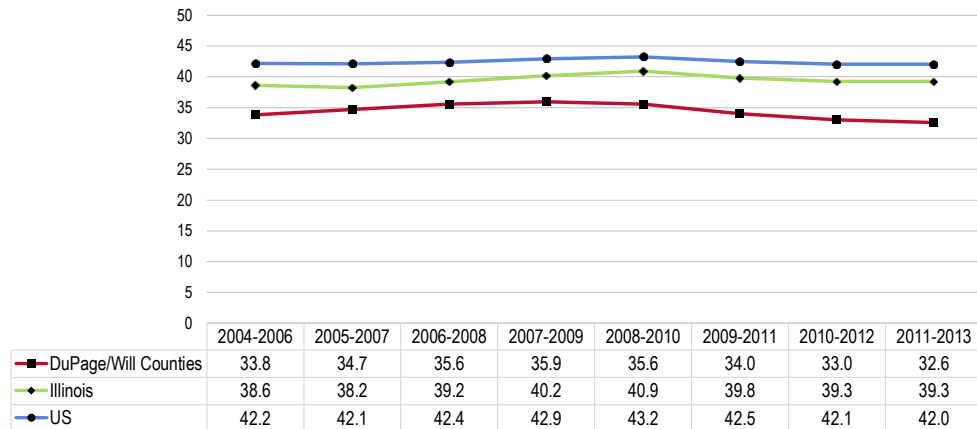
### CLRD: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.
  - CLRD is chronic lower respiratory disease.

- TREND: CLRD mortality has been largely stable over the past decade.

### CLRD: Age-Adjusted Mortality Trends (Annual Average Deaths per 100,000 Population)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.
  - CLRD is chronic lower respiratory disease.

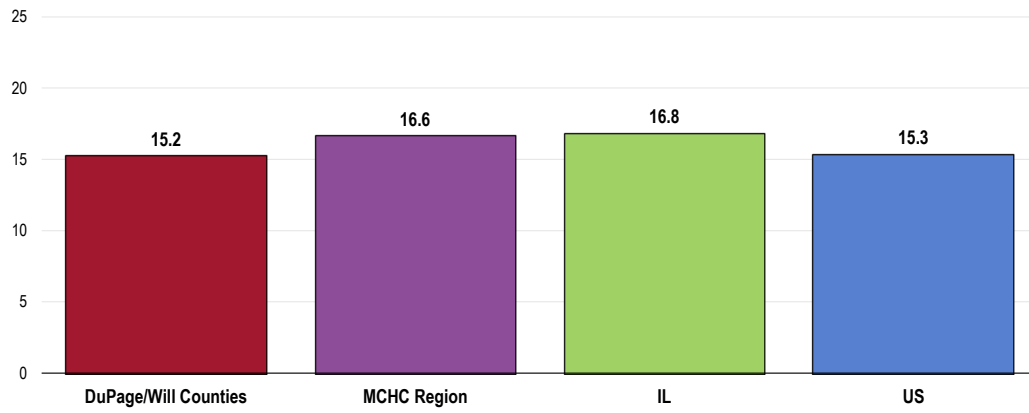
### Pneumonia/Influenza Deaths

Between 2011 and 2013, there was an annual average age-adjusted pneumonia influenza mortality rate of 15.2 deaths per 100,000 population in DuPage/Will counties.

- Lower than the MCHC Region.
- Lower than that found statewide.
- Comparable to the national rate.

For prevalence of vaccinations for pneumonia and influenza, see also *Immunization & Infectious Disease*.

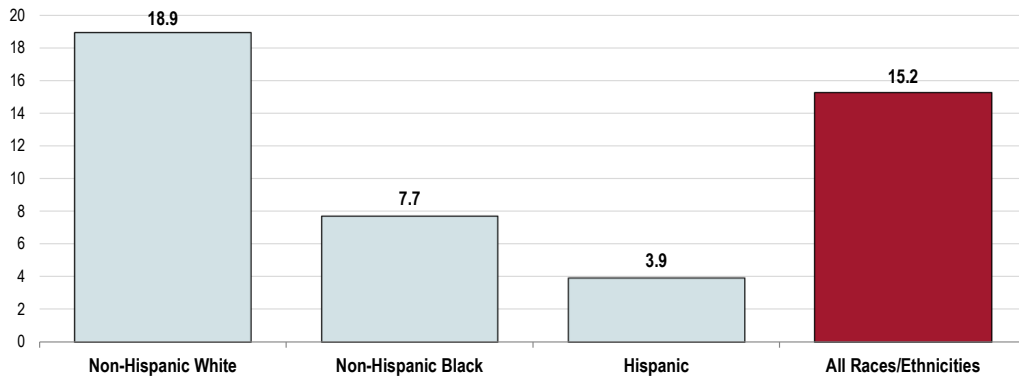
### Pneumonia/Influenza: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population)



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 • Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- The pneumonia/influenza mortality rate in DuPage/Will counties is highest among Whites.

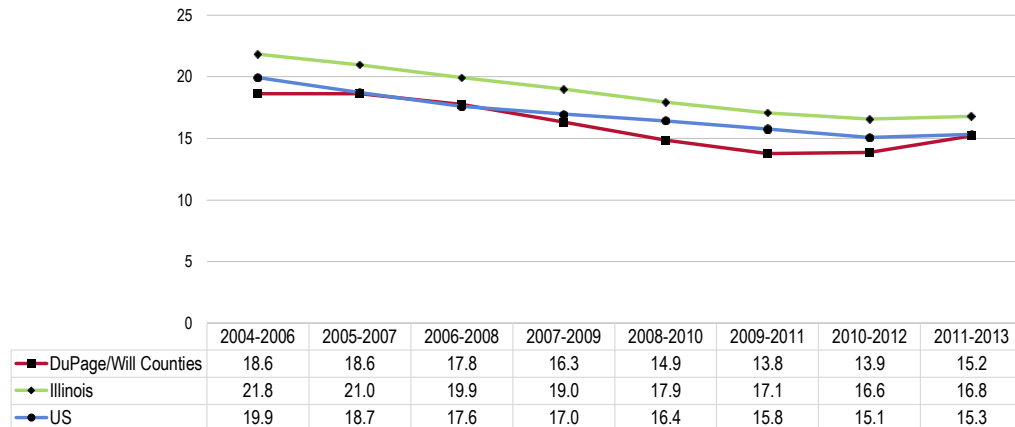
### Pneumonia/Influenza: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population)



- Sources: ● CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes: ● Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
● Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- **TREND:** Area pneumonia/influenza mortality has decreased over time, echoing the state and national trends.

### Pneumonia/Influenza: Age-Adjusted Mortality Trends (Annual Average Deaths per 100,000 Population)



- Sources: ● CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes: ● Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
● Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

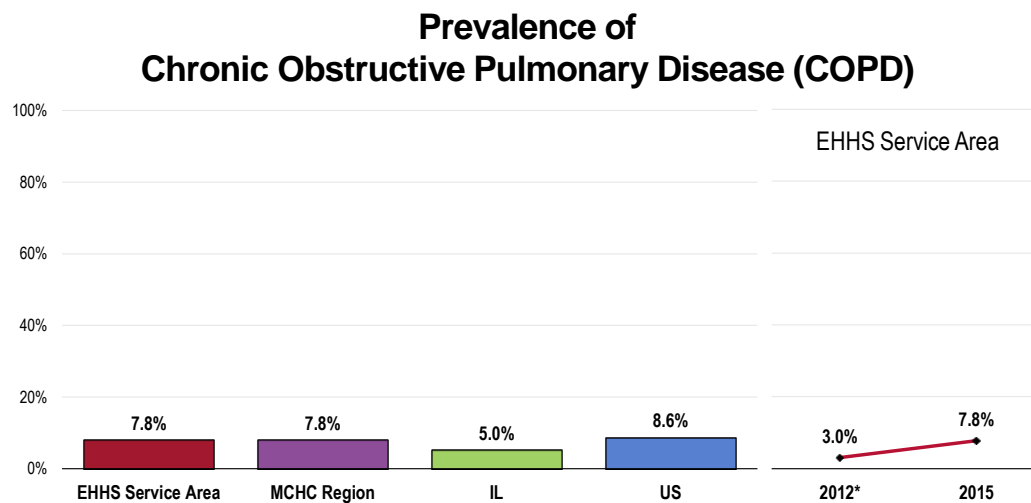


## Chronic Obstructive Pulmonary Disease (COPD)

Survey respondents were next asked to indicate whether they suffer from or have been diagnosed with various respiratory conditions, including asthma and COPD.

**A total of 7.8% of Edward Hospital Service Area adults suffer from chronic obstructive pulmonary disease (COPD, including emphysema and bronchitis).**

- Similar to the MCHC Region.
- Higher than the state prevalence.
- Similar to the national prevalence.
- NOTE: In prior data, this question was asked slightly differently; respondents in 2012 were asked if they had ever been diagnosed with “chronic lung disease, including bronchitis or emphysema,” rather than “COPD or chronic obstructive pulmonary disease, including bronchitis or emphysema” as is asked currently.
- TREND: In comparing to 2012 data, the change in prevalence increased significantly.



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 25]
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
- Notes:
- Asked of all respondents.
  - Includes those having ever suffered from or been diagnosed with COPD or chronic obstructive pulmonary disease, including bronchitis or emphysema.
  - \*In prior data, the term “chronic lung disease” was used, which also included bronchitis or emphysema.

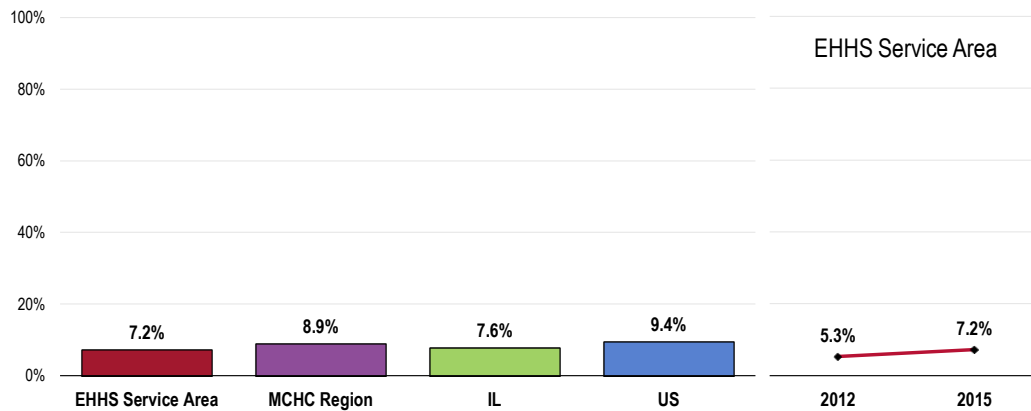
## Asthma

### Adults

**A total of 7.2% of Edward Hospital Service Area adults currently suffer from asthma.**

- Similar to the MCHC Region.
- Similar to the statewide prevalence.
- Similar to the national prevalence.
- TREND: The prevalence of adults with asthma has not changed significantly since 2012.

### Adult Asthma: Current Prevalence

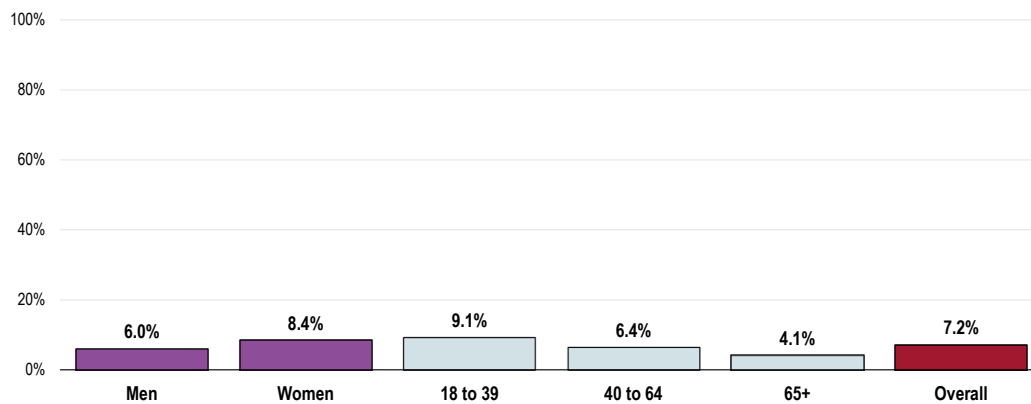


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 134]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.

Notes: • Asked of all respondents.  
 • Includes those who have ever been diagnosed with asthma, and who report that they still have asthma.

The prevalence of adult asthma does not differ significantly by demographic characteristics.

### Currently Have Asthma (EHHS Service Area, 2015)



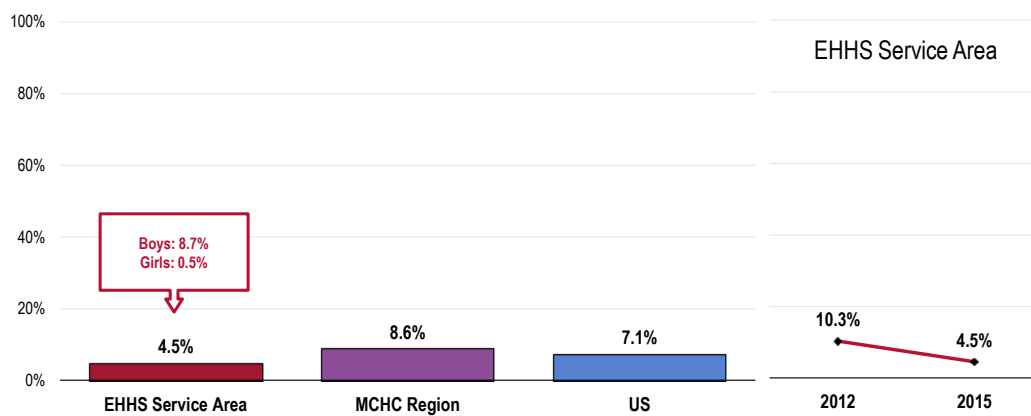
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 134]  
 Notes: • Asked of all respondents.

**Children**

**Among Edward Hospital Service Area children under age 18, 4.5% currently have asthma.**

- Lower than the MCHC Region.
- Similar to national findings.
- TREND: The decrease since 2012 is not statistically significant.
- Note that boys are more likely to have asthma.

**Childhood Asthma: Current Prevalence**  
(Among Parents of Children Age 0-17)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 135]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents with children 0 to 17 in the household.  
 • Includes children who have ever been diagnosed with asthma, and whom are reported to still have asthma.

### ***Key Informant Input: Respiratory Disease***

Equal shares of key informants taking part in an online survey characterized *Respiratory Disease* as a “moderate” or “minor” problem in the community.

### **Perceptions of Respiratory Diseases as a Problem in the Community**

(Key Informants, 2015)

■ Major Problem   ■ Moderate Problem   ■ Minor Problem   ■ No Problem At All



Sources: • 2015 PRC Online Key Informant Survey.

### **TOP CONCERNS**

#### ***Environmental Pollutants***

*Environmental pollutants are a huge underlying cause of many conditions, from COPD to hyper-allergic conditions to autism, which is skyrocketing. – Community/Business Leader*

## Injury & Violence

### About Injury & Violence

Injuries and violence are widespread in society. Both unintentional injuries and those caused by acts of violence are among the top 15 killers for Americans of all ages. Many people accept them as “accidents,” “acts of fate,” or as “part of life.” However, most events resulting in injury, disability, or death are predictable and preventable.

Injuries are the leading cause of death for Americans ages 1 to 44, and a leading cause of disability for all ages, regardless of sex, race/ethnicity, or socioeconomic status. More than 180,000 people die from injuries each year, and approximately 1 in 10 sustains a nonfatal injury serious enough to be treated in a hospital emergency department.

Beyond their immediate health consequences, injuries and violence have a significant impact on the well-being of Americans by contributing to:

- Premature death
- Disability
- Poor mental health
- High medical costs
- Lost productivity

The effects of injuries and violence extend beyond the injured person or victim of violence to family members, friends, coworkers, employers, and communities.

Numerous factors can affect the risk of unintentional injury and violence, including individual behaviors, physical environment, access to health services (ranging from pre-hospital and acute care to rehabilitation), and social environment (from parental monitoring and supervision of youth to peer group associations, neighborhoods, and communities).

Interventions addressing these social and physical factors have the potential to prevent unintentional injuries and violence. Efforts to prevent unintentional injury may focus on:

- Modifications of the environment
- Improvements in product safety
- Legislation and enforcement
- Education and behavior change
- Technology and engineering

Efforts to prevent violence may focus on:

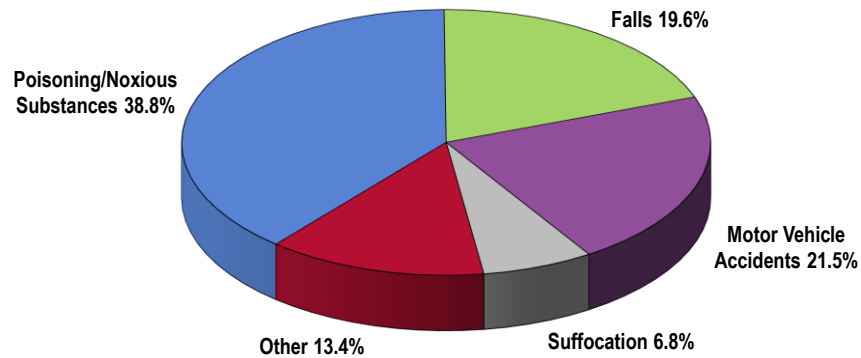
- Changing social norms about the acceptability of violence
- Improving problem-solving skills (for example, parenting, conflict resolution, coping)
- Changing policies to address the social and economic conditions that often give rise to violence

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

## Leading Causes of Accidental Death

Poisoning (including accidental drug overdose), falls, motor vehicle accidents, and suffocation accounted for most accidental deaths in DuPage and Will counties in 2013.

### Leading Causes of Accidental Death (DuPage/Will Counties, 2013)



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).

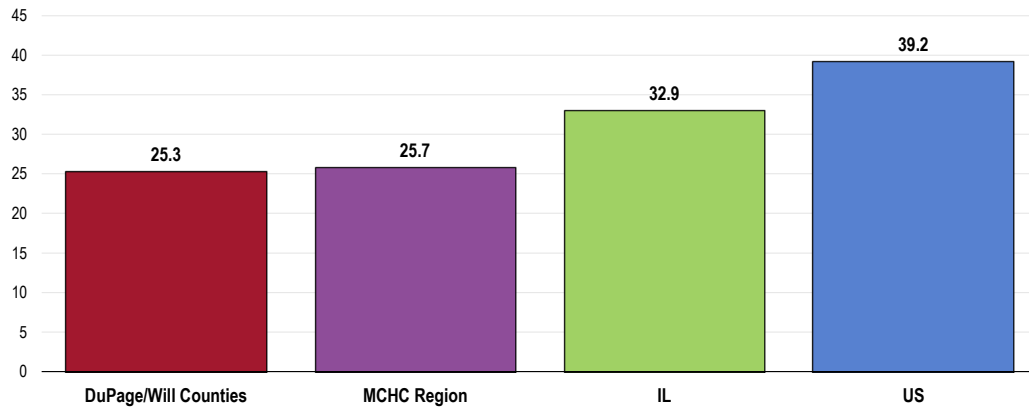
## Unintentional Injury

### Age-Adjusted Unintentional Injury Deaths

Between 2011 and 2013, there was an annual average age-adjusted unintentional injury mortality rate of 25.3 deaths per 100,000 population in DuPage/Will counties.

- Comparable to the MCHC Region.
- More favorable than the Illinois rate.
- More favorable than the national rate.
- Satisfies the Healthy People 2020 target (36.4 or lower).

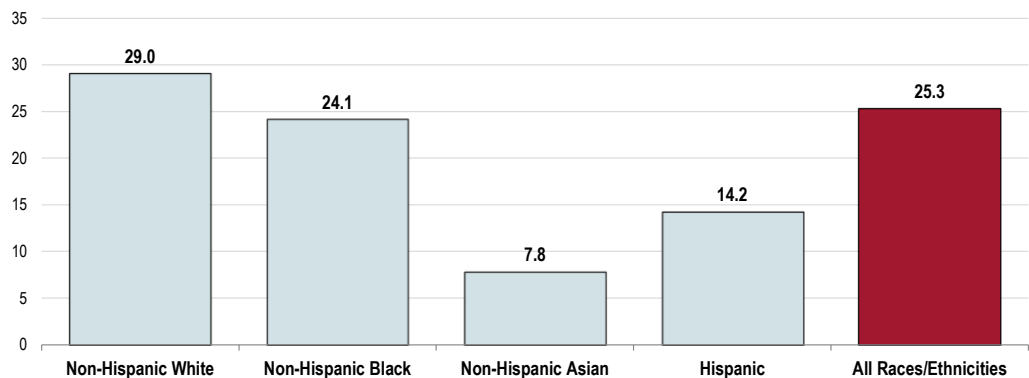
### Unintentional Injuries: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 36.4 or Lower



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-11]  
 Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 • Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- The mortality rate is notably higher among Whites and Blacks when compared with Asians and Hispanics in DuPage and Will counties.

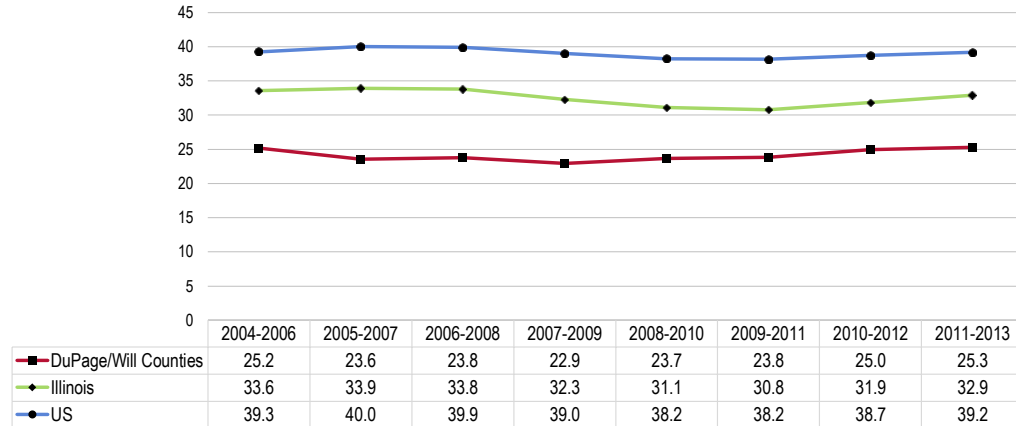
### Unintentional Injuries: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 36.4 or Lower



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-11]  
 Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 • Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- TREND: The unintentional injury mortality rate has remained steady in DuPage and Will counties.

**Unintentional Injuries: Age-Adjusted Mortality Trends**  
 (Annual Average Deaths per 100,000 Population)  
**Healthy People 2020 Target = 36.4 or Lower**



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-11]  
 Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 • Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

**Motor Vehicle Safety**

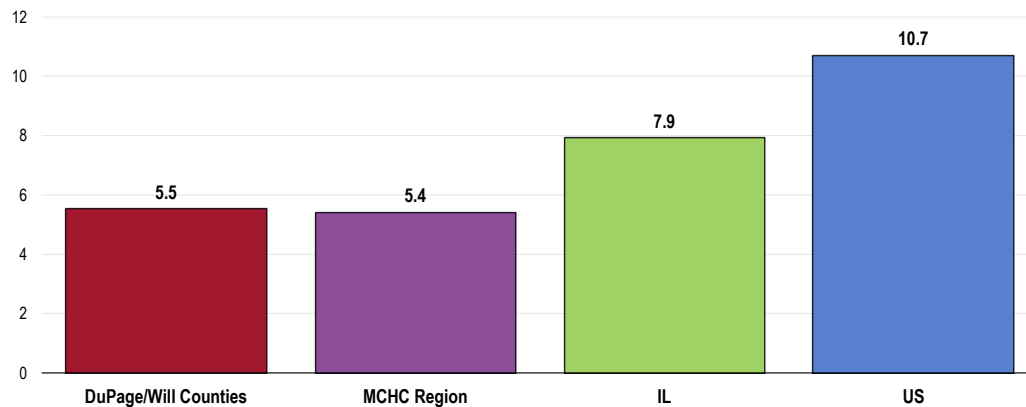
*Age-Adjusted Motor-Vehicle Related Deaths*

**Between 2011 and 2013, there was an annual average age-adjusted motor vehicle crash mortality rate of 5.5 deaths per 100,000 population in DuPage and Will counties.**

- Similar to the MCHC Region.
- Better than found statewide.
- Better than found nationally.
- Satisfies the Healthy People 2020 target (12.4 or lower).



### Motor Vehicle Crashes: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 12.4 or Lower



Sources: 

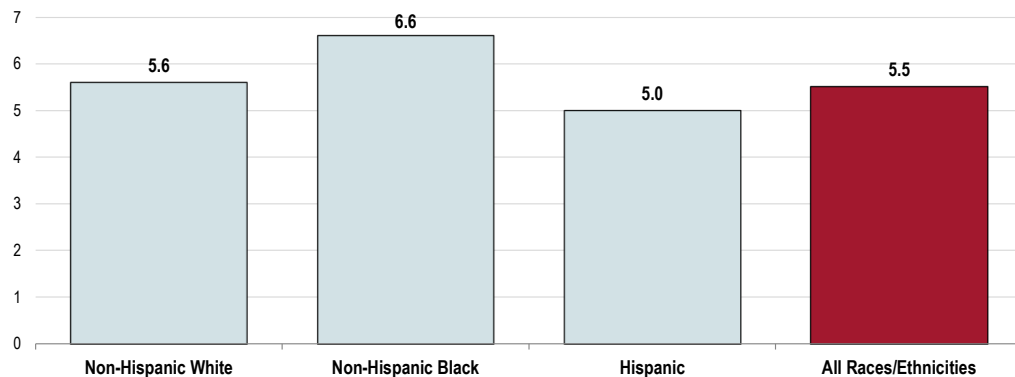
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-13.1]

Notes: 

- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
- Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- The DuPage/Will County motor vehicle crash mortality rate is similar across races.

### Motor Vehicle Crashes: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 12.4 or Lower



Sources: 

- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-13.1]

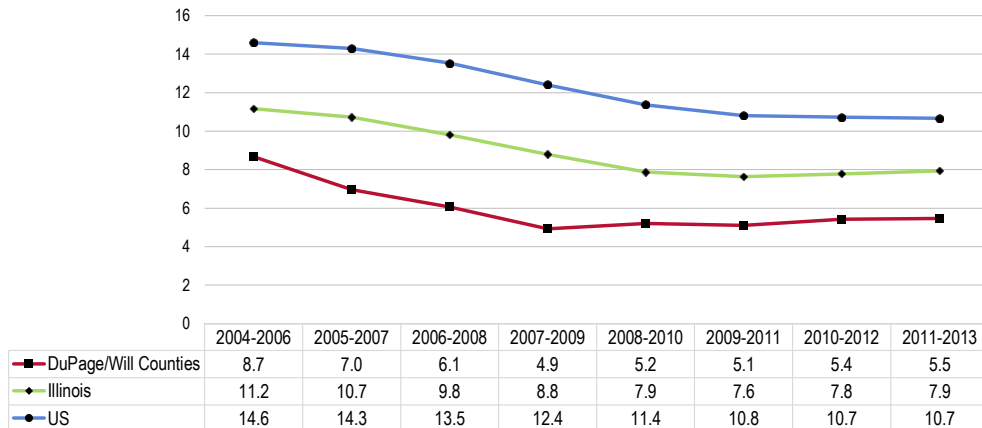
Notes: 

- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
- Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- TREND: The mortality rate in DuPage and Will counties decreased over the past decade.

### Motor Vehicle Crashes: Age-Adjusted Mortality Trends (Annual Average Deaths per 100,000 Population)

Healthy People 2020 Target = 12.4 or Lower



Sources: ● CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 ● US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-13.1]  
 Notes: ● Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 ● Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

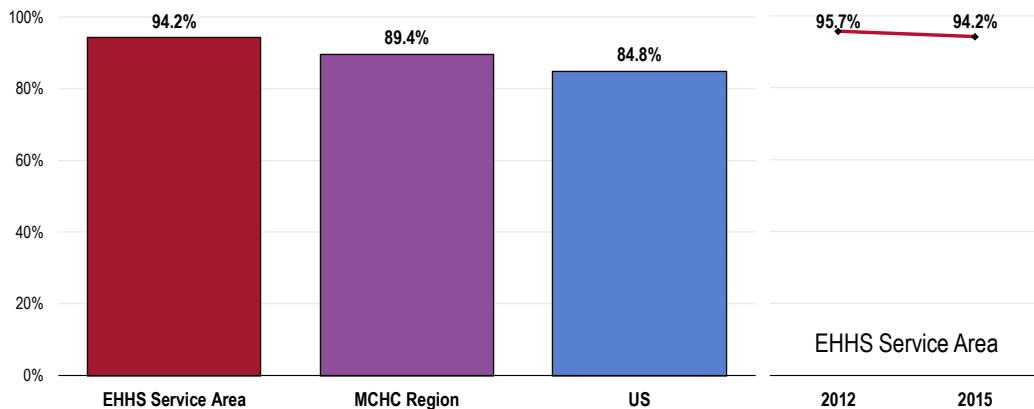
### Seat Belt Usage - Adults

Most service area adults (94.2%) report “always” wearing a seat belt when driving or riding in a vehicle.

- More favorable than the MCHC Region.
- More favorable than the percentage found nationally.
- Satisfies the Healthy People 2020 target of 92.0% or higher.
- TREND: Statistically unchanged since 2012.

### “Always” Wear a Seat Belt When Driving or Riding in a Vehicle

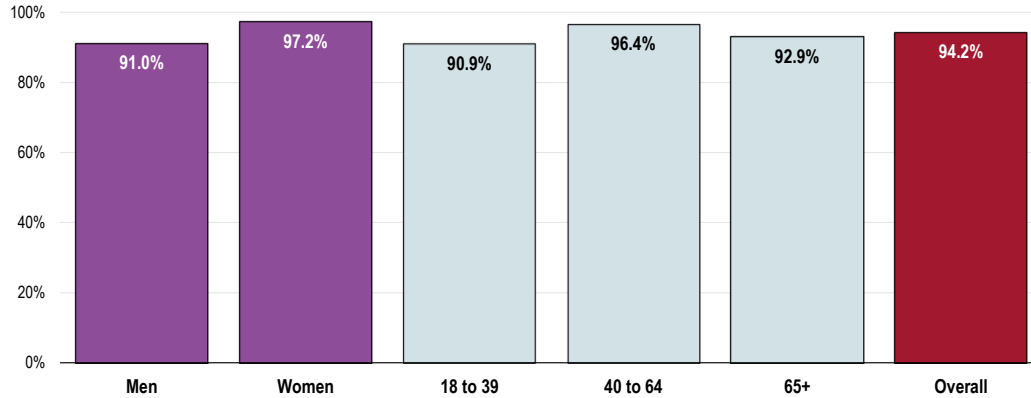
Healthy People 2020 Target = 92.0% or Higher



Sources: ● PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 49]  
 ● 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 ● US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-15]  
 Notes: ● Asked of all respondents.

Men are less likely to report consistent seat belt usage:

**“Always” Wear a Seat Belt  
When Driving or Riding in a Vehicle**  
(EHHS Service Area, 2015)  
Healthy People 2020 Target = 92.0% or Higher



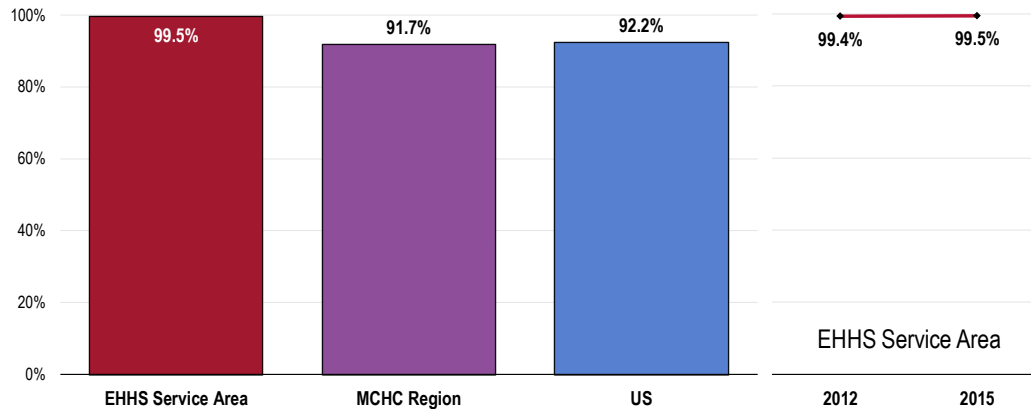
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 49]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-15]  
 Notes: • Asked of all respondents.

**Seat Belt Usage - Children**

A full 99.5% of area parents report that their child (age 0 to 17) “always” wears a seat belt (or appropriate car seat for younger children) when riding in a vehicle.

- Better than the regional and national percentages.
- TREND: Statistically unchanged since 2012.

**Child “Always” Wears a Seat Belt or  
Appropriate Restraint When Riding in a Vehicle**  
(Among Parents of Children Age 0-17)



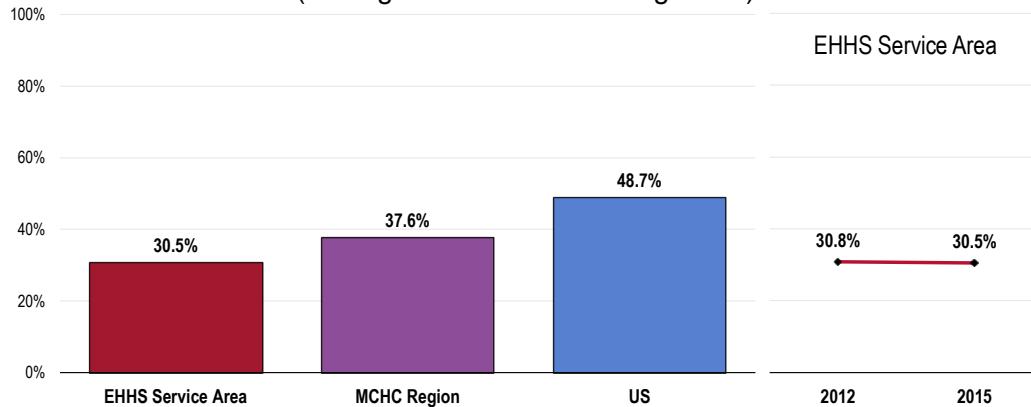
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 122]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents with children 0 to 17 in the household.

### Bicycle Safety

About 3 in 10 Edward Hospital Service Area children age 5 to 17 (30.5%) are reported to “always” wear a helmet when riding a bicycle.

- Similar to the MCHC Region.
- Lower than the national prevalence.
- TREND: Statistically unchanged over time.

### Child “Always” Wears a Helmet When Riding a Bicycle (Among Parents of Children Age 5-17)

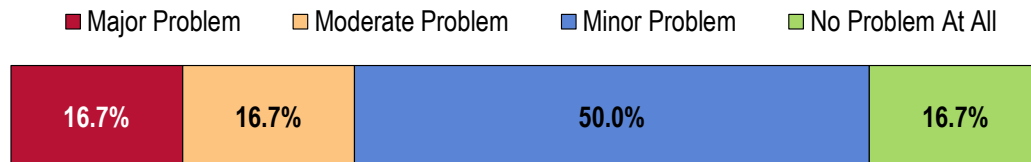


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 121]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents with children age 5 to 17 at home.

### Key Informant Input: Unintentional Injury

Half of key informants taking part in an online survey characterized *Unintentional Injury* as a “minor problem” in the community.

### Perceptions of Unintentional Injury as a Problem in the Community (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

## Challenges

Among those rating unintentional injury as a “major problem,” the following represent what key informants see as the main issues facing residents:

### Prevalence/Incidence

*This exists in every community, seat belt use, distracted driving (texting/emailing), biking without helmets, motorcycles without helmets, unsafe housing conditions. – Social Service Representative*

## Firearm Safety

### Age-Adjusted Firearm-Related Deaths

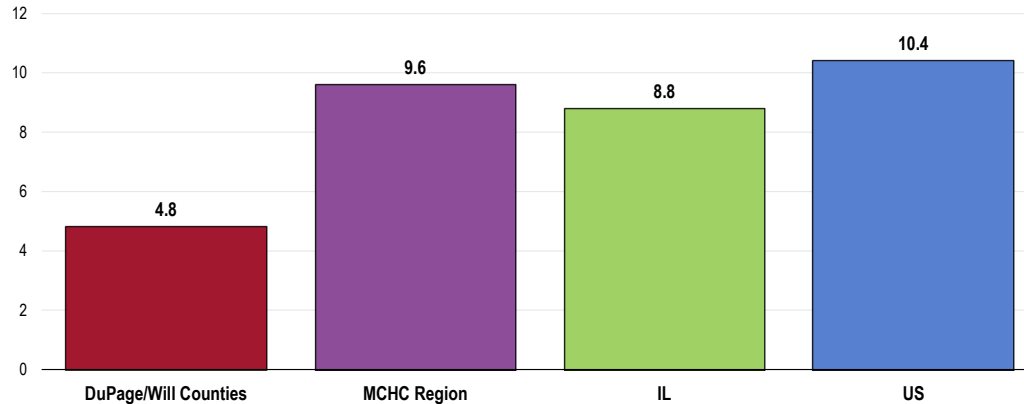
**Between 2011 and 2013, there was an annual average age-adjusted rate of 4.8 deaths per 100,000 population due to firearms in DuPage and Will counties.**

- Lower than found in the MCHC Region.
- Lower than found statewide.
- Lower than found nationally.
- Satisfies the Healthy People 2020 objective (9.3 or lower).

## Firearms-Related Deaths: Age-Adjusted Mortality

(2011-2013 Annual Average Deaths per 100,000 Population)

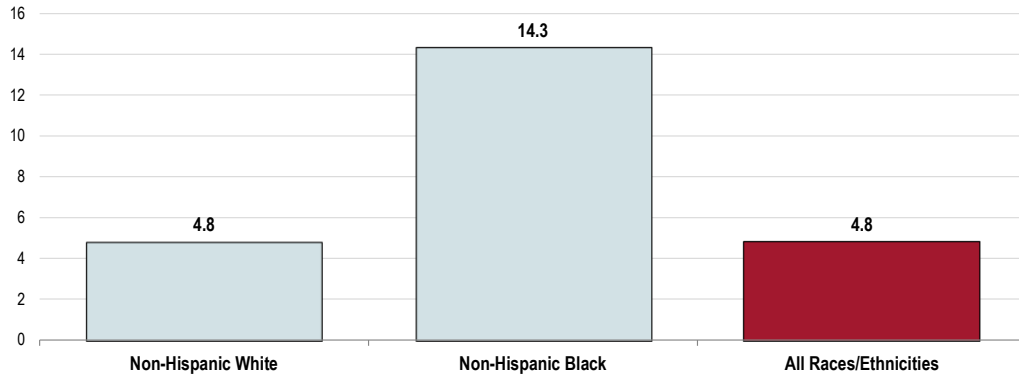
**Healthy People 2020 Target = 9.3 or Lower**



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-30]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- The DuPage/Will counties firearm-related mortality rate is notably high in the Black population.

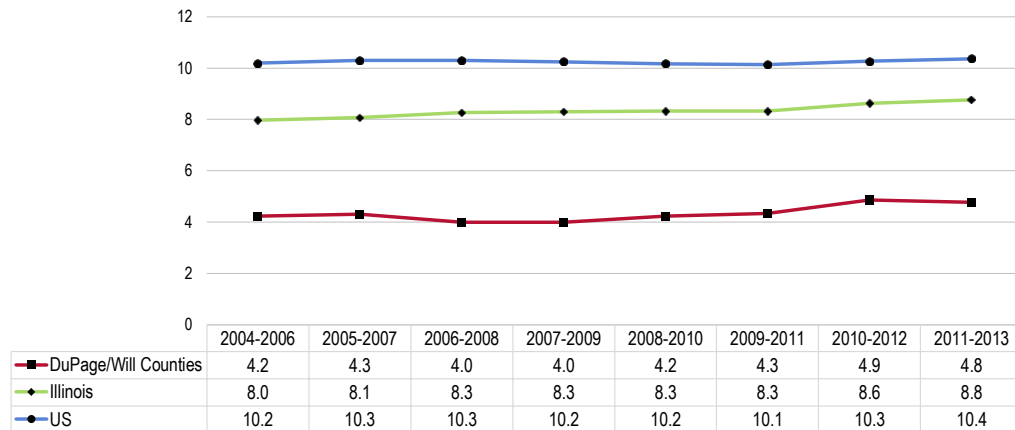
**Firearms-Related Deaths: Age-Adjusted Mortality by Race**  
 (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population)  
 Healthy People 2020 Target = 9.3 or Lower



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-30]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- TREND: Firearm-related mortality has been stable over the past decade.

**Firearms-Related Deaths: Age-Adjusted Mortality Trends**  
 (Annual Average Deaths per 100,000 Population)  
 Healthy People 2020 Target = 9.3 or Lower



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-30]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

**Presence of Firearms in Homes**

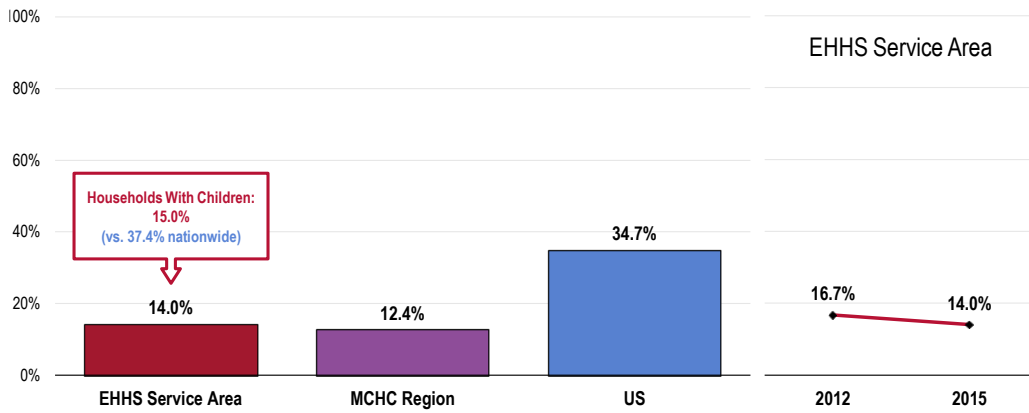
Survey respondents were further asked about the presence of weapons in the home:

*“Are there any firearms now kept in or around your home, including those kept in a garage, outdoor storage area, truck, or car? For the purposes of this inquiry, ‘firearms’ include pistols, shotguns, rifles, and other types of guns, but do NOT include starter pistols, BB guns, or guns that cannot fire.”*

**Overall, 14.0% of Edward Hospital Service Area adults have a firearm kept in or around their home.**

- Similar to the MCHC Region.
- Much lower than the national prevalence.
- TREND: Statistically unchanged over time.
- Among Edward Hospital Service Area households with children, 15.0% have a firearm kept in or around the house (well below that reported nationally).
- TREND: The prevalence of firearms in households with children has remained statistically unchanged over time (not shown).

**Have a Firearm Kept in or Around the Home**

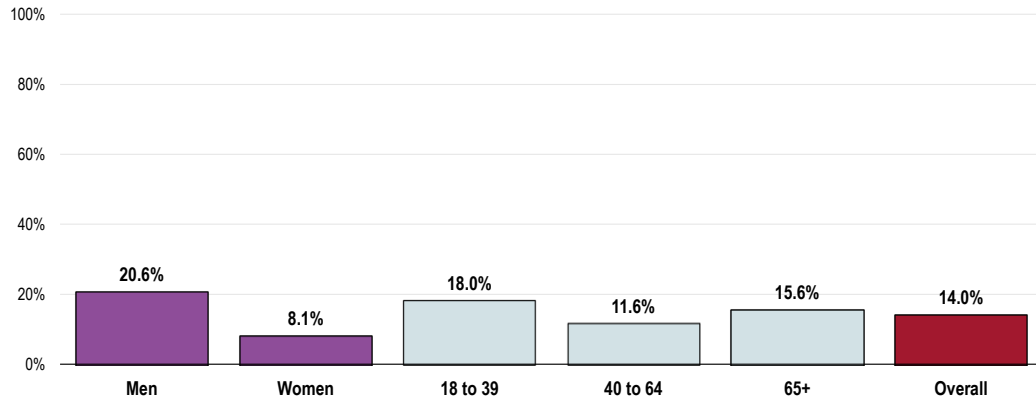


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 52, 137]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.

Notes: • Asked of all respondents.  
 • In this case, firearms include pistols, shotguns, rifles, and other types of guns; this does not include starter pistols, BB guns, or guns that cannot fire.

- Reports of firearms in or around the home are more prevalent among men.

### Have a Firearm Kept in or Around the House (EHHS Service Area, 2015)

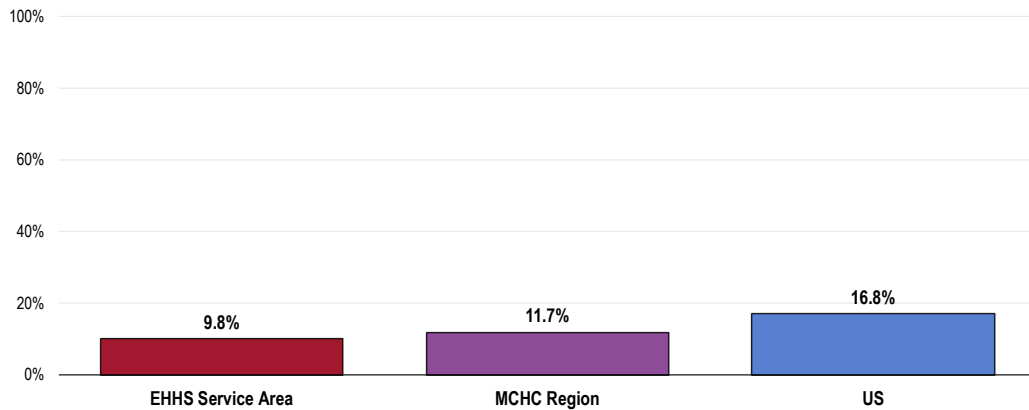


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 52]  
 Notes: • Asked of all respondents.  
 • In this case, firearms include pistols, shotguns, rifles, and other types of guns; this does not include starter pistols, BB guns, or guns that cannot fire.

**Among Edward Hospital Service Area households with firearms, 9.8% report that there is at least one weapon that is kept unlocked and loaded.**

- Similar to the MCHC Region.
- Similar to that found nationally.

### Household Has An Unlocked, Loaded Firearm (Among Respondents Reporting a Firearm in or Around the Home)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 138]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents with a firearm in or around the home.  
 • In this case, firearms include pistols, shotguns, rifles, and other types of guns; this does not include starter pistols, BB guns, or guns that cannot fire.



## Intentional Injury (Violence)

### Age-Adjusted Homicide Deaths

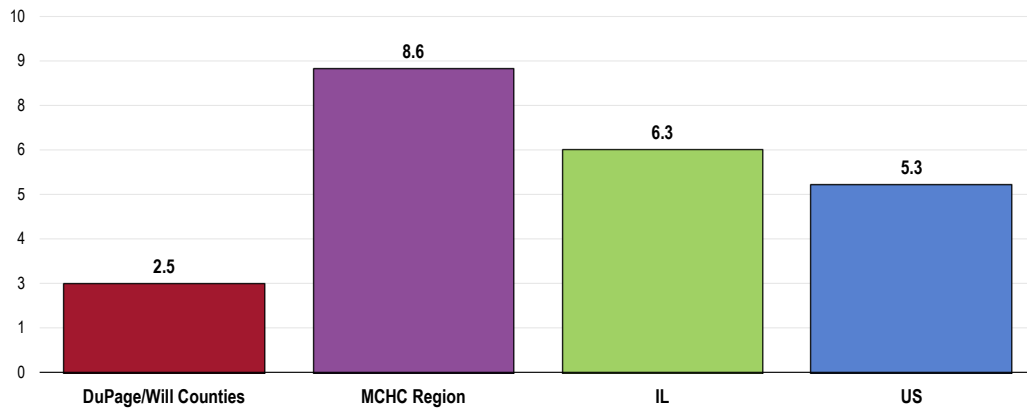
Between 2011 and 2013, there was an annual average age-adjusted homicide rate of 2.5 deaths per 100,000 population in DuPage and Will counties.

RELATED ISSUE:

See also *Suicide* in the **Mental Health** section of this report.

- More favorable than the MCHC Region.
- More favorable than the rates found statewide.
- More favorable than the national rate.
- Satisfies the Healthy People 2020 target of 5.5 or lower.

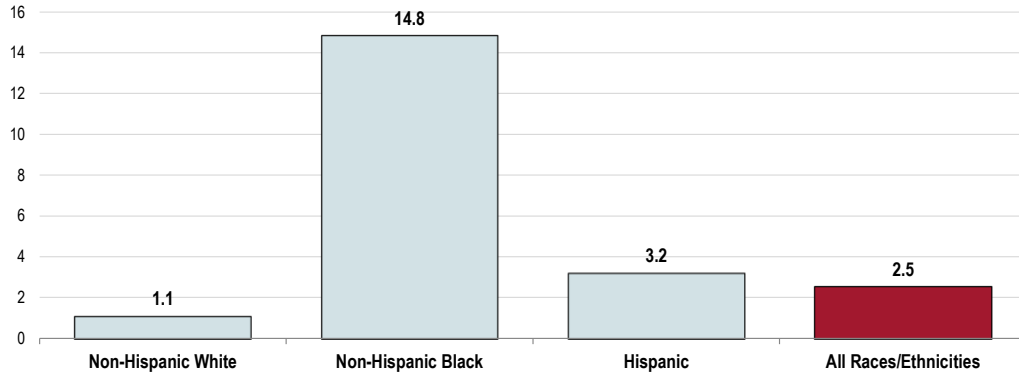
**Homicide: Age-Adjusted Mortality**  
 (2011-2013 Annual Average Deaths per 100,000 Population)  
 Healthy People 2020 Target = 5.5 or Lower



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-29]  
 Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 • Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- The homicide rate is notably higher among Blacks in DuPage and Will counties.

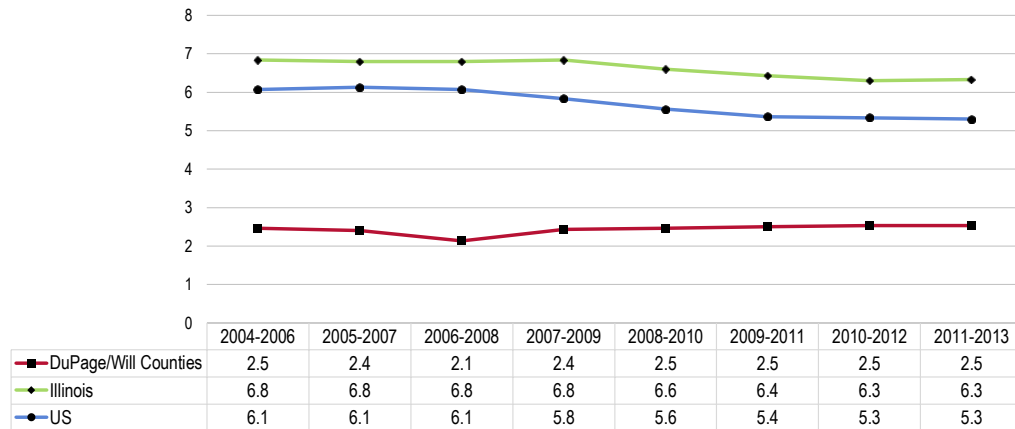
### Homicide: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 5.5 or Lower



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-29]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

• **TREND:** The homicide rate remained steady over the past decade in the area.

### Homicide: Age-Adjusted Mortality Trends (Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 5.5 or Lower



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IVP-29]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

## Violent Crime

### Violent Crime Rates

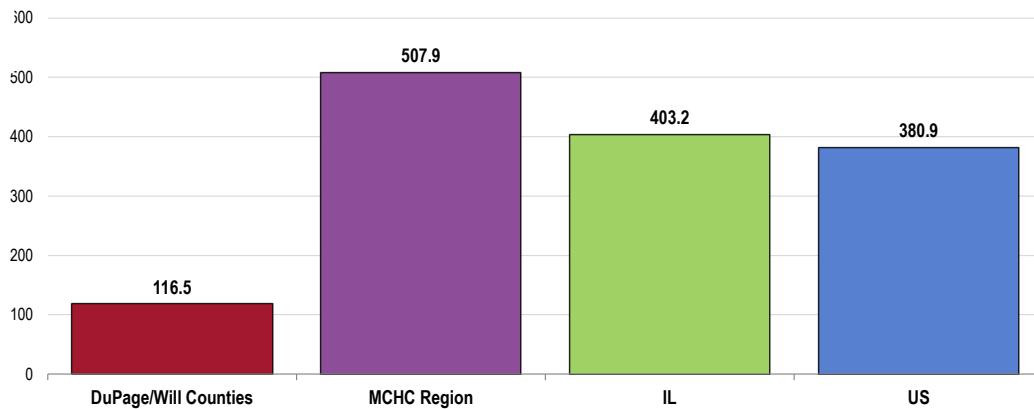
Violent crime is composed of four offenses (FBI Index offenses): murder and non-negligent manslaughter; forcible rape; robbery; and aggravated assault.

Note that the quality of crime data can vary widely from location to location, depending on the consistency and completeness of reporting among various jurisdictions.

**Between 2011 and 2013, there were a reported 116.5 violent crimes per 100,000 population in DuPage and Will counties.**

- Much lower than the MCHC Region for the same period.
- Lower than the Illinois rate.
- Lower than the national rate.

**Violent Crime**  
(Rate per 100,000 Population, 2011-2013)



Sources:
 

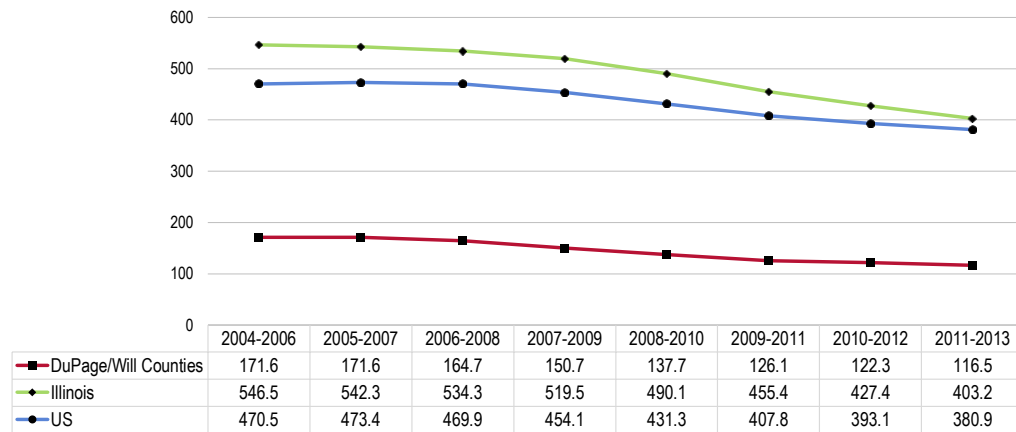
- Federal Bureau of Investigation, FBI Uniform Crime Reports: 2011-2013.
- Illinois State Police.

Notes:
 

- This indicator reports the rate of violent crime offenses reported by the sheriff's office or county police department per 100,000 residents. Violent crime includes homicide, rape, robbery, and aggravated assault. This indicator is relevant because it assesses community safety.
- Participation by law enforcement agencies in the UCR program is voluntary. Sub-state data do not necessarily represent an exhaustive list of crimes due to gaps in reporting. Also, some institutions of higher education have their own police departments, which handle offenses occurring within campus grounds; these offenses are not included in the violent crime statistics, but can be obtained from the Uniform Crime Reports Universities and Colleges data tables.

- **TREND:** Note the decreasing trends in violent crime over the past decade.

### Violent Crime (Rate per 100,000 Population)



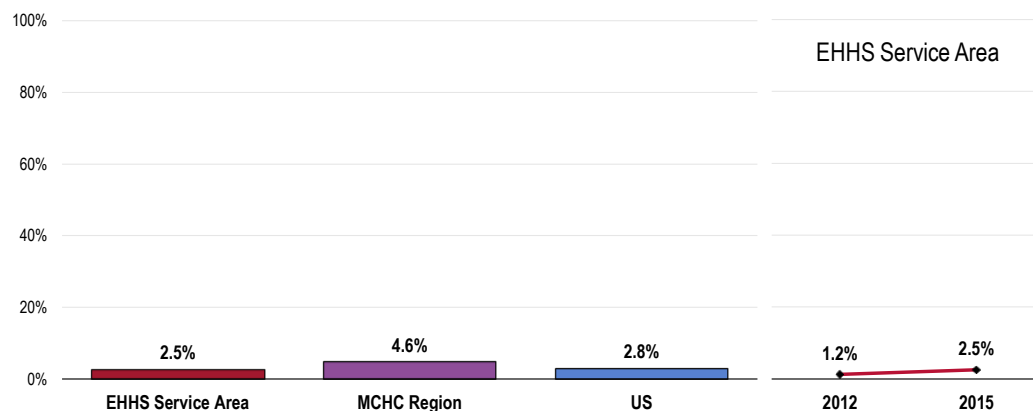
Sources: ● Federal Bureau of Investigation, FBI Uniform Crime Reports: 2011-2013.  
 ● Illinois State Police.  
 Notes: ● This indicator reports the rate of violent crime offenses reported by the sheriff's office or county police department per 100,000 residents. Violent crime includes homicide, rape, robbery, and aggravated assault. This indicator is relevant because it assesses community safety.  
 ● Participation by law enforcement agencies in the UCR program is voluntary. Sub-state data do not necessarily represent an exhaustive list of crimes due to gaps in reporting. Also, some institutions of higher education have their own police departments, which handle offenses occurring within campus grounds; these offenses are not included in the violent crime statistics, but can be obtained from the Uniform Crime Reports Universities and Colleges data tables.

### Self-Reported Violence

**A total of 2.5% of Edward Hospital Service Area adults acknowledge being the victim of a violent crime in the past five years.**

- Better than the MCHC Region.
- Similar to national findings.
- TREND: Statistically unchanged over time.

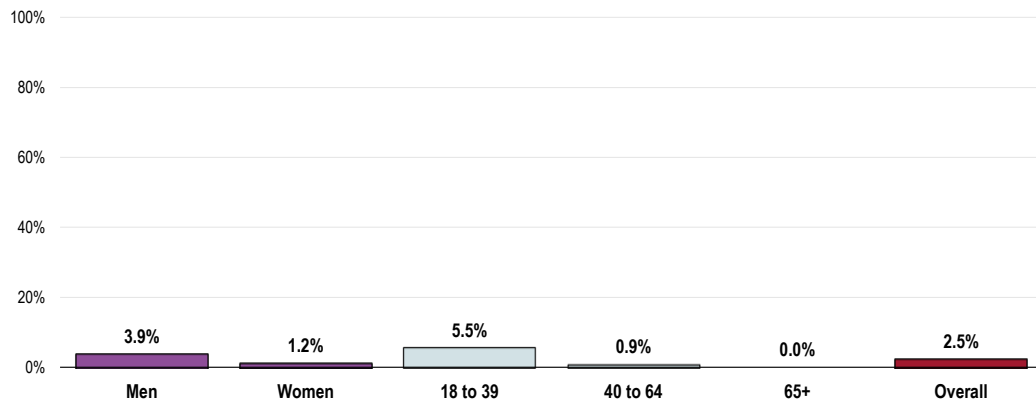
### Victim of a Violent Crime in the Past Five Years



Sources: ● PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 50]  
 ● 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: ● Asked of all respondents.

- Reports of violence do not differ significantly by demographic characteristics.

### Victim of a Violent Crime in the Past Five Years (EHHS Service Area, 2015)



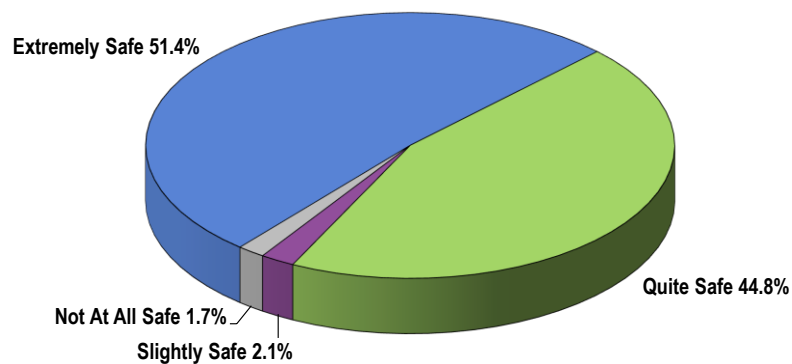
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 50]  
 Notes: • Asked of all respondents.

### Perceived Neighborhood Safety

Most Edward Hospital Service Area adults (96.2%) consider their neighborhood to be “extremely” or “quite” safe from crime.

- Another 2.1% gave “slightly safe” ratings of their own neighborhoods.

### Perceptions of Neighborhood’s Safety from Crime (EHHS Service Area, 2015)

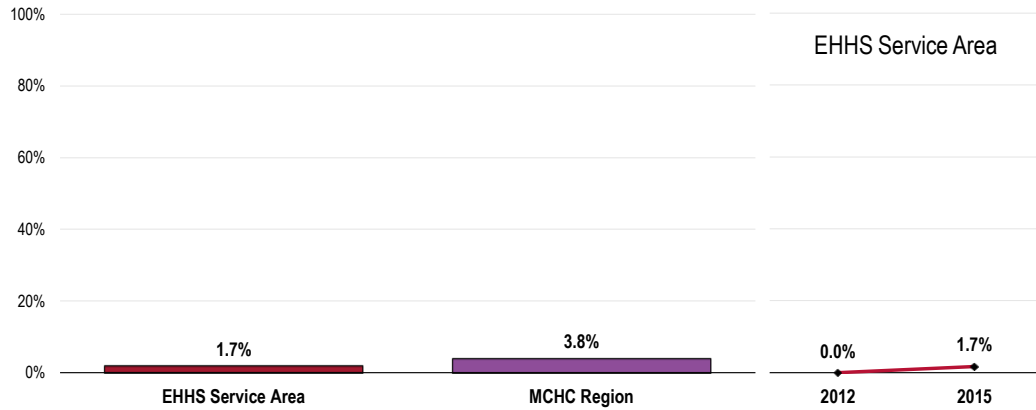


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 304]  
 Notes: • Asked of all respondents.

Note that 1.7% of survey respondents consider their neighborhood to be “not at all safe” from crime.

- Lower than the MCHC Region.
- TREND: Significantly increased since 2012.

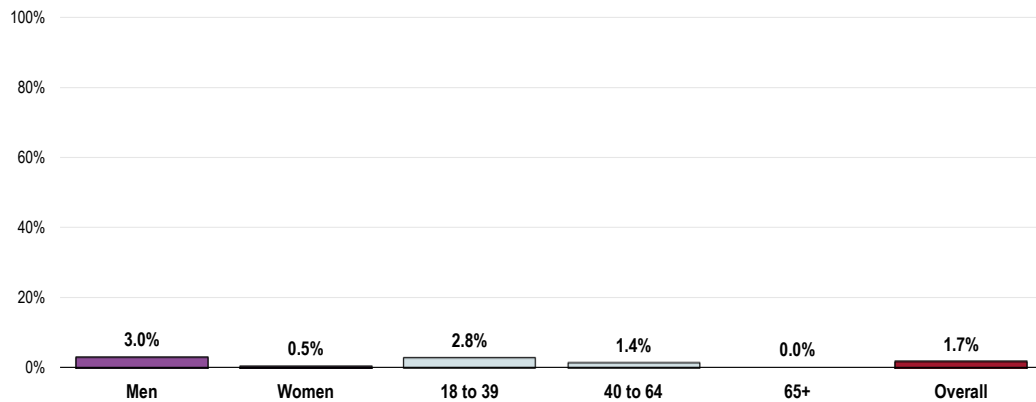
### Perceive Neighborhood to be “Not At All Safe” from Crime



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 304]  
 Notes: • Asked of all respondents.

- Younger residents are more likely to give lower ratings of their neighborhood’s safety from crime.

### Perceive Neighborhood to be “Not At All Safe” from Crime (EHHS Service Area, 2015)



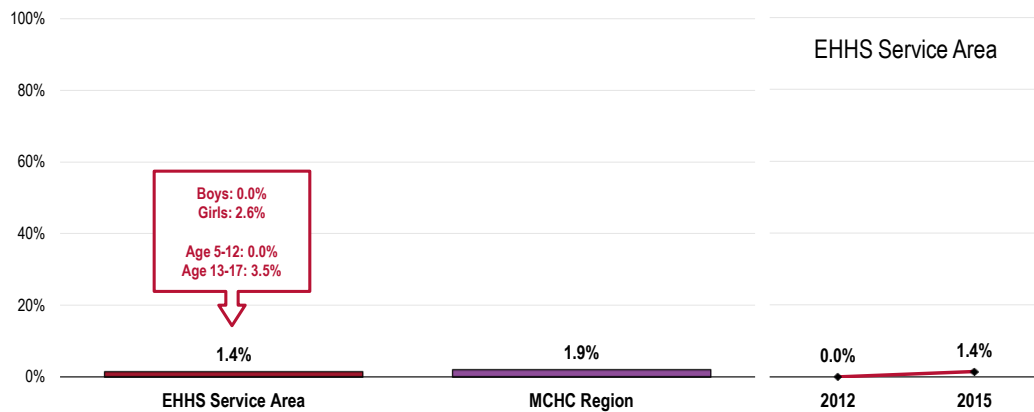
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 304]  
 Notes: • Asked of all respondents.

**Child Safety at School**

Among area parents of school-age children, 1.4% report that their child missed at least one day of school in the past month because of feeling unsafe.

- Similar to the MCHC Region.
- Findings do not differ significantly by child’s gender or age.
- TREND: Statistically unchanged from 2012 survey findings.

**Child Missed School at Least Once Last Month Due to Feeling Unsafe (EHHS Service Area School-Aged Children)**

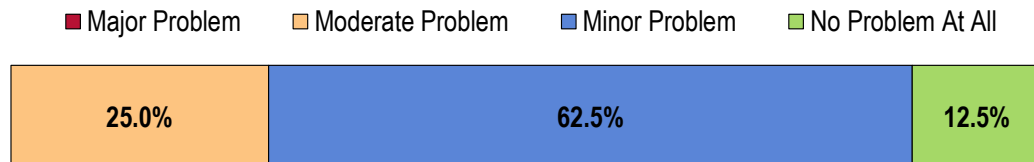


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 313]  
 Notes: • Asked of those parents with school-age children.

**Key Informant Input: Community Violence**

A plurality of key informants taking part in an online survey characterized *Community Violence* as a “minor problem” in the community.

**Perceptions of Community Violence as a Problem in the Community (Key Informants, 2015)**



Sources: • 2015 PRC Online Key Informant Survey.

**Self-Reported Family Violence**

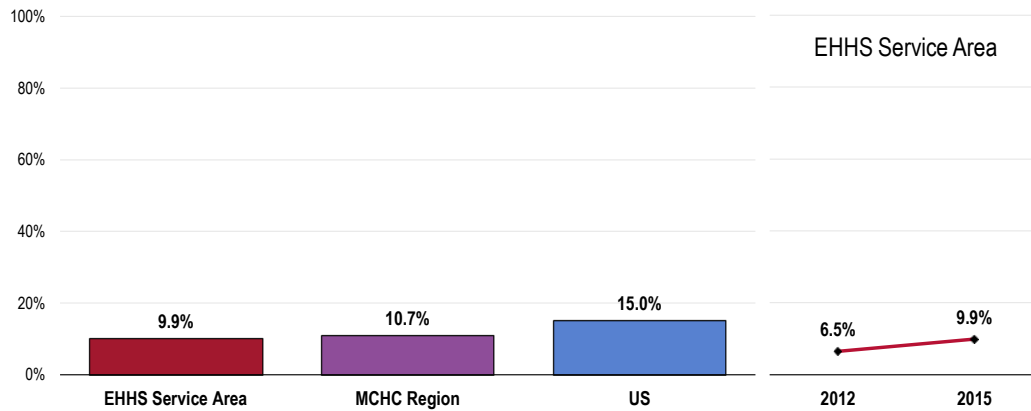
**A total of 9.9% of respondents acknowledge that they have ever been hit, slapped, pushed, kicked, or otherwise hurt by an intimate partner.**

Respondents were told:

*“By an intimate partner, I mean any current or former spouse, boyfriend, or girlfriend. Someone you were dating, or romantically or sexually intimate with would also be considered an intimate partner.”*

- Similar to the MCHC Region.
- More favorable than national findings.
- TREND: Over time, the prevalence has not significantly changed.

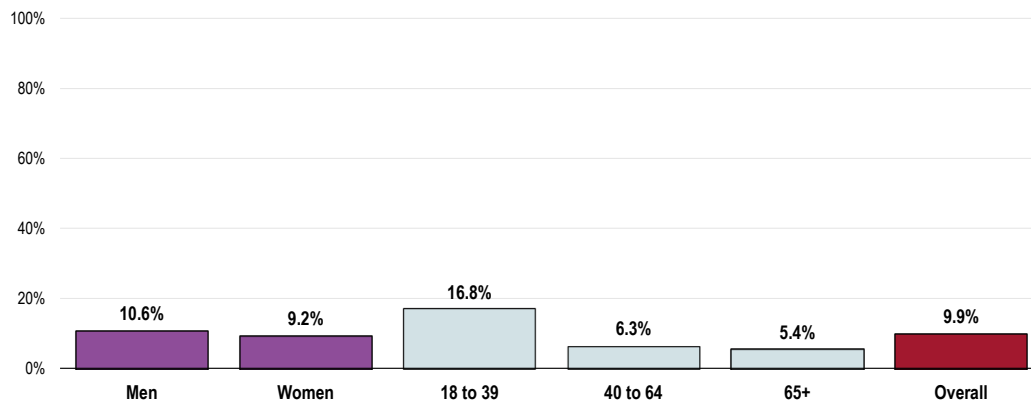
**Have Ever Been Hit, Slapped, Pushed, Kicked, or Hurt in Any Way by an Intimate Partner**



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 51]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

- Reports of domestic violence are also notably higher among young adults.

**Have Ever Been Hit, Slapped, Pushed, Kicked, or Hurt in Any Way by an Intimate Partner (EHHs Service Area, 2015)**



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 51]  
 Notes: • Asked of all respondents.



### ***Key Informant Input: Family Violence***

More than half of key informants taking part in an online survey characterized *Family Violence* as a “moderate problem” in the community.

#### **Perceptions of Family Violence as a Problem in the Community** (Key Informants, 2015)

■ Major Problem   ■ Moderate Problem   ■ Minor Problem   ■ No Problem At All



Sources: • 2015 PRC Online Key Informant Survey.

### **Challenges**

Among those rating family violence as a “major problem,” the following represent what key informants see as the main challenges:

#### ***System Issues***

*There's no systematic approach to holding perpetrators accountable and ensuring the safety of victims.*  
– Social Service Representative

## Diabetes

### About Diabetes

Diabetes mellitus occurs when the body cannot produce or respond appropriately to insulin. Insulin is a hormone that the body needs to absorb and use glucose (sugar) as fuel for the body's cells. Without a properly functioning insulin signaling system, blood glucose levels become elevated and other metabolic abnormalities occur, leading to the development of serious, disabling complications. Many forms of diabetes exist; the three common types are Type 1, Type 2, and gestational diabetes. Effective therapy can prevent or delay diabetic complications.

Diabetes mellitus:

- Lowers life expectancy by up to 15 years.
- Increases the risk of heart disease by 2 to 4 times.
- Is the leading cause of kidney failure, lower limb amputations, and adult-onset blindness.

The rate of diabetes mellitus continues to increase both in the United States and throughout the world. Due to the steady rise in the number of persons with diabetes mellitus, and possibly earlier onset of type 2 diabetes mellitus, there is growing concern about the possibility that the increase in the number of persons with diabetes mellitus and the complexity of their care might overwhelm existing healthcare systems.

People from minority populations are more frequently affected by type 2 diabetes. Minority groups constitute 25% of all adult patients with diabetes in the US and represent the majority of children and adolescents with type 2 diabetes.

Lifestyle change has been proven effective in preventing or delaying the onset of type 2 diabetes in high-risk individuals.

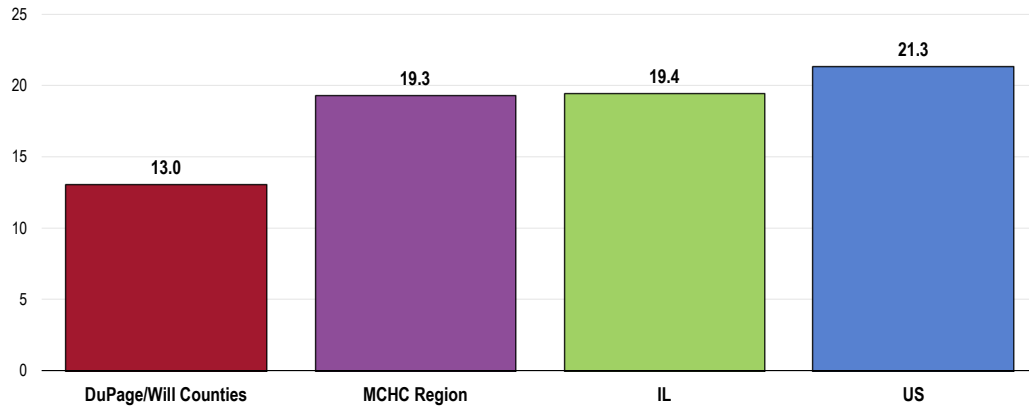
- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Age-Adjusted Diabetes Deaths

**Between 2011 and 2013, there was an annual average age-adjusted diabetes mortality rate of 13.0 deaths per 100,000 population in DuPage and Will counties.**

- Better than that found in the MCHC Region.
- Better than that found statewide.
- Better than the national rate.
- Satisfies the Healthy People 2020 target (20.5 or lower, adjusted to account for diabetes mellitus-coded deaths).

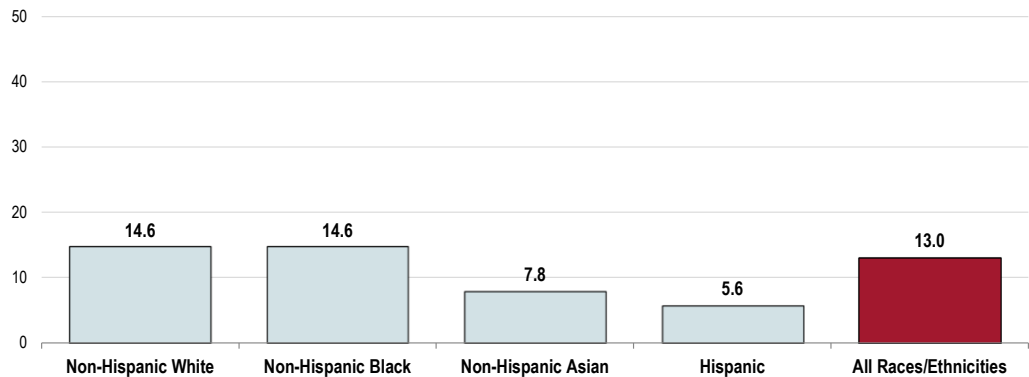
### Diabetes: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 20.5 or Lower (Adjusted)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective D-3]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.
  - The Healthy People 2020 target for Diabetes is adjusted to account for only diabetes mellitus coded deaths.

- The diabetes mortality rate is notably higher among Whites and Blacks in DuPage/Will counties.

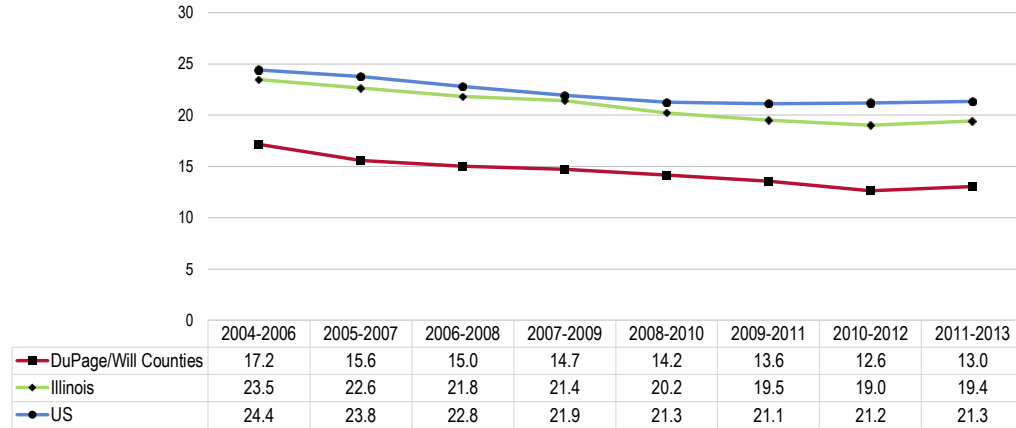
### Diabetes: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 20.5 or Lower (Adjusted)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective D-3]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.
  - The Healthy People 2020 target for Diabetes is adjusted to account for only diabetes mellitus coded deaths.

- TREND: Diabetes mortality has decreased over the past decade.

**Diabetes: Age-Adjusted Mortality Trends**  
 (Annual Average Deaths per 100,000 Population)  
 Healthy People 2020 Target = 20.5 or Lower (Adjusted)



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective D-3]  
 Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 • Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.  
 • The Healthy People 2020 target for Diabetes is adjusted to account for only diabetes mellitus coded deaths.

**Prevalence of Diabetes**

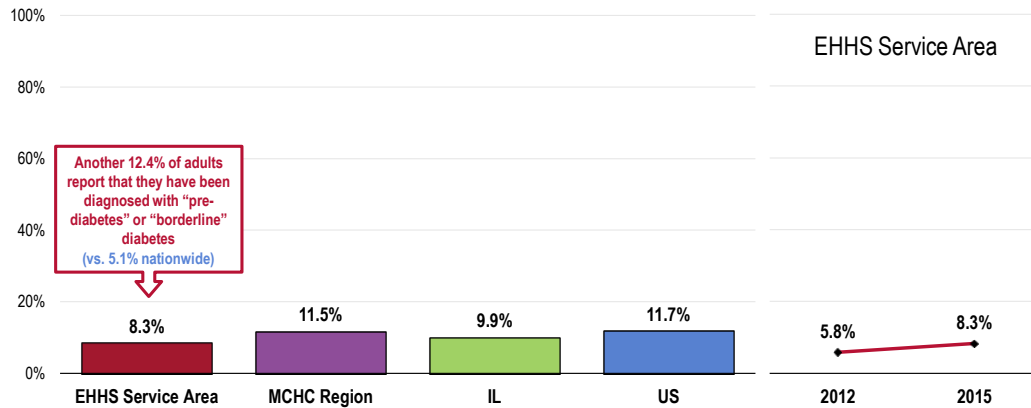
**A total of 8.3% of Edward Hospital Service Area adults report having been diagnosed with diabetes.**

- Lower than the MCHC Region.
- Similar to the statewide proportion.
- Lower than the national proportion.
- TREND: Statistically unchanged since 2012.

**In addition to the prevalence of diagnosed diabetes referenced above, another 12.4% of Edward Hospital Service Area adults report that they have “pre-diabetes” or “borderline diabetes.”**

- Less favorable than the US prevalence.

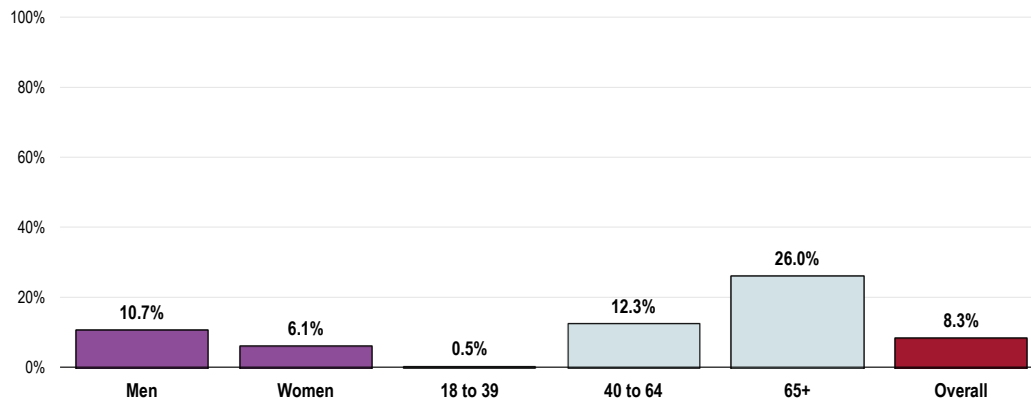
### Prevalence of Diabetes



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 136]
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.
- Notes:
- Asked of all respondents.
  - Local and national data exclude gestation diabetes (occurring only during pregnancy).

A higher prevalence of diagnosed diabetes (excluding pre-diabetes or borderline diabetes) is reported among older adults (note the strong positive correlation between diabetes and age, with 26.0% of seniors with diabetes).

### Prevalence of Diabetes (EHHS Service Area, 2015)



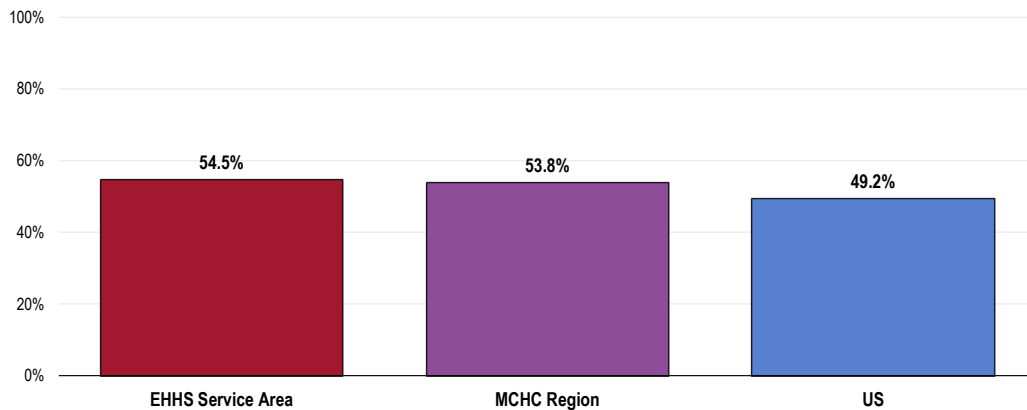
- Sources:
- 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 136]
- Notes:
- Asked of all respondents.
  - Excludes gestation diabetes (occurring only during pregnancy).

### Diabetes Testing

Of Edward Hospital Service Area adults who have not been diagnosed with diabetes, 54.5% report having had their blood sugar level tested within the past three years.

- Similar to the MCHC Region.
- Similar to the national proportion.

### Have Had Blood Sugar Tested in the Past Three Years (Among Non-Diabetics)

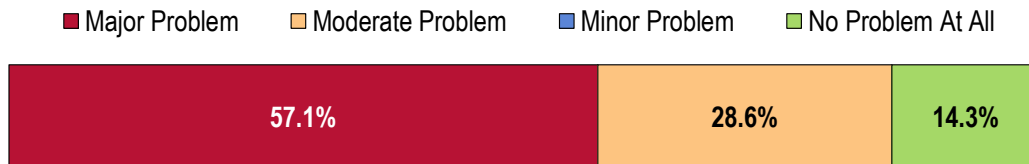


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 40]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of respondents who have not been diagnosed with diabetes.

### Key Informant Input: Diabetes

Nearly 6 in 10 key informants taking part in an online survey characterized *Diabetes* as a “major problem” in the community.

### Perceptions of Diabetes as a Problem in the Community (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

## CHALLENGES

Among those rating this issue as a “major problem,” the biggest challenges for people with diabetes are seen as:

### **Education**

*The convenience of healthy foods and the lack of knowledge of what and how to eat proper meals. – Community/Business Leader*

*Adjusting lifestyle prior to the development of the disease, understanding the risk factors and the preventable steps that can positively and significantly influence the development of the disease. Once diagnosed, understanding the chronic nature of both the disease and the treatment of the disease. – Public Health Expert*

### **Disease Management**

*Affordability of medication for type 2 diabetics and dealing with issues that long-time diabetics face, from problems with their feet to problems controlling their weight to blindness. – Community/Business Leader*

*Compliance, affording medications, nutrition, vision care. – Social Service Representative*

## Alzheimer's Disease

### About Dementia

Dementia is the loss of cognitive functioning—thinking, remembering, and reasoning—to such an extent that it interferes with a person's daily life. Dementia is not a disease itself, but rather a set of symptoms. Memory loss is a common symptom of dementia, although memory loss by itself does not mean a person has dementia. Alzheimer's disease is the most common cause of dementia, accounting for the majority of all diagnosed cases.

Alzheimer's disease is the 6th leading cause of death among adults age 18 years and older. Estimates vary, but experts suggest that up to 5.1 million Americans age 65 years and older have Alzheimer's disease. These numbers are predicted to more than double by 2050 unless more effective ways to treat and prevent Alzheimer's disease are found.

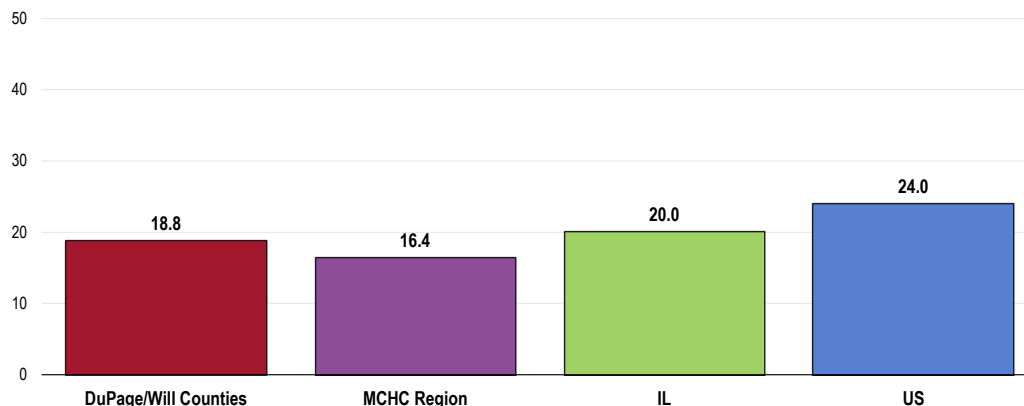
- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Age-Adjusted Alzheimer's Disease Deaths

Between 2011 and 2013, there was an annual average age-adjusted Alzheimer's disease mortality rate of 18.8 deaths per 100,000 population in DuPage/Will counties.

- Higher than the MCHC Region.
- Lower than the statewide rate.
- Lower than the national rate.

### Alzheimer's Disease: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population)



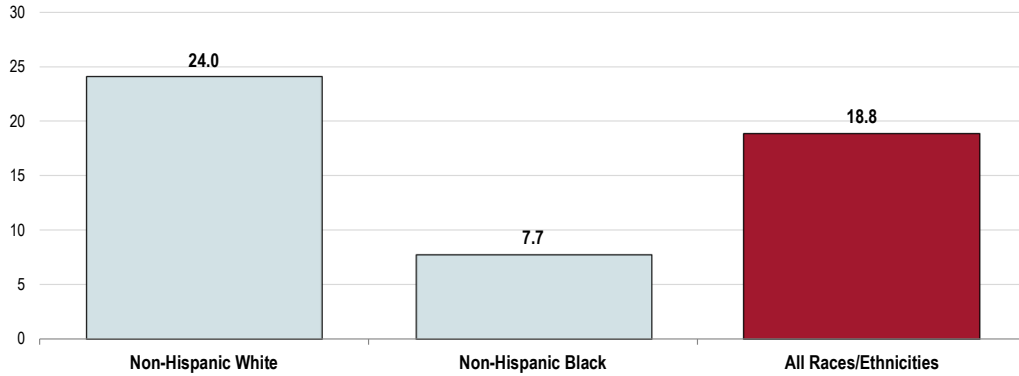
Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.

Notes: • Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
• Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.



- The Alzheimer’s disease mortality rate is much higher in the White population when compared with Blacks in the area.

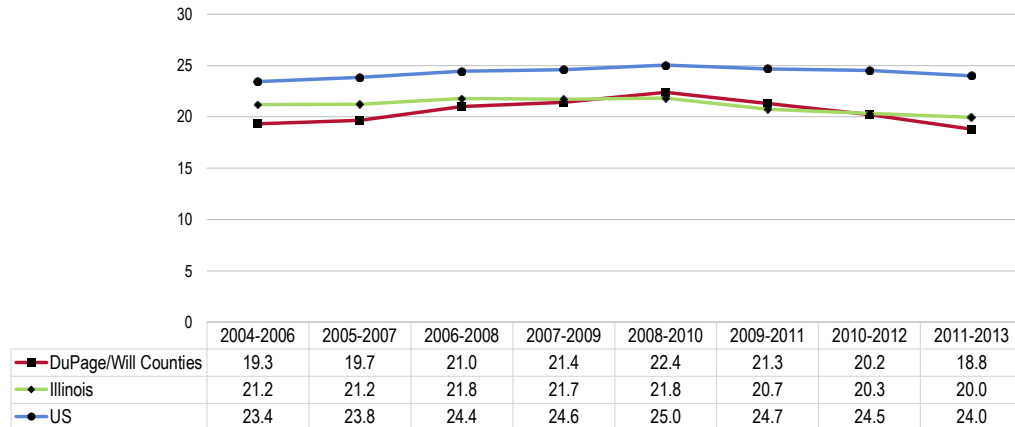
**Alzheimer's Disease: Age-Adjusted Mortality by Race**  
(DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- TREND: Alzheimer’s disease mortality has decreased in the area and across the state over the past decade. The US rate was more stable.

**Alzheimer's Disease: Age-Adjusted Mortality Trends**  
(Annual Average Deaths per 100,000 Population)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

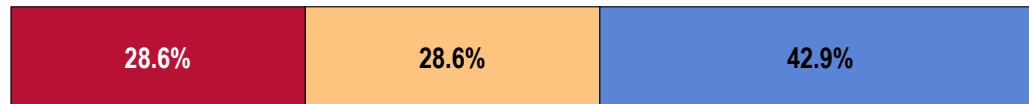
## **Key Informant Input: Dementias, Including Alzheimer's Disease**

Key informants taking part in an online survey are most likely to consider *Dementias, Including Alzheimer's Disease* as a “minor problem” in the community.

### **Perceptions of Dementia/Alzheimer's Disease as a Problem in the Community**

(Key Informants, 2015)

■ Major Problem    ■ Moderate Problem    ■ Minor Problem    ■ No Problem At All



Sources: • 2015 PRC Online Key Informant Survey.

### **TOP CONCERNS**

Among those rating this issue as a “major problem,” reasons frequently related to the following:

#### ***Ageing Population***

*Ageing of the baby boomers will present major issues when they become demented. – Social Service Representative*

*We've reached a point demographically where the baby boomers are creating the largest senior population in US history. The elderly population will more than double by the year 2050, with most of that growth occurring between 2010 and 2030. It only stands to reason that health problems, such as Alzheimer's and dementia, will increase. – Community/Business Leader*

## Kidney Disease

### About Chronic Kidney Disease

Chronic kidney disease and end-stage renal disease are significant public health problems in the United States and a major source of suffering and poor quality of life for those afflicted. They are responsible for premature death and exact a high economic price from both the private and public sectors. Nearly 25% of the Medicare budget is used to treat people with chronic kidney disease and end-stage renal disease.

Genetic determinants have a large influence on the development and progression of chronic kidney disease. It is not possible to alter a person's biology and genetic determinants; however, environmental influences and individual behaviors also have a significant influence on the development and progression of chronic kidney disease. As a result, some populations are disproportionately affected. Successful behavior modification is expected to have a positive influence on the disease.

Diabetes is the most common cause of kidney failure. The results of the Diabetes Prevention Program (DPP) funded by the national Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) show that moderate exercise, a healthier diet, and weight reduction can prevent development of type 2 diabetes in persons at risk.

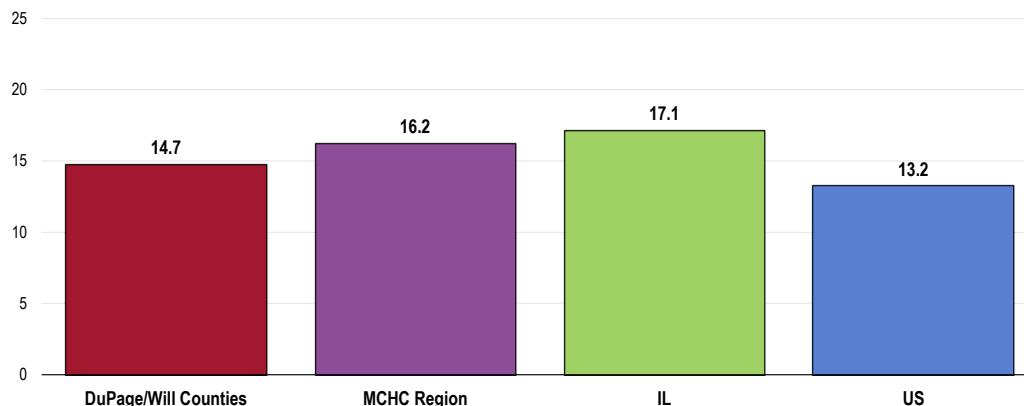
- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Age-Adjusted Kidney Disease Deaths

**Between 2011 and 2013 there was an annual average age-adjusted kidney disease mortality rate of 14.7 deaths per 100,000 population in DuPage and Will counties.**

- Better than the MCHC Region.
- Better than the rate found statewide.
- Worse than the national rate.

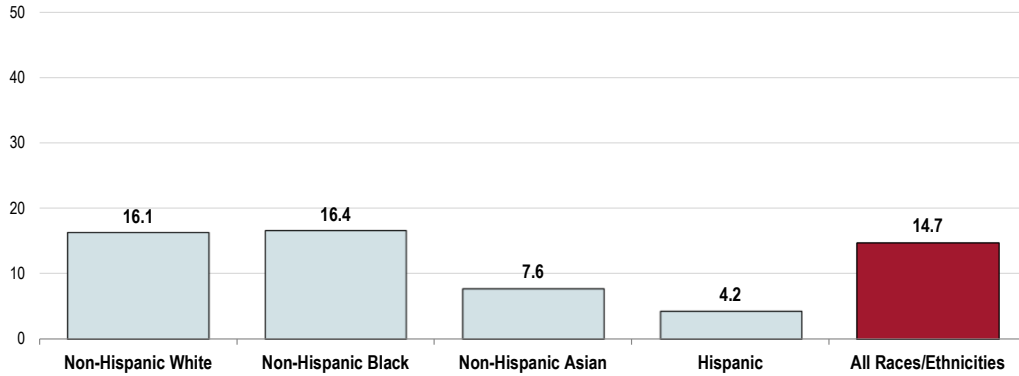
**Kidney Disease: Age-Adjusted Mortality**  
(2011-2013 Annual Average Deaths per 100,000 Population)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- The kidney disease mortality rate in DuPage/Will counties is much higher among Whites and Blacks.

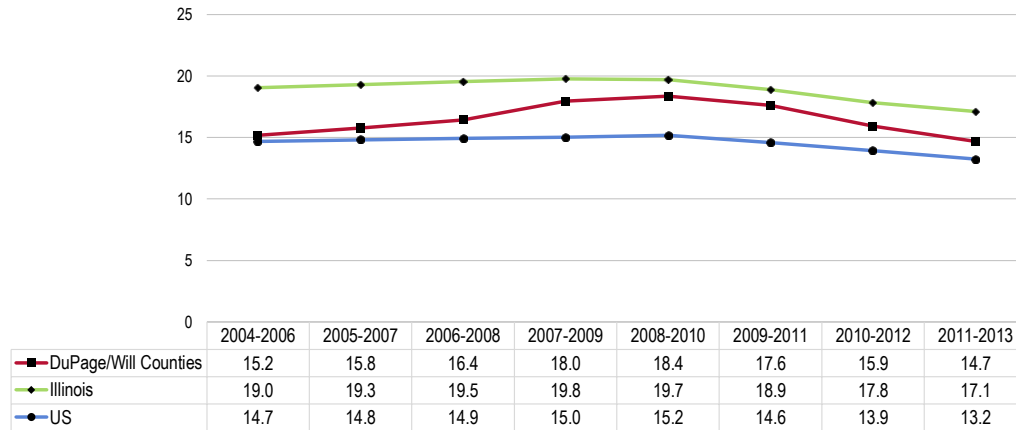
**Kidney Disease: Age-Adjusted Mortality by Race**  
(DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population)



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- TREND: Kidney disease mortality decreased in recent years.

**Kidney Disease: Age-Adjusted Mortality Trends**  
(Annual Average Deaths per 100,000 Population)



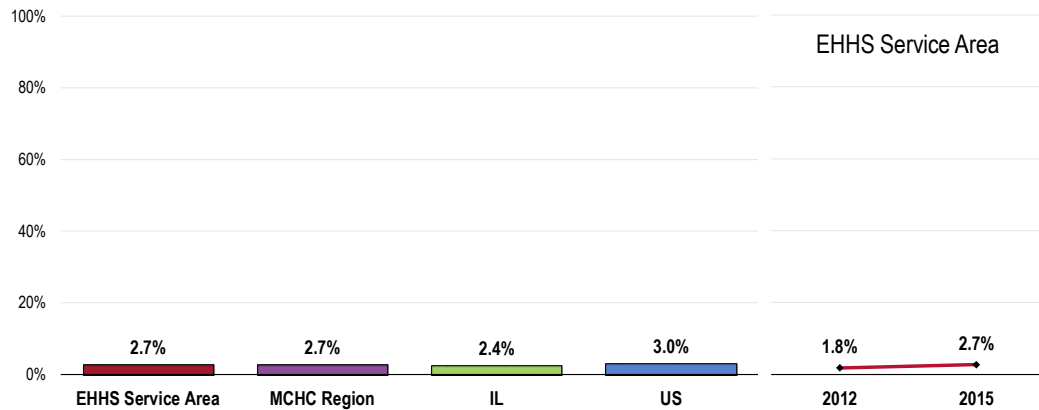
- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

## Prevalence of Kidney Disease

A total of 2.7% of area adults report having been diagnosed with kidney disease.

- Similar to the MCHC Region.
- Similar to the state proportion.
- Similar to the national proportion.
- TREND: Statistically unchanged since 2012.

### Prevalence of Kidney Disease

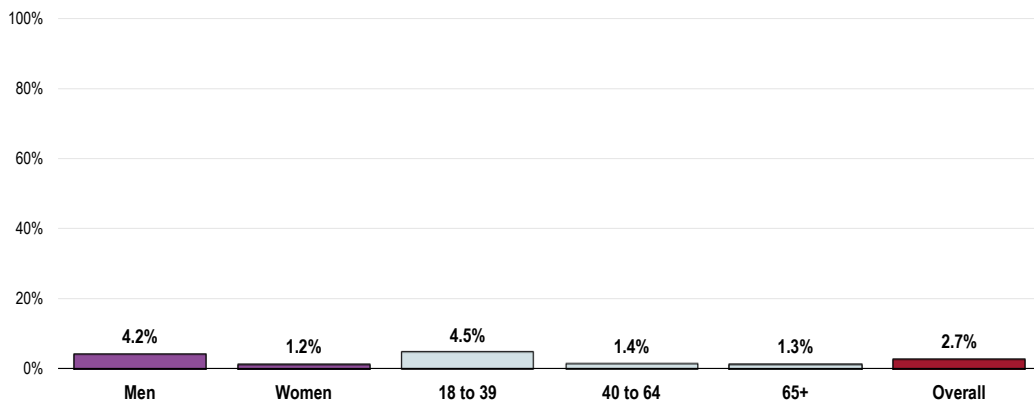


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 33]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.

Notes: • Asked of all respondents.

- The prevalence of kidney disease does not differ significantly by demographic characteristics.

### Prevalence of Kidney Disease (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 33]  
 Notes: • Asked of all respondents.

### ***Key Informant Input: Chronic Kidney Disease***

Half of key informants taking part in an online survey characterized *Chronic Kidney Disease* as a “moderate problem” in the community.

### **Perceptions of Chronic Kidney Disease as a Problem in the Community**

(Key Informants, 2015)

■ Major Problem   ■ Moderate Problem   ■ Minor Problem   ■ No Problem At All



Sources: • 2015 PRC Online Key Informant Survey.

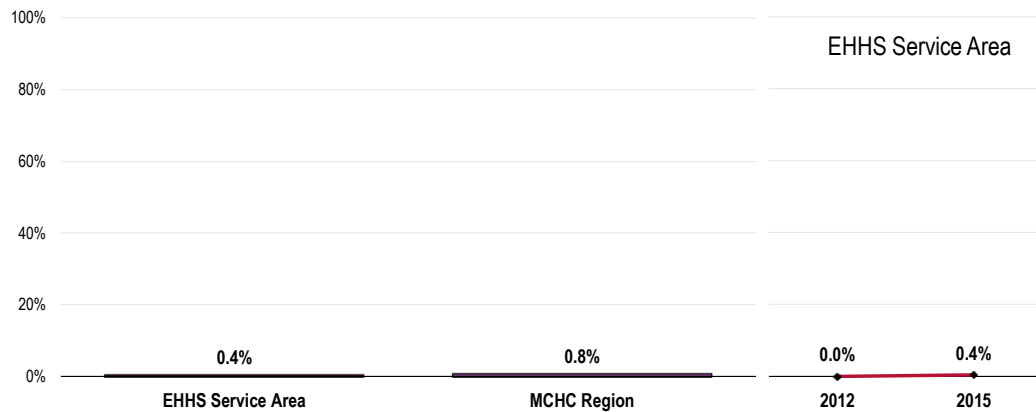
## Sickle-Cell Anemia

### Prevalence of Sickle-Cell Anemia

A total of 0.4% of Edward Hospital Service Area adults report having been diagnosed with sickle-cell anemia.

- Similar to the MCHC Region.
- TREND: Statistically unchanged since 2012.

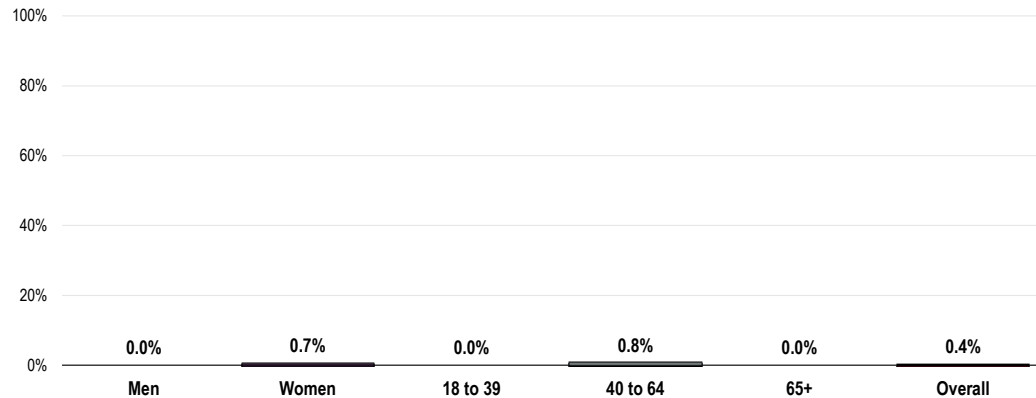
### Prevalence of Sickle-Cell Anemia



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 302]  
 Notes: • Asked of all respondents.

- The prevalence of sickle-cell anemia does not differ significantly by demographic characteristics.

### Prevalence of Sickle-Cell Anemia (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 302]  
 Notes: • Asked of all respondents.

## Potentially Disabling Conditions

### About Arthritis, Osteoporosis & Chronic Back Conditions

There are more than 100 types of arthritis. Arthritis commonly occurs with other chronic conditions, such as diabetes, heart disease, and obesity. Interventions to treat the pain and reduce the functional limitations from arthritis are important, and may also enable people with these other chronic conditions to be more physically active. Arthritis affects 1 in 5 adults and continues to be the most common cause of disability. It costs more than \$128 billion per year. All of the human and economic costs are projected to increase over time as the population ages. There are interventions that can reduce arthritis pain and functional limitations, but they remain underused. These include: increased physical activity; self-management education; and weight loss among overweight/obese adults.

Osteoporosis is a disease marked by reduced bone strength leading to an increased risk of fractures (broken bones). In the United States, an estimated 5.3 million people age 50 years and older have osteoporosis. Most of these people are women, but about 0.8 million are men. Just over 34 million more people, including 12 million men, have low bone mass, which puts them at increased risk for developing osteoporosis. Half of all women and as many as 1 in 4 men age 50 years and older will have an osteoporosis-related fracture in their lifetime.

Chronic back pain is common, costly, and potentially disabling. About 80% of Americans experience low back pain in their lifetime. It is estimated that each year:

- 15%-20% of the population develop protracted back pain.
- 2-8% have chronic back pain (pain that lasts more than 3 months).
- 3-4% of the population is temporarily disabled due to back pain.
- 1% of the working-age population is disabled completely and permanently as a result of low back pain.

Americans spend at least \$50 billion each year on low back pain. Low back pain is the:

- 2<sup>nd</sup> leading cause of lost work time (after the common cold).
- 3<sup>rd</sup> most common reason to undergo a surgical procedure.
- 5<sup>th</sup> most frequent cause of hospitalization.

Arthritis, osteoporosis, and chronic back conditions all have major effects on quality of life, the ability to work, and basic activities of daily living.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

## Arthritis, Osteoporosis, & Chronic Back Conditions

### Prevalence of Arthritis/Rheumatism

**Just over 4 in 10 Edward Hospital Service Area adults age 50 and older (41.8%) report suffering from arthritis or rheumatism.**

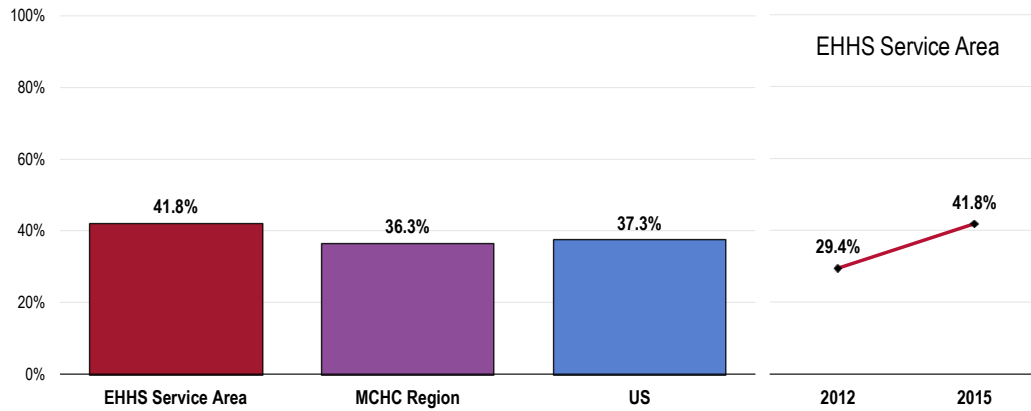
- Similar to the MCHC Region.
- Similar to that found nationwide.
- TREND: The prevalence of arthritis/rheumatism has increased significantly since 2012.

#### RELATED ISSUE:

See also *Activity Limitations* in the **General Health Status** section of this report.



### Prevalence of Arthritis/Rheumatism (Among Adults Age 50 and Older)



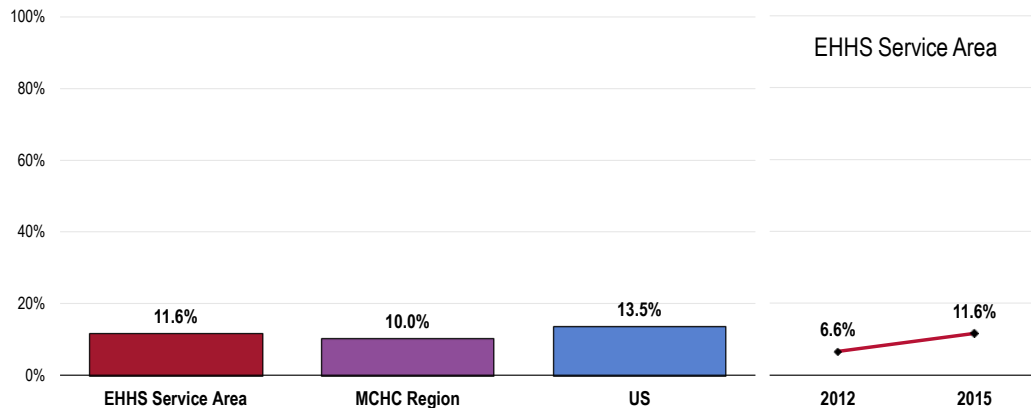
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 139]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Reflects respondents age 50 and older.

### Prevalence of Osteoporosis

A total of 11.6% of survey respondents age 50 and older have osteoporosis.

- Similar to the MCHC Region.
- Similar to that found nationwide.
- Fails to satisfy the Healthy People 2020 target of 5.3% or lower.
- TREND: The increase since 2012 is not statistically significant.

### Prevalence of Osteoporosis (Among Adults Age 50 and Older) Healthy People 2020 Target = 5.3% or Lower



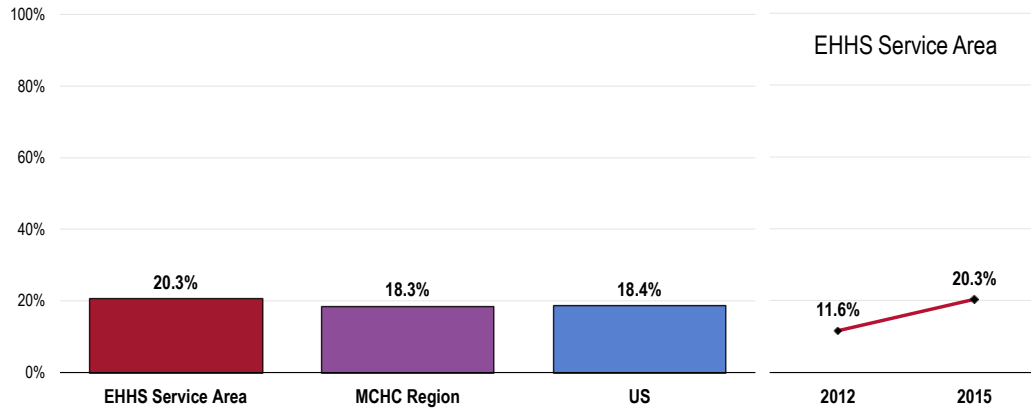
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 140]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective AOCBC-10]  
 Notes: • Reflects respondents age 50 and older.

### Prevalence of Sciatica/Chronic Back Pain

A total of 20.3% of survey respondents suffer from chronic back pain or sciatica.

- Similar to the MCHC Region.
- Similar to that found nationwide.
- TREND: Significantly increased over time.

### Prevalence of Sciatica/Chronic Back Pain



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 29]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

### Key Informant Input: Arthritis, Osteoporosis & Chronic Back Conditions

Two in three key informants taking part in an online survey characterized *Arthritis, Osteoporosis & Chronic Back Conditions* as a “moderate problem” in the community.

### Perceptions of Arthritis/Osteoporosis/Back Conditions as a Problem in the Community

(Key Informants, 2015)

■ Major Problem    ■ Moderate Problem    ■ Minor Problem    ■ No Problem At All



Sources: • 2015 PRC Online Key Informant Survey.

## Vision & Hearing Impairment

### About Vision

Vision is an essential part of everyday life, influencing how Americans of all ages learn, communicate, work, play, and interact with the world. Yet millions of Americans live with visual impairment, and many more remain at risk for eye disease and preventable eye injury.

The eyes are an important, but often overlooked, part of overall health. Despite the preventable nature of some vision impairments, many people do not receive recommended screenings and exams. A visit to an eye care professional for a comprehensive dilated eye exam can help to detect common vision problems and eye diseases, including diabetic retinopathy, glaucoma, cataract, and age-related macular degeneration.

These common vision problems often have no early warning signs. If a problem is detected, an eye care professional can prescribe corrective eyewear, medicine, or surgery to minimize vision loss and help a person see his or her best.

Healthy vision can help to ensure a healthy and active lifestyle well into a person's later years. Educating and engaging families, communities, and the nation is critical to ensuring that people have the information, resources, and tools needed for good eye health.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Vision Trouble

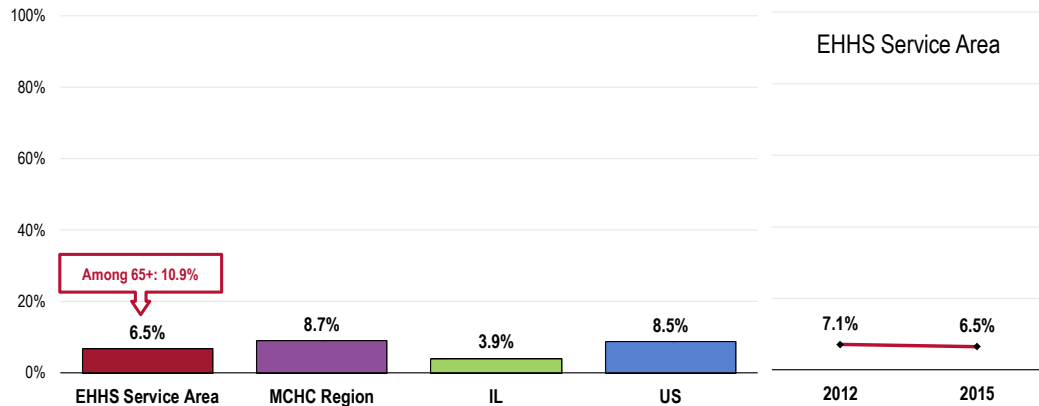
**A total of 6.5% of Edward Hospital Service Area adults are blind or have trouble seeing even when wearing corrective lenses.**

- Similar to the MCHC Region.
- Less favorable than the statewide prevalence.
- Similar to that found nationwide.
- TREND: No significant change over time.
- Among area adults age 65 and older, 10.9% have vision trouble.

#### RELATED ISSUE:

See also *Vision Care* in the **Access to Health Services** section of this report.

## Prevalence of Blindness/Trouble Seeing



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 26]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.

Notes: • Asked of all respondents.

## Hearing Trouble

### About Hearing & Other Sensory or Communication Disorders

An impaired ability to communicate with others or maintain good balance can lead many people to feel socially isolated, have unmet health needs, have limited success in school or on the job. Communication and other sensory processes contribute to our overall health and well-being. Protecting these processes is critical, particularly for people whose age, race, ethnicity, gender, occupation, genetic background, or health status places them at increased risk.

Many factors influence the numbers of Americans who are diagnosed and treated for hearing and other sensory or communication disorders, such as social determinants (social and economic standings, age of diagnosis, cost and stigma of wearing a hearing aid, and unhealthy lifestyle choices). In addition, biological causes of hearing loss and other sensory or communication disorders include: genetics; viral or bacterial infections; sensitivity to certain drugs or medications; injury; and aging.

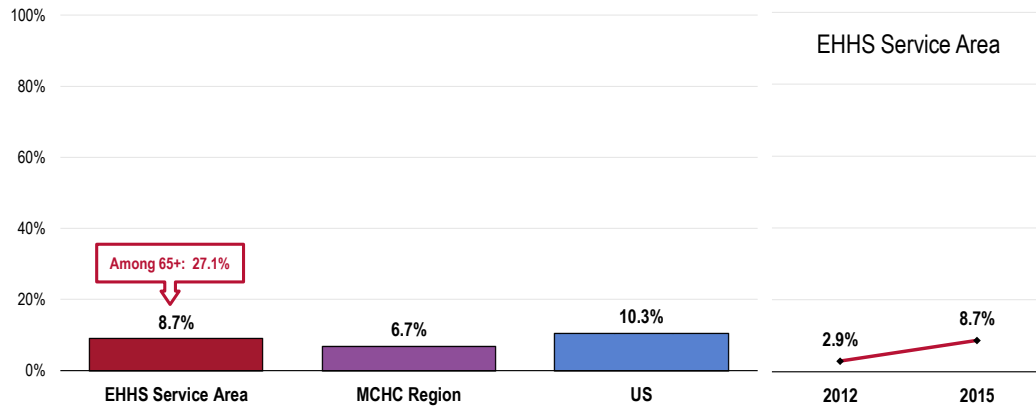
As the nation's population ages and survival rates for medically fragile infants and for people with severe injuries and acquired diseases improve, the prevalence of sensory and communication disorders is expected to rise.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

**In all, 8.7% of Edward Hospital Service Area adults report being deaf or having difficulty hearing.**

- Similar to the MCHC Region.
- Similar to that found nationwide.
- TREND: Statistically increased over time.
- Among Edward Hospital Service Area adults age 65 and older, 27.1% have partial or complete hearing loss.

### Prevalence of Deafness/Trouble Hearing



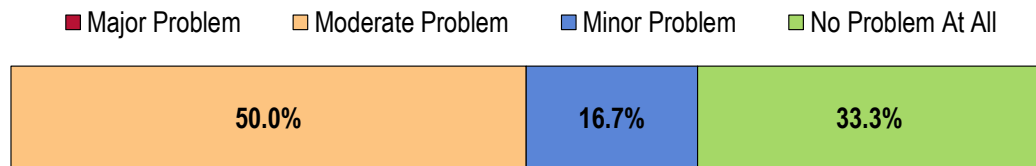
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 27]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

### Key Informant Input: Vision & Hearing

Key informants taking part in an online survey most often characterized *Vision & Hearing* as a “moderate problem” in the community.

### Perceptions of Hearing and Vision as a Problem in the Community

(Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

# Infectious Disease



**Professional Research Consultants, Inc.**

## Influenza & Pneumonia Vaccination

### About Influenza & Pneumonia

Acute respiratory infections, including pneumonia and influenza, are the 8th leading cause of death in the nation, accounting for 56,000 deaths annually. Pneumonia mortality in children fell by 97% in the last century, but respiratory infectious diseases continue to be leading causes of pediatric hospitalization and outpatient visits in the US. On average, influenza leads to more than 200,000 hospitalizations and 36,000 deaths each year. The 2009 H1N1 influenza pandemic caused an estimated 270,000 hospitalizations and 12,270 deaths (1,270 of which were of people younger than age 18) between April 2009 and March 2010.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Flu Vaccinations

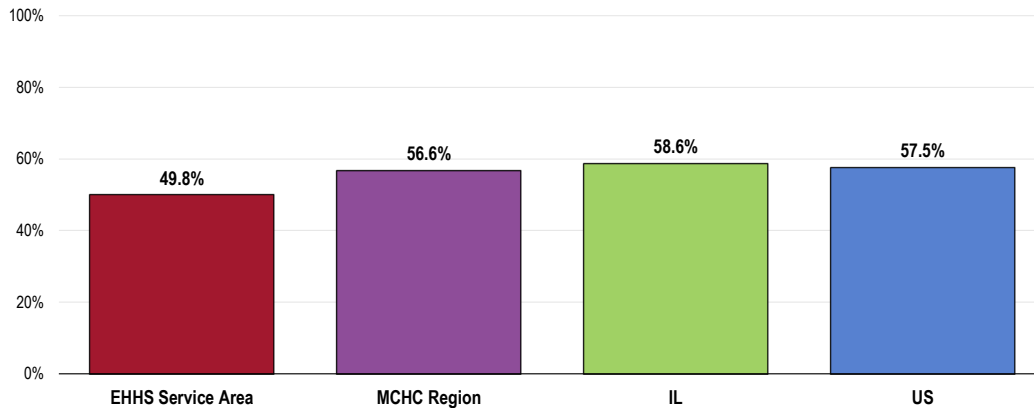
FluMist® is a vaccine that is sprayed into the nose to help protect against influenza; it is an alternative to traditional flu shots.

Among Edward Hospital Service Area seniors, 49.8% received a flu shot (or FluMist®) within the past year.

- Similar to the MCHC Region.
- Similar to the Illinois finding.
- Similar to the national finding.
- Fails to satisfy the Healthy People 2020 target (70% or higher).

### Older Adults: Have Had a Flu Vaccination in the Past Year (Among Adults Age 65+)

Healthy People 2020 Target = 70.0% or Higher



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 141]
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IID-12.12]
- Notes:
- Reflects respondents 65 and older.
  - Includes FluMist as a form of vaccination.

### High-Risk Adults

“High-risk” includes adults who report having been diagnosed with heart disease, diabetes or respiratory disease.

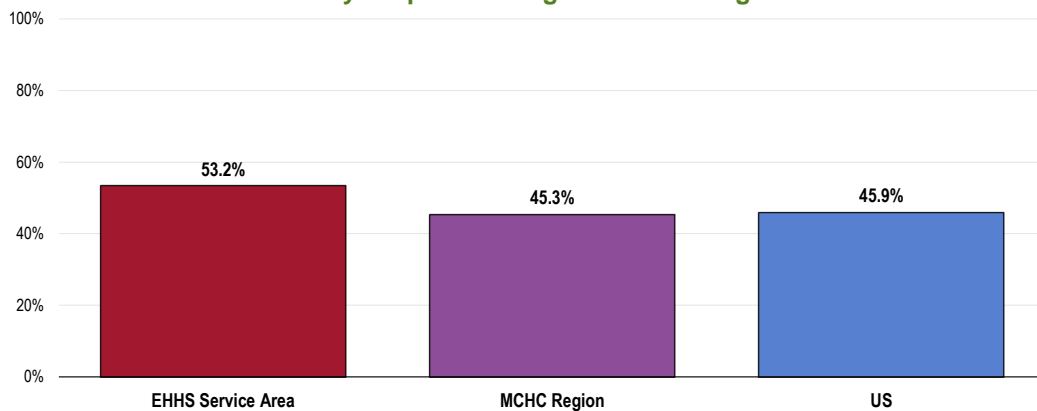
**A total of 53.2% of high-risk adults age 18 to 64 received a flu vaccination (flu shot or FluMist®) within the past year.**

- Similar to the MCHC Region.
- Similar to national findings.
- Fails to satisfy the Healthy People 2020 target (70% or higher).

### High-Risk Adults: Have Had a Flu Vaccination in the Past Year

(Among High-Risk Adults Age 18-64)

Healthy People 2020 Target = 70.0% or Higher



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 142]
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IID-12.12]
- Notes:
- Reflects high-risk respondents age 18-64.
  - “High-Risk” includes adults age 18 to 64 who have been diagnosed with heart disease, diabetes or respiratory disease.
  - Includes FluMist as a form of vaccination.

### Pneumonia Vaccination

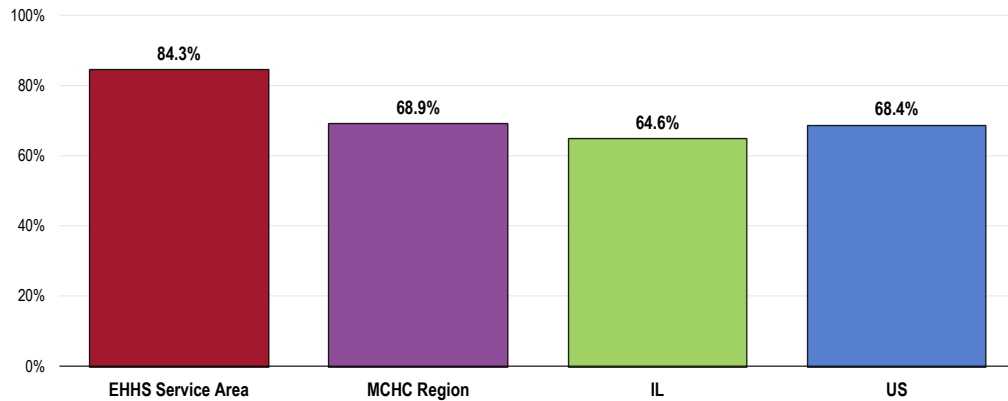
**Among adults age 65 and older, 84.3% have received a pneumonia vaccination at some point in their lives.**

- Higher than the MCHC Region.
- Higher than the Illinois finding.
- Higher than the national finding.
- Similar to the Healthy People 2020 target of 90% or higher.



## Older Adults: Have Ever Had a Pneumonia Vaccine (Among Adults Age 65+)

Healthy People 2020 Target = 90.0% or Higher



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 143]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IID-13.1]  
 Notes: • Reflects respondents 65 and older.

### High-Risk Adults

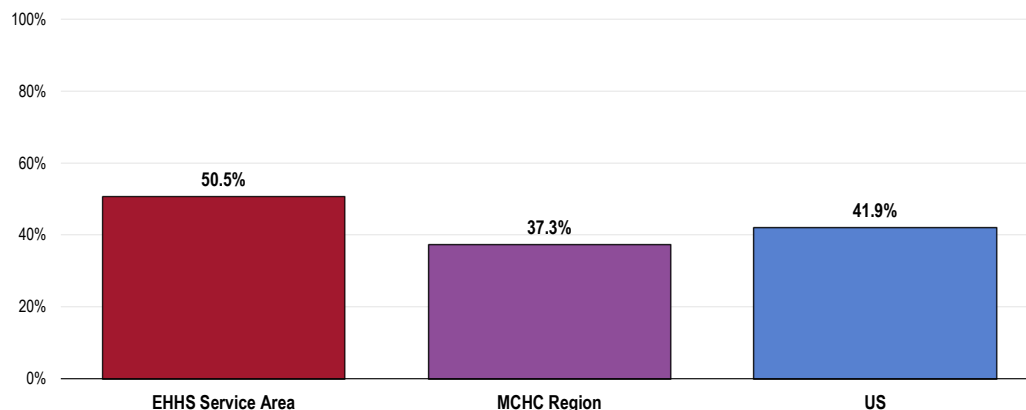
“High-risk” includes adults who report having been diagnosed with heart disease, diabetes or respiratory disease.

**A total of 50.5% of high-risk adults age 18 to 64 have ever received a pneumonia vaccination.**

- Higher than the MCHC Region.
- Similar to national findings.
- Similar to the Healthy People 2020 target (60% or higher).

## High-Risk Adults: Have Ever Had a Pneumonia Vaccine (Among High-Risk Adults Age 18-64)

Healthy People 2020 Target = 60.0% or Higher



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 144]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective IID-13.2]  
 Notes: • Asked of all high-risk respondents under 65.  
 • “High-Risk” includes adults age 18 to 64 who have been diagnosed with heart disease, diabetes or respiratory disease.

## HIV

### About HIV

The HIV epidemic in the United States continues to be a major public health crisis. An estimated 1.1 million Americans are living with HIV, and 1 in 5 people with HIV do not know they have it. HIV continues to spread, leading to about 56,000 new HIV infections each year.

HIV is a preventable disease, and effective HIV prevention interventions have been proven to reduce HIV transmission. People who get tested for HIV and learn that they are infected can make significant behavior changes to improve their health and reduce the risk of transmitting HIV to their sex or drug-using partners. More than 50% of new HIV infections occur as a result of the 21% of people who have HIV but do not know it.

In the era of increasingly effective treatments for HIV, people with HIV are living longer, healthier, and more productive lives. Deaths from HIV infection have greatly declined in the United States since the 1990s. As the number of people living with HIV grows, it will be more important than ever to increase national HIV prevention and healthcare programs.

There are gender, race, and ethnicity disparities in new HIV infections:

- Nearly 75% of new HIV infections occur in men.
- More than half occur in gay and bisexual men, regardless of race or ethnicity.
- 45% of new HIV infections occur in African Americans, 35% in whites, and 17% in Hispanics.

Improving access to quality healthcare for populations disproportionately affected by HIV, such as persons of color and gay and bisexual men, is a fundamental public health strategy for HIV prevention. People getting care for HIV can receive:

- Antiretroviral therapy
- Screening and treatment for other diseases (such as sexually transmitted infections)
- HIV prevention interventions
- Mental health services
- Other health services

As the number of people living with HIV increases and more people become aware of their HIV status, prevention strategies that are targeted specifically for HIV-infected people are becoming more important. Prevention work with people living with HIV focuses on:

- Linking to and staying in treatment.
- Increasing the availability of ongoing HIV prevention interventions.
- Providing prevention services for their partners.

Public perception in the US about the seriousness of the HIV epidemic has declined in recent years. There is evidence that risky behaviors may be increasing among uninfected people, especially gay and bisexual men. Ongoing media and social campaigns for the general public and HIV prevention interventions for uninfected persons who engage in risky behaviors are critical.

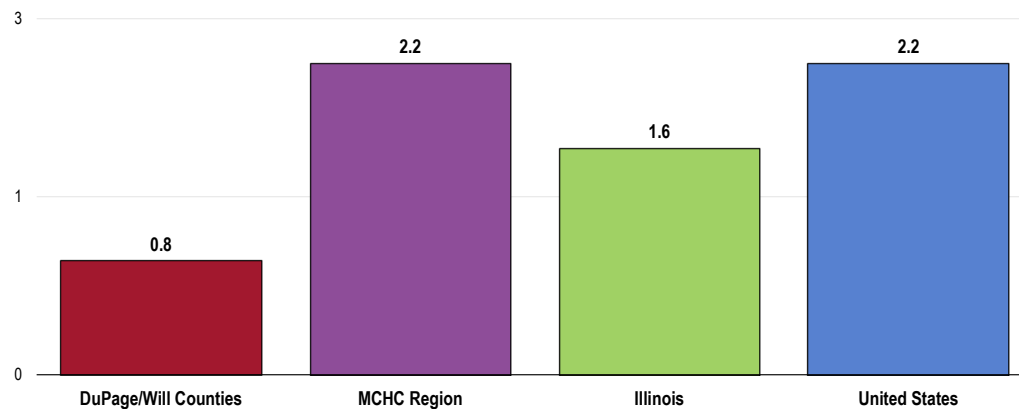
- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

## Age-Adjusted HIV/AIDS Deaths

Between 2011 and 2013, there was an annual average age-adjusted HIV/AIDS mortality rate of 0.8 deaths per 100,000 population in DuPage and Will counties.

- More favorable than the MCHC Region.
- More favorable than that found statewide.
- More favorable than the rate reported nationally.
- Satisfies the Healthy People 2020 target (3.3 or lower).

**HIV/AIDS: Age-Adjusted Mortality**  
(2011-2013 Annual Average Deaths per 100,000 Population)  
**Healthy People 2020 Target = 3.3 or Lower**



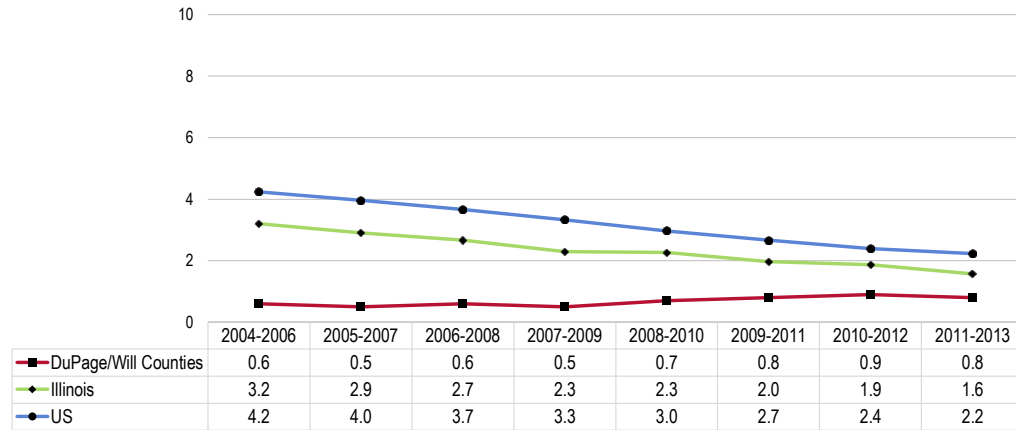
- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HIV-12]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- **TREND:** The HIV/AIDS mortality rate has remained steady over the past decade.

### HIV/AIDS: Age-Adjusted Mortality Trends

(Annual Average Deaths per 100,000 Population)

Healthy People 2020 Target = 3.3 or Lower

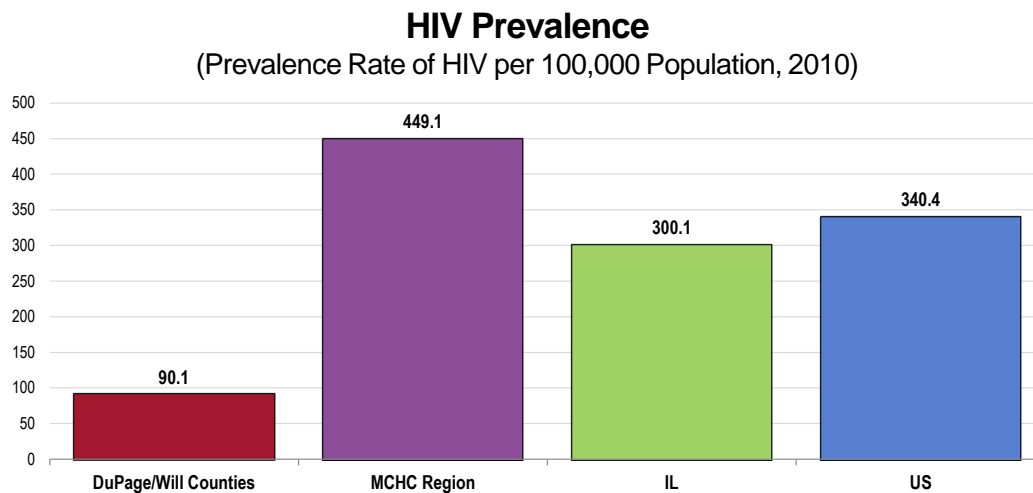


- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective HIV-12]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

### HIV Prevalence

In 2010, there was a prevalence of 90.1 HIV cases per 100,000 population in DuPage and Will counties.

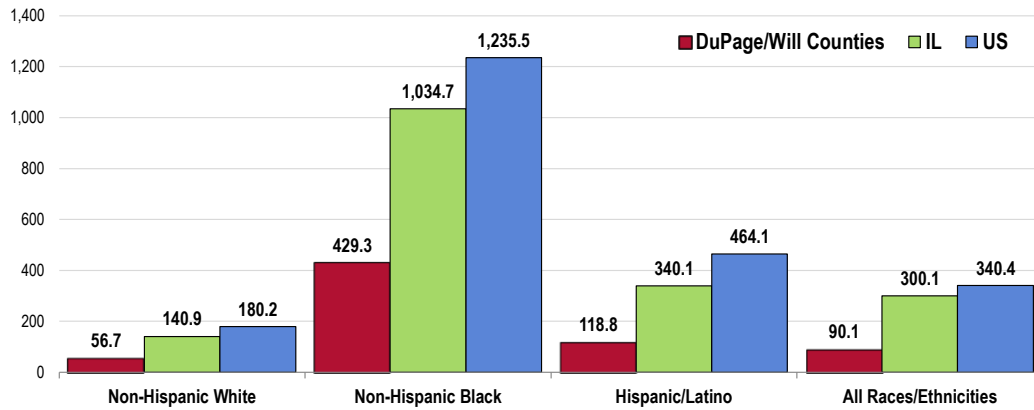
- Better than the MCHC Region.
- Better than the statewide prevalence.
- Better than the national prevalence.



- Sources:
- Centers for Disease Control and Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention: 2010.
  - Retrieved August 2015 from Community Commons at <http://www.chna.org>.
- Notes:
- This indicator is relevant because HIV is a life-threatening communicable disease that disproportionately affects minority populations and may also indicate the prevalence of unsafe sex practices.

- By race and ethnicity, HIV/AIDS prevalence in DuPage and Will counties is particularly high among non-Hispanic Blacks.

**HIV Prevalence Rate by Race/Ethnicity**  
(Prevalence Rate of HIV per 100,000 Population, 2010)



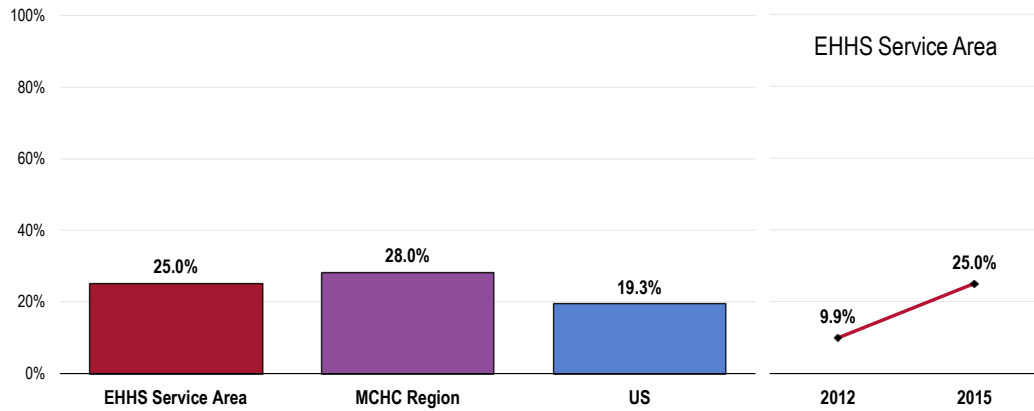
Sources: • Centers for Disease Control and Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention: 2010.  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.  
 Notes: • This indicator is relevant because HIV is a life-threatening communicable disease that disproportionately affects minority populations and may also indicate the prevalence of unsafe sex practices.

## HIV Testing

Among Edward Hospital Service Area adults age 18-44, 25.0% report that they have been tested for human immunodeficiency virus (HIV) in the past year.

- Similar to the MCHC Region.
- Similar to the proportion found nationwide.
- TREND: Testing has increased significantly since 2012.

### Tested for HIV in the Past Year (Among Adults Age 18-44)

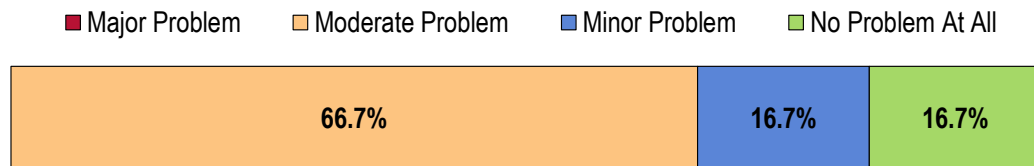


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 145]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Reflects respondents age 18 to 44.

### Key Informant Input: HIV/AIDS

Two in three key informants taking part in an online survey characterized *HIV/AIDS* as a “moderate problem” in the community.

### Perceptions of HIV/AIDS as a Problem in the Community (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

## Sexually Transmitted Diseases

### About Sexually Transmitted Diseases

STDs refer to more than 25 infectious organisms that are transmitted primarily through sexual activity. Despite their burdens, costs, and complications, and the fact that they are largely preventable, STDs remain a significant public health problem in the United States. This problem is largely unrecognized by the public, policymakers, and health care professionals. STDs cause many harmful, often irreversible, and costly clinical complications, such as: reproductive health problems; fetal and perinatal health problems; cancer; and facilitation of the sexual transmission of HIV infection.

Because many cases of STDs go undiagnosed—and some common viral infections, such as human papillomavirus (HPV) and genital herpes, are not reported to CDC at all—the reported cases of chlamydia, gonorrhea, and syphilis represent only a fraction of the true burden of STDs in the US. Untreated STDs can lead to serious long-term health consequences, especially for adolescent girls and young women. Several factors contribute to the spread of STDs.

**Biological Factors.** STDs are acquired during unprotected sex with an infected partner. Biological factors that affect the spread of STDs include:

- **Asymptomatic nature of STDs.** The majority of STDs either do not produce any symptoms or signs, or they produce symptoms so mild that they are unnoticed; consequently, many infected persons do not know that they need medical care.
- **Gender disparities.** Women suffer more frequent and more serious STD complications than men do. Among the most serious STD complications are pelvic inflammatory disease, ectopic pregnancy (pregnancy outside of the uterus), infertility, and chronic pelvic pain.
- **Age disparities.** Compared to older adults, sexually active adolescents ages 15 to 19 and young adults ages 20 to 24 are at higher risk for getting STDs.
- **Lag time between infection and complications.** Often, a long interval, sometimes years, occurs between acquiring an STD and recognizing a clinically significant health problem.

**Social, Economic and Behavioral Factors.** The spread of STDs is directly affected by social, economic, and behavioral factors. Such factors may cause serious obstacles to STD prevention due to their influence on social and sexual networks, access to and provision of care, willingness to seek care, and social norms regarding sex and sexuality. Among certain vulnerable populations, historical experience with segregation and discrimination exacerbates these factors. Social, economic, and behavioral factors that affect the spread of STDs include: racial and ethnic disparities; poverty and marginalization; access to healthcare; substance abuse; sexuality and secrecy (stigma and discomfort discussing sex); and sexual networks (persons “linked” by sequential or concurrent sexual partners).

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Chlamydia & Gonorrhea

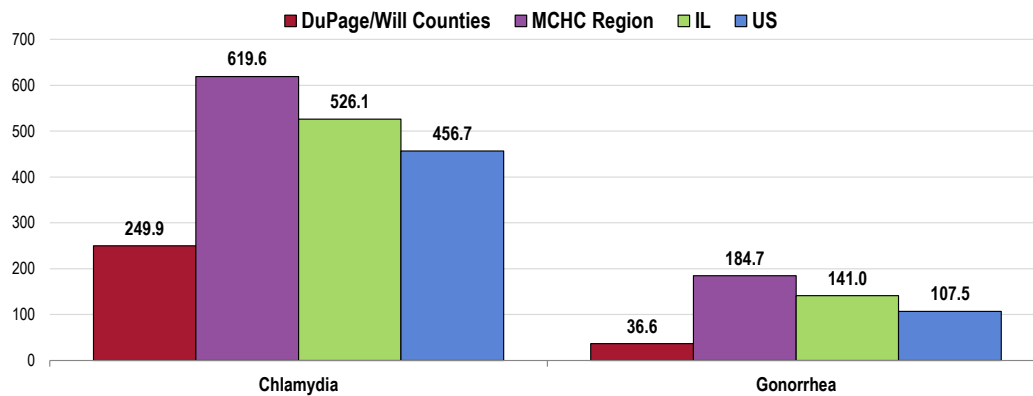
In 2012, the chlamydia incidence rate in the Edward Hospital Service Area was 249.9 cases per 100,000 population.

- Better than the MCHC Region.
- Better than the Illinois incidence rate.
- Better than the national incidence rate.

The gonorrhea incidence rate in the Edward Hospital Service Area was 36.6 cases per 100,000 population in 2012.

- Better than the MCHC Region.
- Better than the Illinois incidence rate.
- Better than the national incidence rate.

### Chlamydia & Gonorrhea Incidence (Incidence Rate per 100,000 Population, 2012)



Sources: • Centers for Disease Control and Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention: 2012.  
 • Retrieved August 2015 from Community Commons at <http://www.chna.org>.

Notes: • This indicator is relevant because it is a measure of poor health status and indicates the prevalence of unsafe sex practices.

### Hepatitis B Vaccination

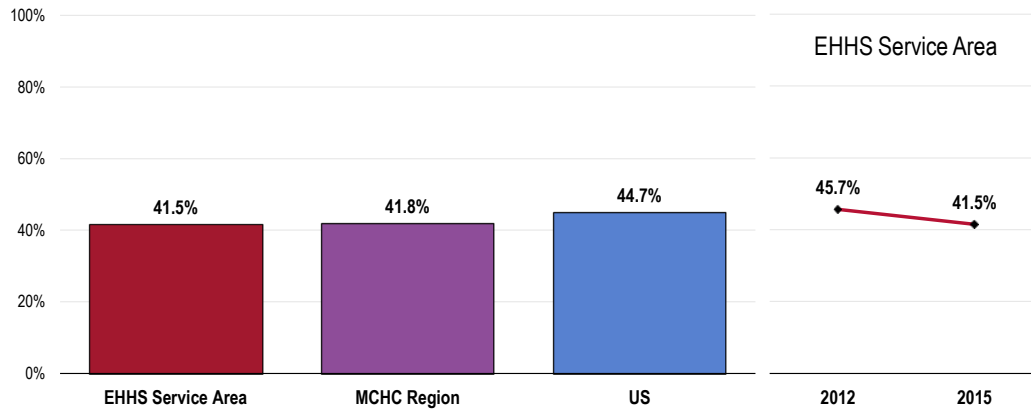
Based on survey data, just over 4 in 10 Edward Hospital Service Area adults (41.5%) report having received the hepatitis B vaccination series.

Respondents were told that, to be vaccinated against hepatitis B, a series of three shots must be administered, usually at least one month between shots. They were then asked if they had completed this vaccination series.

- Similar to the MCHC Region.
- Similar to what is reported nationwide.
- TREND: Statistically unchanged over time.



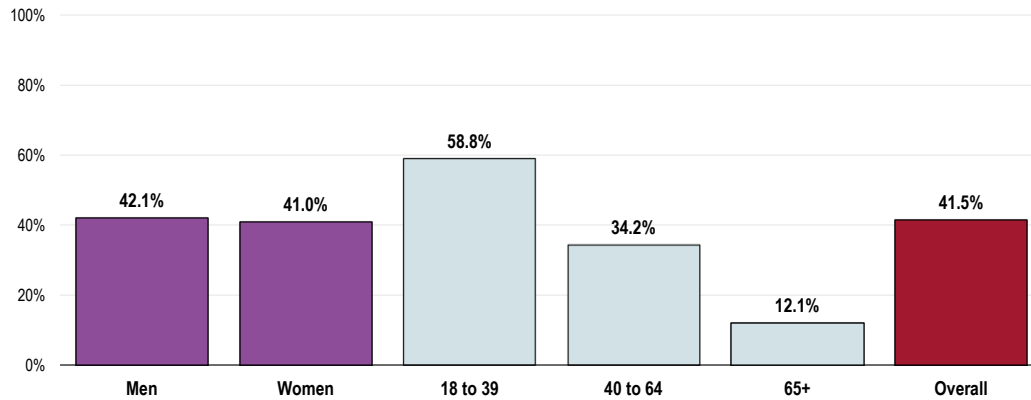
### Have Completed the Hepatitis B Vaccination Series



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 70]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.  
 • Includes a series of three shots, usually administered at least one month between shots.

- Note the negative correlation between age and hepatitis B vaccination.

### Have Completed the Hepatitis B Vaccination Series (EHHS Service Area, 2015)



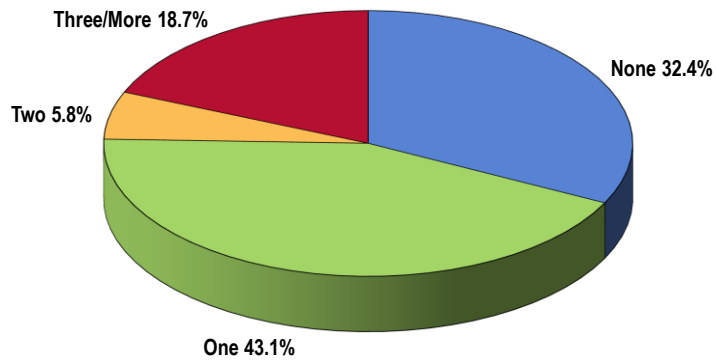
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 70]  
 Notes: • Asked of all respondents.

## Safe Sexual Practices

### Sexual Partners

Among unmarried Edward Hospital Service Area adults under 65, the majority cites having one (43.1%) or no (32.4%) sexual partners in the past 12 months.

**Number of Sexual Partners in Past 12 Months**  
(Among Unmarried Adults Age 18-64; EHHS Service Area, 2015)

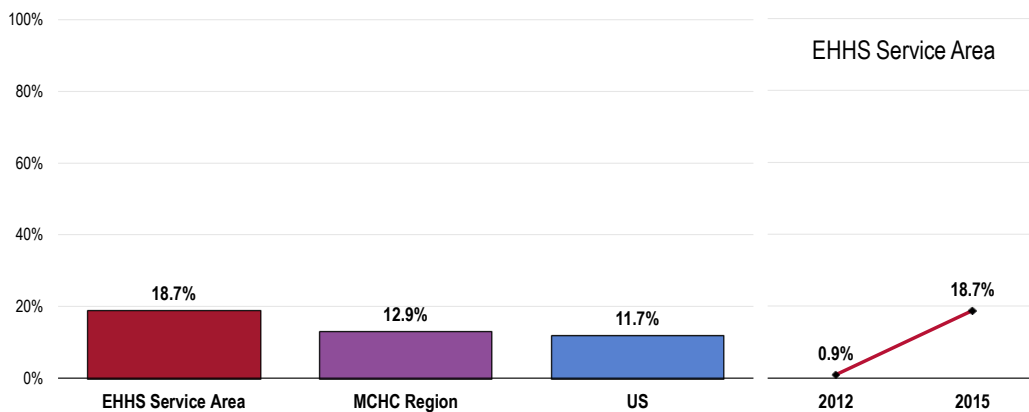


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 86]  
Notes: • Asked of all unmarried respondents under the age of 65.

However, 18.7% report three or more sexual partners in the past year.

- Similar to the MCHC Region.
- Similar to that reported nationally.
- TREND: Significantly increased since 2012.

**Had Three or More Sexual Partners in the Past Year**  
(Among Unmarried Adults Age 18-64)



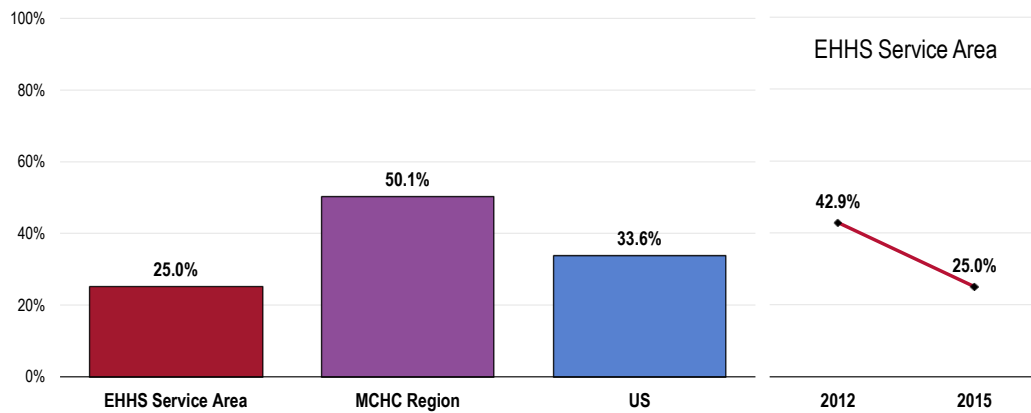
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 86]  
• 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
Notes: • Asked of all unmarried respondents under the age of 65.

### Condom Use

Among Edward Hospital Service Area adults who are under age 65 and unmarried, 25.0% report that a condom was used during their last sexual intercourse.

- Lower than the MCHC Region.
- Similar to national findings.
- TREND: Significantly decreased since 2012.

### Condom Was Used During Last Sexual Intercourse (Among Unmarried Adults Age 18-64)

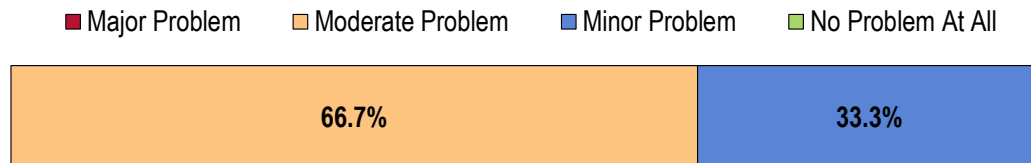


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 87]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all unmarried respondents under the age of 65.

### Key Informant Input: Sexually Transmitted Diseases

The largest share of key informants taking part in an online survey characterized *Sexually Transmitted Diseases* as a “moderate problem” in the community.

### Perceptions of Sexually Transmitted Diseases as a Problem in the Community (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

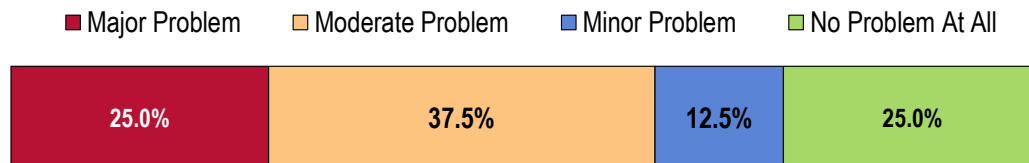
## Immunization & Infectious Diseases

### *Key Informant Input: Immunization & Infectious Diseases*

A plurality of key informants taking part in an online survey characterized *Immunization & Infectious Diseases* as a “moderate problem” in the community.

### Perceptions of Immunization and Infectious Diseases as a Problem in the Community

(Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

### Top Concerns

Among those rating this issue as a “major problem,” reasons frequently related to the following:

#### *Incomplete Immunizations*

*Incomplete immunizations, families deciding not to immunize children. – Social Service Representative*

# Births



Professional Research Consultants, Inc.

## Prenatal Care

### About Infant & Child Health

Improving the well-being of mothers, infants, and children is an important public health goal for the US. Their well-being determines the health of the next generation and can help predict future public health challenges for families, communities, and the healthcare system. The risk of maternal and infant mortality and pregnancy-related complications can be reduced by increasing access to quality preconception (before pregnancy) and inter-conception (between pregnancies) care. Moreover, healthy birth outcomes and early identification and treatment of health conditions among infants can prevent death or disability and enable children to reach their full potential. Many factors can affect pregnancy and childbirth, including pre-conception health status, age, access to appropriate healthcare, and poverty.

Infant and child health are similarly influenced by socio-demographic factors, such as family income, but are also linked to the physical and mental health of parents and caregivers. There are racial and ethnic disparities in mortality and morbidity for mothers and children, particularly for African Americans. These differences are likely the result of many factors, including social determinants (such as racial and ethnic disparities in infant mortality; family income; educational attainment among household members; and health insurance coverage) and physical determinants (i.e., the health, nutrition, and behaviors of the mother during pregnancy and early childhood).

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

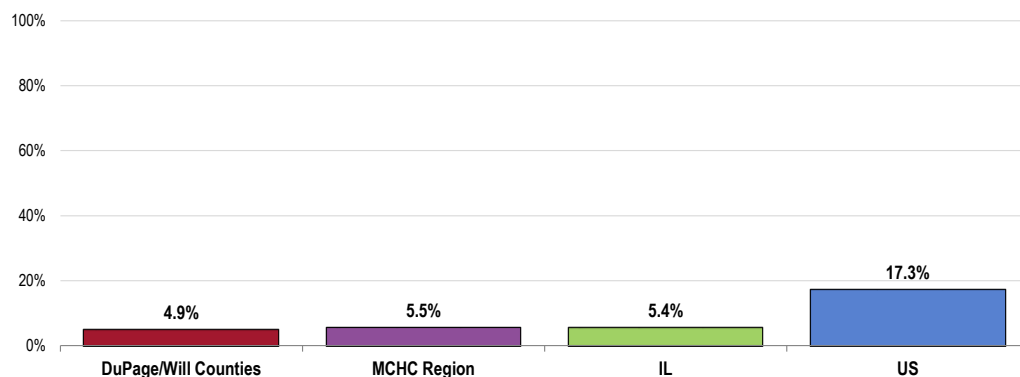
Early and continuous prenatal care is the best assurance of infant health.

**Between 2007 and 2010, 4.9% of all DuPage and Will counties births did not receive prenatal care in the first trimester of pregnancy.**

- Lower than the MCHC Region.
- Lower than the Illinois proportion.
- Much lower than the national proportion.
- Easily satisfies the Healthy People 2020 target (22.1% or lower).

### Lack of Prenatal Care in the First Trimester (Percentage of Live Births, 2007-2010)

Healthy People 2020 Target = 22.1% or Lower



Sources: • Retrieved August 2015 from Community Commons at <http://www.chna.org>.

• US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective MICH-10.1]

Note: • This indicator reports the percentage of women who do not obtain prenatal care during their first trimester of pregnancy. This indicator is relevant because engaging in prenatal care decreases the likelihood of maternal and infant health risks. This indicator can also highlight a lack of access to preventive care, a lack of health, knowledge insufficient provider outreach, and/or social barriers preventing utilization of services.

## Birth Outcomes & Risks

### Low-Weight Births

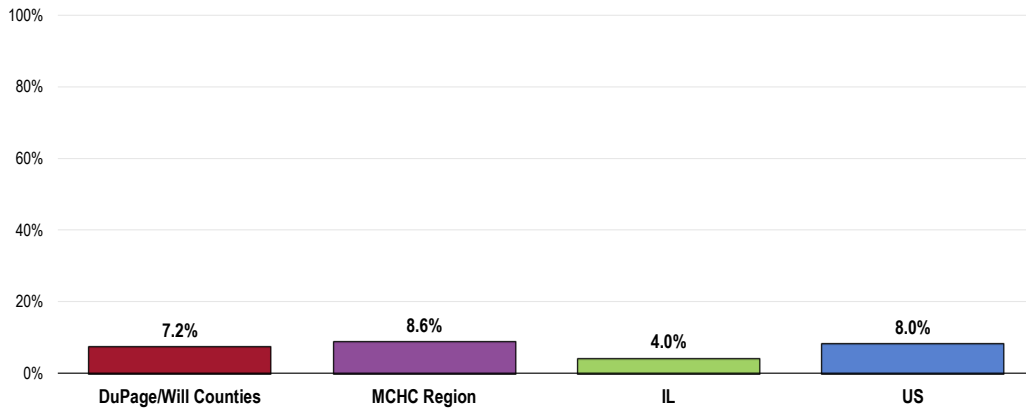
Low birthweight babies, those who weigh less than 2,500 grams (5 pounds, 8 ounces) at birth, are much more prone to illness and neonatal death than are babies of normal birthweight.

Largely a result of receiving poor or inadequate prenatal care, many low-weight births and the consequent health problems are preventable.

**A total of 7.2% of 2011-2013 DuPage and Will counties births were low-weight.**

- Lower than the MCHC Region.
- Higher than the Illinois proportion.
- Lower than the national proportion.
- Satisfies the Healthy People 2020 target (7.8% or lower).

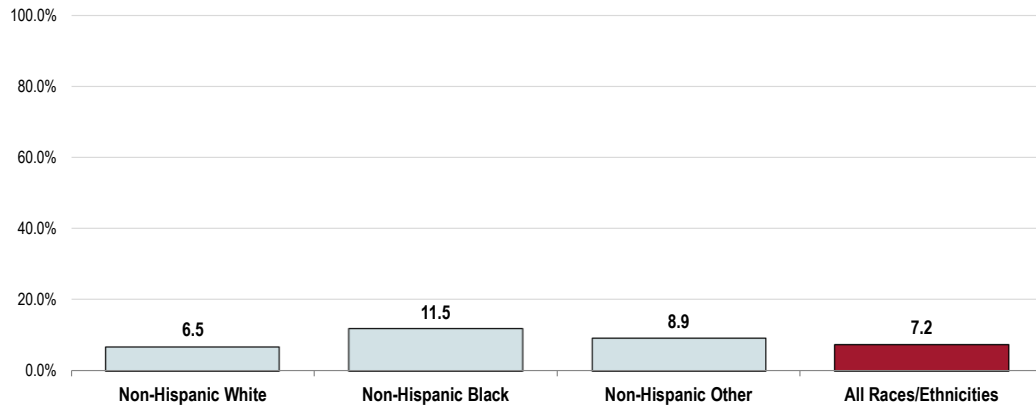
**Low-Weight Births**  
(Percent of Live Births, 2011-2013)  
**Healthy People 2020 Target = 7.8% or Lower**



Sources: • Centers for Disease Control and Prevention, National Vital Statistics System: 2006-12. Accessed using CDC WONDER.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective MICH-8.1]  
 Note: • This indicator reports the percentage of total births that are low birth weight (Under 2500g). This indicator is relevant because low birth weight infants are at high risk for health problems. This indicator can also highlight the existence of health disparities.

- Low-weight births are more prevalent among Blacks in DuPage and Will counties.

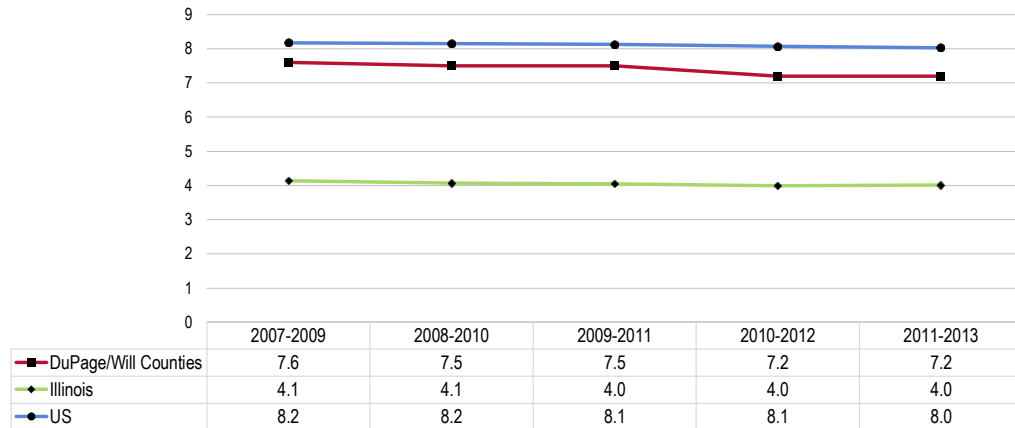
### Low-Weight Births by Race/Ethnicity (DuPage/Will Counties; Percent of Live Births, 2011-2013) Healthy People 2020 Target = 7.8% or Lower



Sources: • Centers for Disease Control and Prevention, National Vital Statistics System: 2011-13. Accessed using CDC WONDER.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective MICH-8.1]  
 Note: • This indicator reports the percentage of total births that are low birth weight (Under 2500g). This indicator is relevant because low birth weight infants are at high risk for health problems. This indicator can also highlight the existence of health disparities.

- **TREND:** The service area proportion of low-weight births remained stable over the past decade, in keeping with state and national trends.

### Low-Weight Births (DuPage/Will Counties; Percent of Live Births) Healthy People 2020 Target = 7.8% or Lower



Sources: • CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 • Centers for Disease Control and Prevention, National Center for Health Statistics.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective MICH-8.1]  
 Note: • This indicator reports the percentage of total births that are low birth weight (Under 2500g). This indicator is relevant because low birth weight infants are at high risk for health problems. This indicator can also highlight the existence of health disparities.



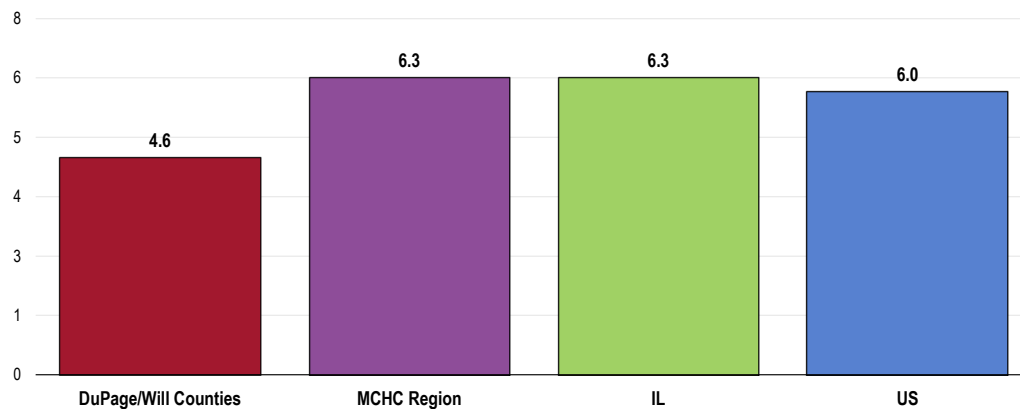
## Infant Mortality

Infant mortality rates reflect deaths of children less than one year old per 1,000 live births.

Between 2011 and 2013, there was an annual average of 4.6 infant deaths per 1,000 live births.

- Lower than the MCHC Region.
- Lower than the Illinois rate.
- Lower than the national rate.
- Satisfies the Healthy People 2020 target of 6.0 per 1,000 live births.

**Infant Mortality Rate**  
 (Annual Average Infant Deaths per 1,000 Live Births, 2011-2013)  
 Healthy People 2020 Target = 6.0 or Lower



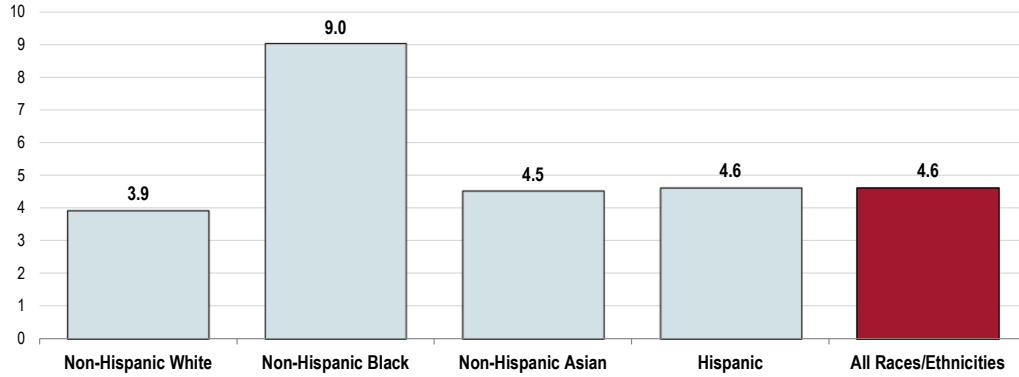
- Sources:
- Centers for Disease Control and Prevention, National Vital Statistics System: 2011-13. Accessed using CDC WONDER.
  - Retrieved August 2015 from Community Commons at <http://www.chna.org>.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective MICH-1.3]
- Notes:
- Infant deaths include deaths of children under 1 year old.
  - This indicator is relevant because high rates of infant mortality indicate the existence of broader issues pertaining to access to care and maternal and child health.

- By race, the infant mortality rate is considerably higher among births to Black mothers.

### Infant Mortality by Race/Ethnicity

(DuPage/Will Counties; Annual Average Infant Deaths per 1,000 Live Births, 2011-2013)

Healthy People 2020 Target = 6.0 or Lower



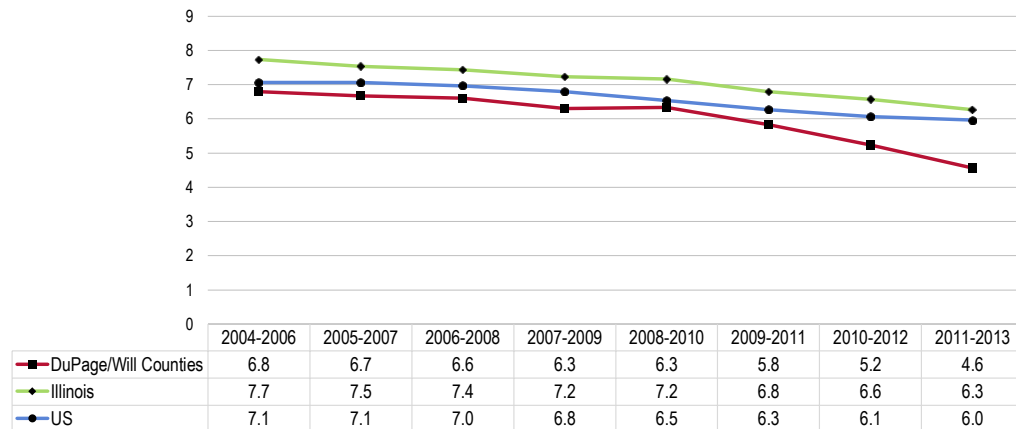
- Sources:
- Centers for Disease Control and Prevention, National Vital Statistics System: 2011-13. Accessed using CDC WONDER.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective MICH-1.3]
- Notes:
- Infant deaths include deaths of children under 1 year old.
  - This indicator is relevant because high rates of infant mortality indicate the existence of broader issues pertaining to access to care and maternal and child health.

- TREND:** The infant mortality rate decreased over the past decade in DuPage and Will counties, echoing the state and national trends.

### Infant Mortality Rate

(Annual Average Infant Deaths per 1,000 Live Births)

Healthy People 2020 Target = 6.0 or Lower



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - Centers for Disease Control and Prevention, National Center for Health Statistics.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective MICH-1.3]
- Notes:
- Rates are three-year averages of deaths of children under 1 year old per 1,000 live births.

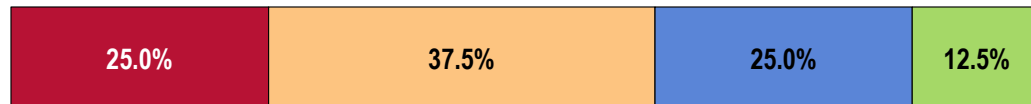
### ***Key Informant Input: Infant & Child Health***

Key informants taking part in an online survey generally characterized *Infant & Child Health* as a “moderate problem” in the community.

#### **Perceptions of Infant and Child Health as a Problem in the Community**

(Key Informants, 2015)

■ Major Problem   ■ Moderate Problem   ■ Minor Problem   ■ No Problem At All



Sources: • 2015 PRC Online Key Informant Survey.

## Family Planning

### Births to Teen Mothers

#### About Teen Births

The negative outcomes associated with unintended pregnancies are compounded for adolescents. Teen mothers:

- Are less likely to graduate from high school or attain a GED by the time they reach age 30.
- Earn an average of approximately \$3,500 less per year, when compared with those who delay childbearing.
- Receive nearly twice as much Federal aid for nearly twice as long.

Similarly, early fatherhood is associated with lower educational attainment and lower income. Children of teen parents are more likely to have lower cognitive attainment and exhibit more behavior problems. Sons of teen mothers are more likely to be incarcerated, and daughters are more likely to become adolescent mothers.

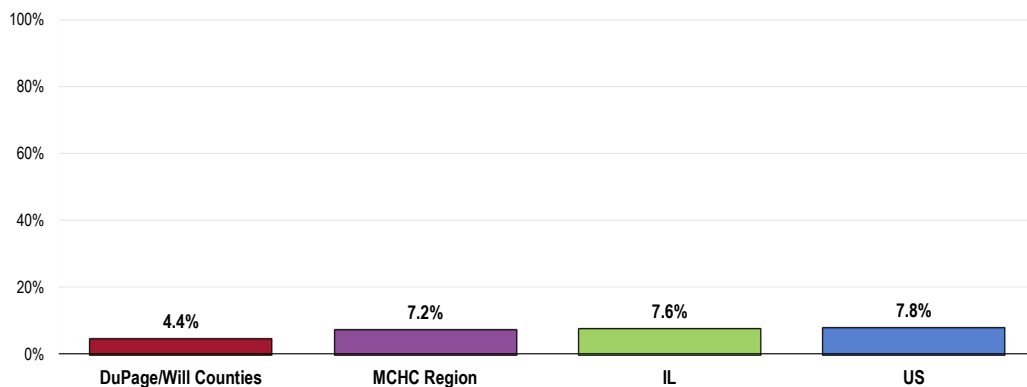
- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

**Between 2011 and 2013, 4.4% of live births in DuPage and Will counties were to mothers under age 20.**

- Lower than the MCHC Region.
- Lower than the Illinois proportion.
- Lower than the national proportion.

### Births to Teen Mothers

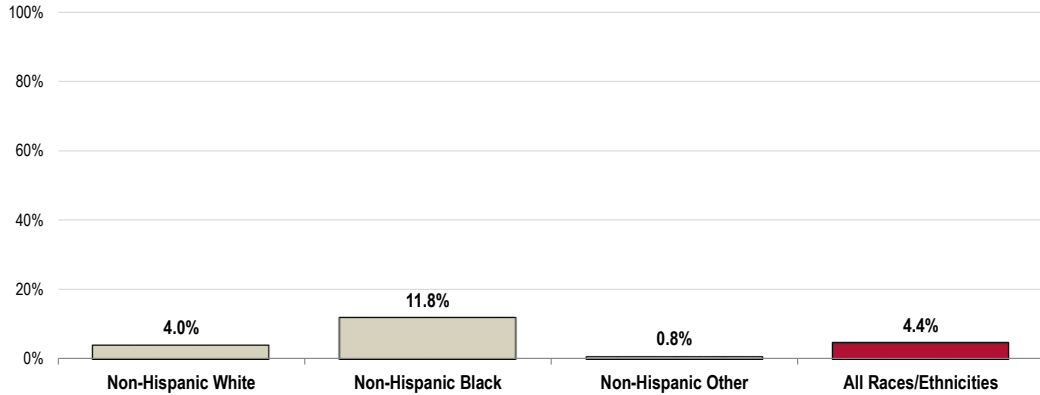
(Births to Women Under 20 as a Percentage of Live Births, 2011-2013)



Sources: • Centers for Disease Control and Prevention, National Vital Statistics System.  
 Note: • Numbers are a percentage of all live births within each population.

- By race and ethnicity, Blacks exhibit the largest proportion of teen births in DuPage and Will counties.

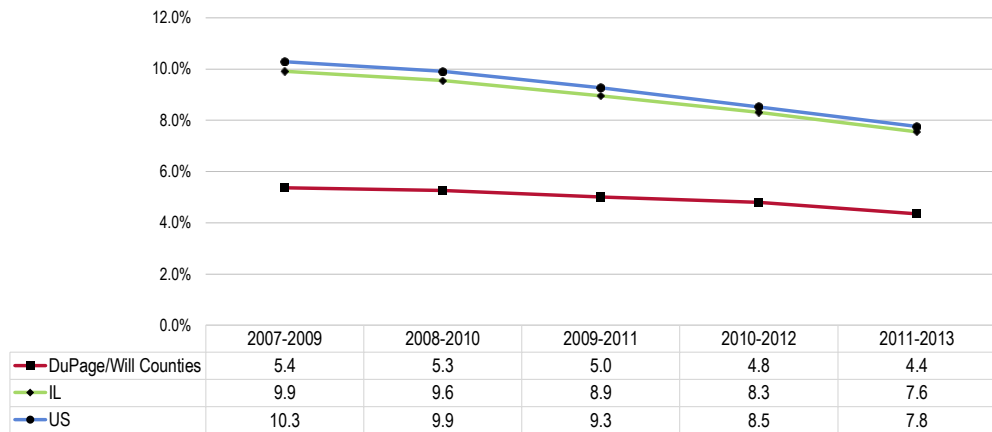
### Births to Teen Mothers (DuPage/Will Counties; Percentage of Live Births, 2011-2013)



Sources: • Centers for Disease Control and Prevention, National Vital Statistics System: 2011-20123 Accessed using CDC WONDER.  
 Note: • Numbers are a percentage of all live births within each population.

- TREND: This percentage decreased in DuPage and Will counties over the past decade, echoing the Illinois and US trends.

### Teen Birth Trends (Births to Women Under Age 20 as a Percentage of Life Births)



Sources: • Centers for Disease Control and Prevention, National Vital Statistics System: 2006-2012. Accessed using CDC WONDER.  
 Notes: • This indicator reports the rate of total births to women under the age of 20 per 1,000 female population under 20. This indicator is relevant because in many cases, teen parents have unique social, economic, and health support services. Additionally, high rates of teen pregnancy may indicate the prevalence of unsafe sex practices.

## Key Informant Input: Family Planning

Key informants taking part in an online survey largely characterized *Family Planning* as a “major problem” in the community.

### Perceptions of Family Planning as a Problem in the Community (Key Informants, 2015)

■ Major Problem    ■ Moderate Problem    ■ Minor Problem    ■ No Problem At All



Sources: • 2015 PRC Online Key Informant Survey.

### Top Concerns

Among those rating this issue as a “major problem,” reasons frequently related to the following:

#### Access to Care

*There is a lack of full choice and affordable services. District by district the schools teach a restricted agenda on full choice and sexual health information. In short, we don't equip our teens, young adults or adults with enough access and choices. – Social Service Representative*

*It's become more difficult for people to access if they are not adequately insured. – Social Service Representative*

# Modifiable Health Risks



Professional Research Consultants, Inc.

## Actual Causes of Death

### About Contributors to Mortality

A 1999 study (an update to a landmark 1993 study), estimated that as many as 40% of premature deaths in the United States are attributed to behavioral factors. This study found that behavior patterns represent the single-most prominent domain of influence over health prospects in the United States. The daily choices we make with respect to diet, physical activity, and sex; the substance abuse and addictions to which we fall prey; our approach to safety; and our coping strategies in confronting stress are all important determinants of health.

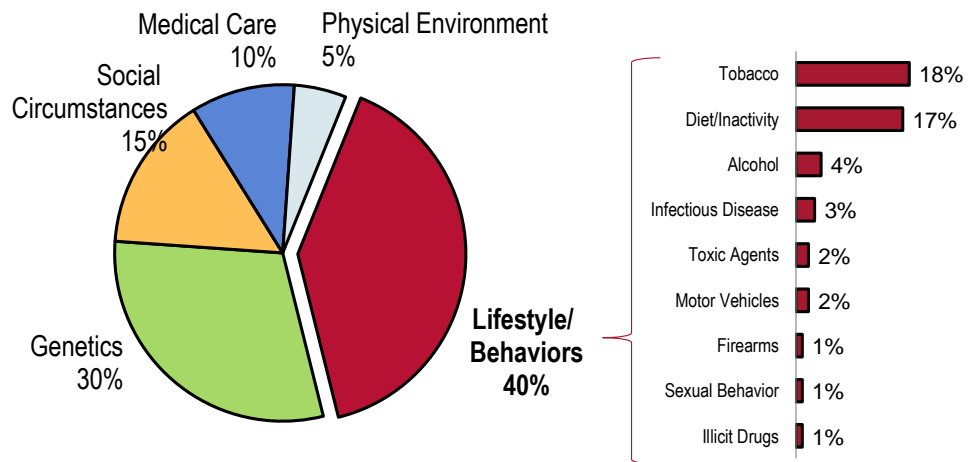
The most prominent contributors to mortality in the United States in 2000 were **tobacco** (an estimated 435,000 deaths), **diet and activity** patterns (400,000), **alcohol** (85,000), **microbial agents** (75,000), **toxic agents** (55,000), **motor vehicles** (43,000), **firearms** (29,000), **sexual behavior** (20,000), and **illicit use of drugs** (17,000). Socioeconomic status and access to medical care are also important contributors, but difficult to quantify independent of the other factors cited. Because the studies reviewed used different approaches to derive estimates, the stated numbers should be viewed as first approximations.

These analyses show that smoking remains the leading cause of mortality. However, poor diet and physical inactivity may soon overtake tobacco as the leading cause of death. These findings, along with escalating healthcare costs and aging population, argue persuasively that the need to establish a more preventive orientation in the US healthcare and public health systems has become more urgent.

- Ali H. Mokdad, PhD; James S. Marks, MD, MPH; Donna F. Stroup, PhD, MSc; Julie L. Gerberding, MD, MPH. "Actual Causes of Death in the United States." JAMA, 291(2004):1238-1245.

While causes of death are typically described as the diseases or injuries immediately precipitating the end of life, a few important studies have shown that the actual causes of premature death (reflecting underlying risk factors) are often preventable.

### Factors Contributing to Premature Deaths in the United States



Sources: • "The Case For More Active Policy Attention to Health Promotion"; (McGinnis, Williams-Russo, Knickman) Health Affairs. Vol. 32. No. 2. March/April 2002.  
 "Actual Causes of Death in the United States"; (Ali H. Mokdad, PhD; James S. Marks, MD, MPH; Donna F. Stroup, PhD, MSc; Julie L. Gerberding, MD, MPH.) JAMA. 291 (2000) 1238-1245.



Leading Causes of Death	Underlying Risk Factors (Actual Causes of Death)	
Cardiovascular Disease	Tobacco use Elevated serum cholesterol High blood pressure	Obesity Diabetes Sedentary lifestyle
Cancer	Tobacco use Improper diet	Alcohol Occupational/environmental exposures
Cerebrovascular Disease	High blood pressure Tobacco use	Elevated serum cholesterol
Accidental Injuries	Safety belt noncompliance Alcohol/substance abuse Reckless driving	Occupational hazards Stress/fatigue
Chronic Lung Disease	Tobacco use	Occupational/environmental exposures

Source: National Center for Health Statistics/US Department of Health and Human Services, Health United States: 1987. DHHS Pub. No. (PHS) 88-1232.

## Nutrition

### About Healthful Diet & Healthy Weight

Strong science exists supporting the health benefits of eating a healthful diet and maintaining a healthy body weight. Efforts to change diet and weight should address individual behaviors, as well as the policies and environments that support these behaviors in settings such as schools, worksites, healthcare organizations, and communities.

The goal of promoting healthful diets and healthy weight encompasses increasing household food security and eliminating hunger.

Americans with a healthful diet:

- Consume a variety of nutrient-dense foods within and across the food groups, especially whole grains, fruits, vegetables, low-fat or fat-free milk or milk products, and lean meats and other protein sources.
- Limit the intake of saturated and trans fats, cholesterol, added sugars, sodium (salt), and alcohol.
- Limit caloric intake to meet caloric needs.

Diet and body weight are related to health status. Good nutrition is important to the growth and development of children. A healthful diet also helps Americans reduce their risks for many health conditions, including: overweight and obesity; malnutrition; iron-deficiency anemia; heart disease; high blood pressure; dyslipidemia (poor lipid profiles); type 2 diabetes; osteoporosis; oral disease; constipation; diverticular disease; and some cancers.

Diet reflects the variety of foods and beverages consumed over time and in settings such as worksites, schools, restaurants, and the home. Interventions to support a healthier diet can help ensure that:

- Individuals have the knowledge and skills to make healthier choices.
- Healthier options are available and affordable.

**Social Determinants of Diet.** Demographic characteristics of those with a more healthful diet vary with the nutrient or food studied. However, most Americans need to improve some aspect of their diet.

Social factors thought to influence diet include:

- Knowledge and attitudes
- Skills
- Social support
- Societal and cultural norms
- Food and agricultural policies
- Food assistance programs
- Economic price systems

**Physical Determinants of Diet.** Access to and availability of healthier foods can help people follow healthful diets. For example, better access to retail venues that sell healthier options may have a positive impact on a person's diet; these venues may be less available in low-income or rural neighborhoods.

The places where people eat appear to influence their diet. For example, foods eaten away from home often have more calories and are of lower nutritional quality than foods prepared at home.

Marketing also influences people's—particularly children's—food choices.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

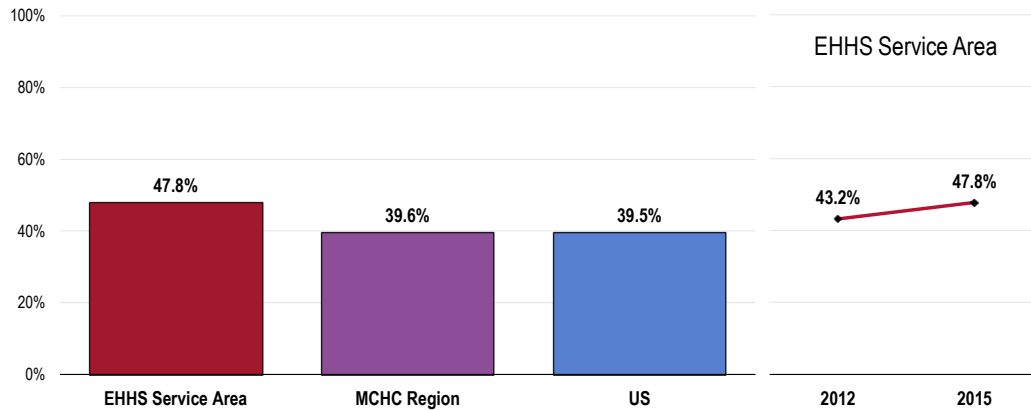
## Daily Recommendation of Fruits/Vegetables

A total of 47.8% of Edward Hospital Service Area adults report eating five or more servings of fruits and/or vegetables per day.

To measure fruit and vegetable consumption, survey respondents were asked multiple questions, specifically about the foods and drinks they consumed on the day prior to the interview.

- Better than the regional results.
- Better than national findings.
- TREND: Statistically unchanged over time.

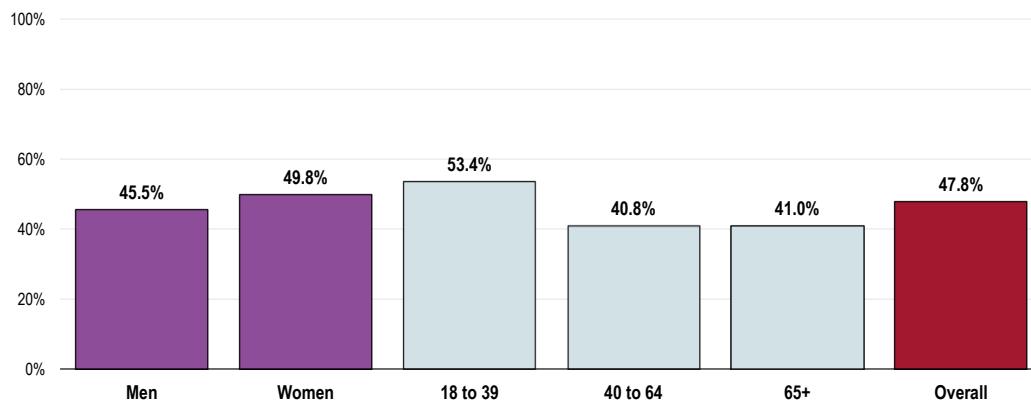
### Consume Five or More Servings of Fruits/Vegetables Per Day



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 146]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.  
 • For this issue, respondents were asked to recall their food intake on the previous day.

- Fruit/vegetable consumption does not differ significantly by demographic characteristics.

### Consume Five or More Servings of Fruits/Vegetables Per Day (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 146]  
 Notes: • Asked of all respondents; respondents were asked to recall their food intake on the previous day.

## Access to Fresh Produce

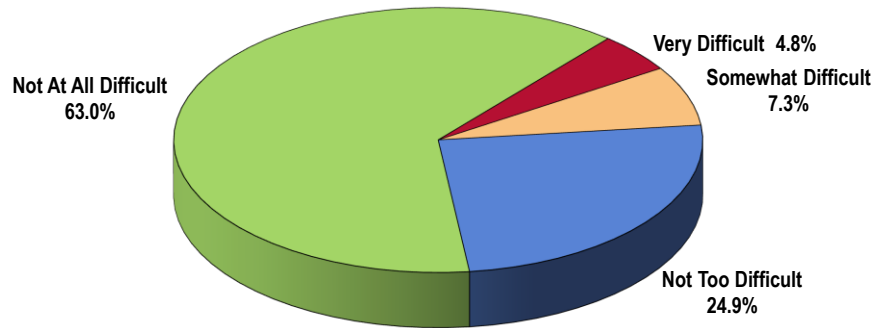
### Difficulty Accessing Fresh Produce

While most report little or no difficulty, 12.1% of area adults report that it is “very” or “somewhat” difficult for them to access affordable, fresh fruits and vegetables.

Respondents were asked:

“How difficult is it for you to buy fresh produce like fruits and vegetables at a price you can afford? Would you say: Very Difficult, Somewhat Difficult, Not Too Difficult, or Not At All Difficult?”

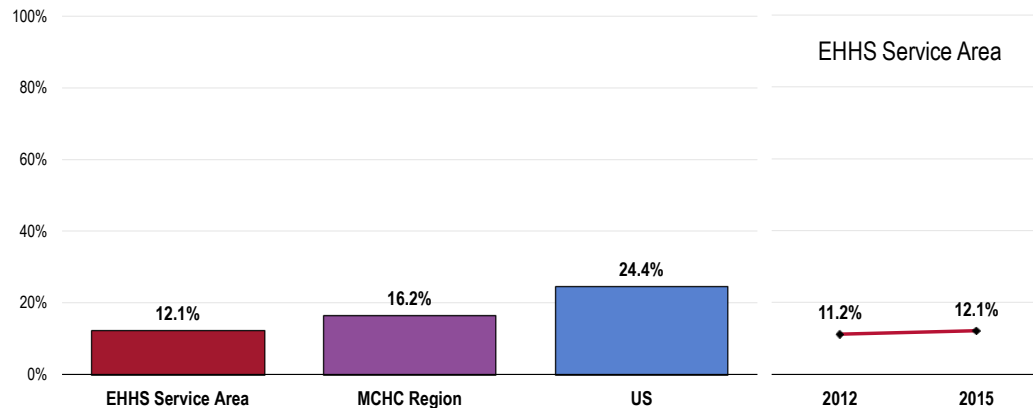
### Level of Difficulty Finding Fresh Produce at an Affordable Price (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 91]  
 Notes: • Asked of all respondents.

- Better than the regional results.
- Better than national findings.
- TREND: Statistically unchanged since 2012.

### Find It “Very” or “Somewhat” Difficult to Buy Affordable Fresh Produce

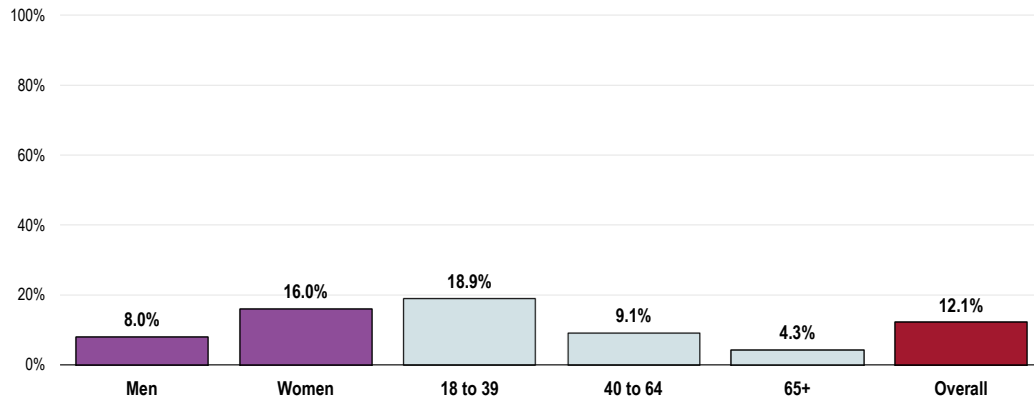


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 91]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

Those more likely to report difficulty getting fresh fruits and vegetables include:

- Women.
- Young adults (negative correlation with age).

**Find It “Very” or “Somewhat”  
Difficult to Buy Affordable Fresh Produce**  
(EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 91]  
Notes: • Asked of all respondents.

**Low Food Access (Food Deserts)**

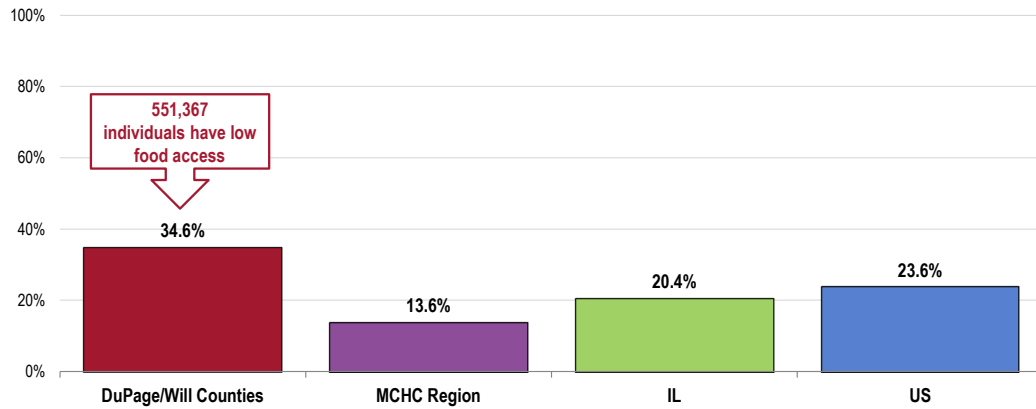
A food desert is defined as a low-income area where a significant number or share of residents is far from a supermarket, where "far" is more than 1 mile in urban areas and more than 10 miles in rural areas.

**US Department of Agriculture data show that 34.6% of the DuPage/Will County population (representing over 551,000 residents) have low food access or live in a “food desert,” meaning that they do not live near a supermarket or large grocery store.**

- Higher than the regional results.
- Higher than statewide findings.
- Higher than national findings.

### Population With Low Food Access

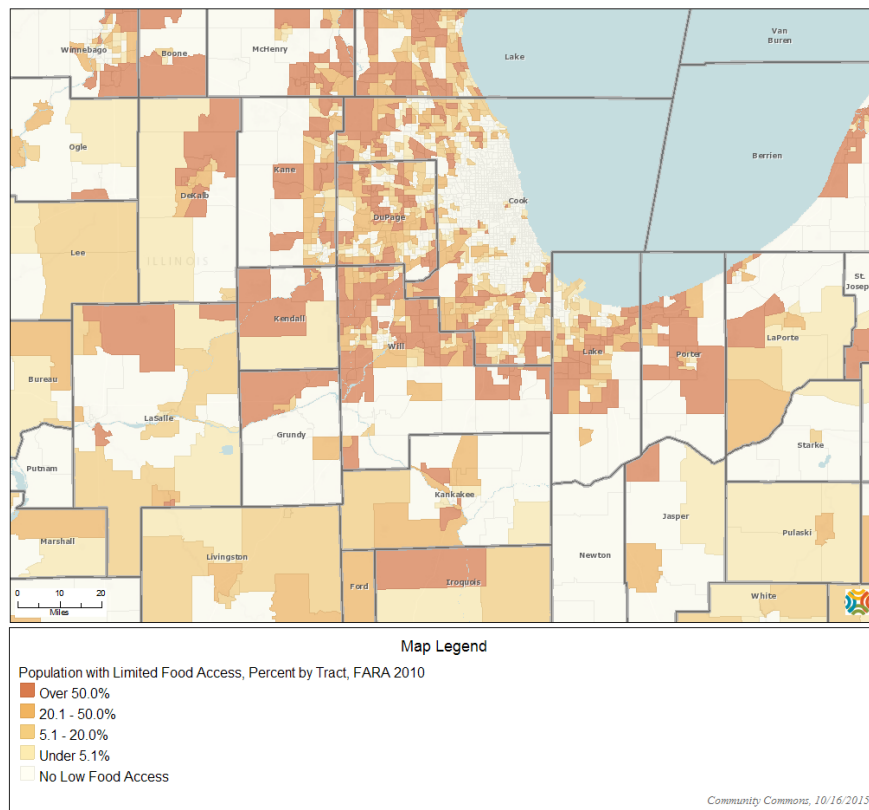
(Percent of Population That Is Far From a Supermarket or Large Grocery Store, 2010)



- Sources:
- US Department of Agriculture, Economic Research Service, USDA - Food Access Research Atlas (FARA): 2010.
  - Retrieved August 2015 from Community Commons at <http://www.chna.org>.
- Notes:
- This indicator reports the percentage of the population living in census tracts designated as food deserts. A food desert is defined as low-income areas where a significant number or share of residents is far from a supermarket, where "far" is more than 1 mile in urban areas and more than 10 miles in rural areas. This indicator is relevant because it highlights populations and geographies facing food insecurity.

- The following map provides an illustration of food deserts by census tract.

Population With Limited Food Access, Percent by Tract, FARA 2010

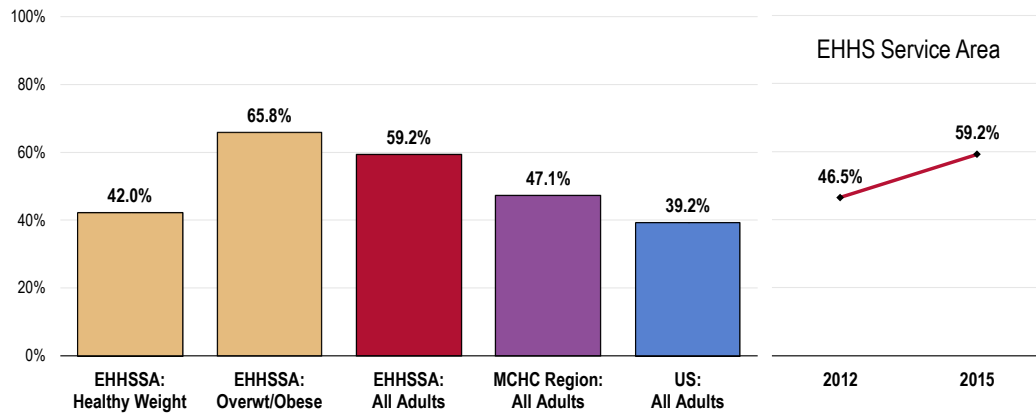


## Health Advice About Diet & Nutrition

A total of 59.2% of survey respondents acknowledge that a physician counseled them about diet and nutrition in the past year.

- Better than the regional results.
- Better than national findings.
- TREND: Marks a statistically significant increase since 2012.
- Note: Among overweight/obese respondents, 65.8% report receiving diet/nutrition advice (meaning that more than one-third did not).

### Have Received Advice About Diet and Nutrition in the Past Year From a Physician, Nurse, or Other Health Professional (By Weight Classification)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 18]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

## Physical Activity

### About Physical Activity

Regular physical activity can improve the health and quality of life of Americans of all ages, regardless of the presence of a chronic disease or disability. Among adults and older adults, physical activity can lower the risk of: early death; coronary heart disease; stroke; high blood pressure; type 2 diabetes; breast and colon cancer; falls; and depression. Among children and adolescents, physical activity can: improve bone health; improve cardiorespiratory and muscular fitness; decrease levels of body fat; and reduce symptoms of depression. For people who are inactive, even small increases in physical activity are associated with health benefits.

Personal, social, economic, and environmental factors all play a role in physical activity levels among youth, adults, and older adults. Understanding the barriers to and facilitators of physical activity is important to ensure the effectiveness of interventions and other actions to improve levels of physical activity.

Factors **positively** associated with adult physical activity include: postsecondary education; higher income; enjoyment of exercise; expectation of benefits; belief in ability to exercise (self-efficacy); history of activity in adulthood; social support from peers, family, or spouse; access to and satisfaction with facilities; enjoyable scenery; and safe neighborhoods.

Factors **negatively** associated with adult physical activity include: advancing age; low income; lack of time; low motivation; rural residency; perception of great effort needed for exercise; overweight or obesity; perception of poor health; and being disabled. Older adults may have additional factors that keep them from being physically active, including lack of social support, lack of transportation to facilities, fear of injury, and cost of programs.

Among children ages 4 to 12, the following factors have a positive association with physical activity: gender (boys); belief in ability to be active (self-efficacy); and parental support.

Among adolescents ages 13 to 18, the following factors have a positive association with physical activity: parental education; gender (boys); personal goals; physical education/school sports; belief in ability to be active (self-efficacy); and support of friends and family.

Environmental influences positively associated with physical activity among children and adolescents include:

- Presence of sidewalks
- Having a destination/walking to a particular place
- Access to public transportation
- Low traffic density
- Access to neighborhood or school play area and/or recreational equipment

People with disabilities may be less likely to participate in physical activity due to physical, emotional, and psychological barriers. Barriers may include the inaccessibility of facilities and the lack of staff trained in working with people with disabilities.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))



## Leisure-Time Physical Activity

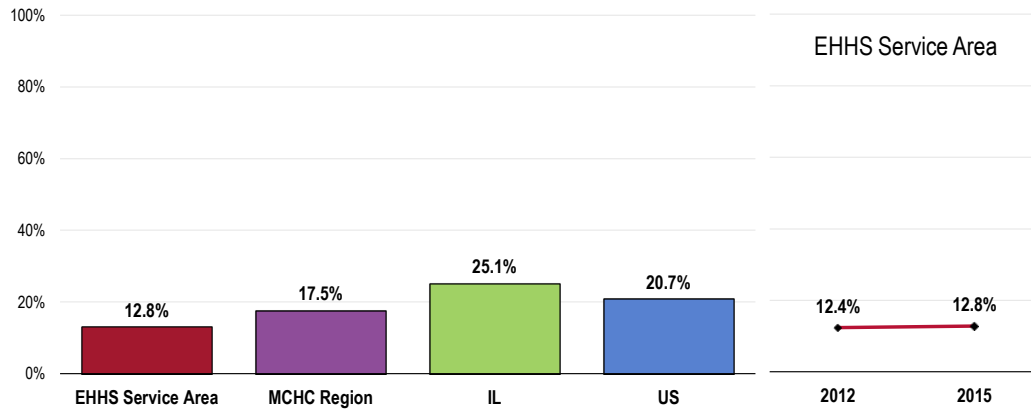
A total of 12.8% of Edward Hospital Service Area adults report no leisure-time physical activity in the past month.

Leisure-time physical activity includes any physical activities or exercises (such as running, calisthenics, golf, gardening, walking, etc.) which take place outside of one's line of work.

- Better than the regional results.
- Better than statewide findings.
- Better than national findings.
- Satisfies the Healthy People 2020 target (32.6% or lower).
- TREND: Statistically unchanged since 2012.

### No Leisure-Time Physical Activity in the Past Month

Healthy People 2020 Target = 32.6% or Lower



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 92]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective PA-1]

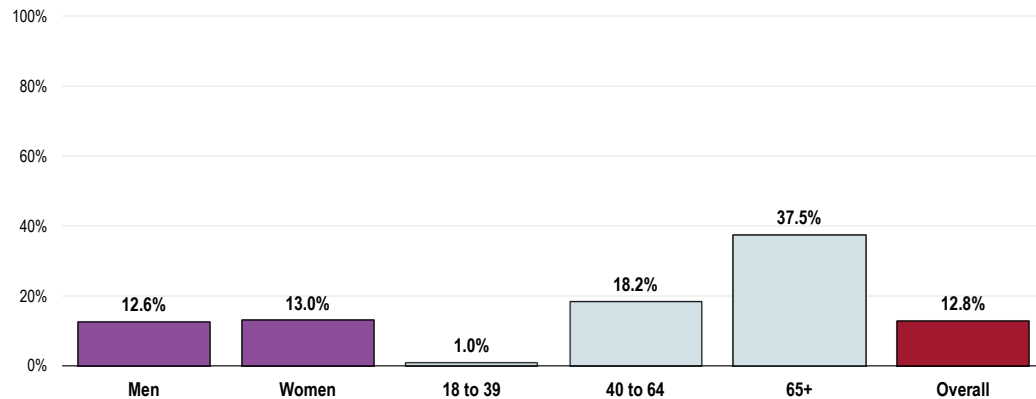
Notes: • Asked of all respondents.

Lack of leisure-time physical activity in the area is higher among older adults (positive correlation with age).

## No Leisure-Time Physical Activity in the Past Month

(EHHS Service Area, 2015)

Healthy People 2020 Target = 32.6% or Lower



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 92]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective PA-1]

Notes: • Asked of all respondents.

## Activity Levels

### Recommended Levels of Physical Activity

Adults (age 18–64) should do 2 hours and 30 minutes a week of moderate-intensity, or 1 hour and 15 minutes (75 minutes) a week of vigorous-intensity aerobic physical activity, or an equivalent combination of moderate- and vigorous-intensity aerobic physical activity. Aerobic activity should be performed in episodes of at least 10 minutes, preferably spread throughout the week.

Additional health benefits are provided by increasing to 5 hours (300 minutes) a week of moderate-intensity aerobic physical activity, or 2 hours and 30 minutes a week of vigorous-intensity physical activity, or an equivalent combination of both.

Older adults (age 65 and older) should follow the adult guidelines. If this is not possible due to limiting chronic conditions, older adults should be as physically active as their abilities allow. They should avoid inactivity. Older adults should do exercises that maintain or improve balance if they are at risk of falling.

For all individuals, some activity is better than none. Physical activity is safe for almost everyone, and the health benefits of physical activity far outweigh the risks.

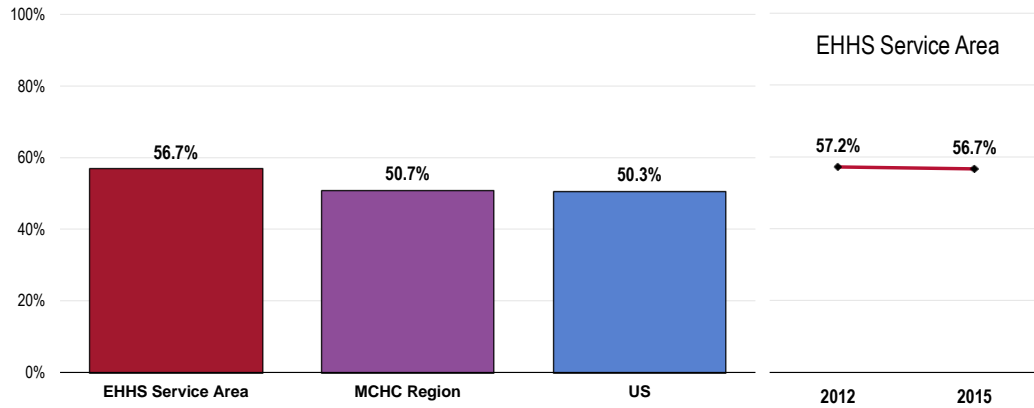
• 2008 Physical Activity Guidelines for Americans, U.S. Department of Health and Human Services. [www.health.gov/PAGuidelines](http://www.health.gov/PAGuidelines)

### Recommended Levels of Physical Activity

**A total of 56.7% of service area adults participate in regular, sustained moderate or vigorous physical activity (meeting physical activity recommendations).**

- Better than the regional results.
- Better than to national findings.
- TREND: Statistically unchanged since 2012.

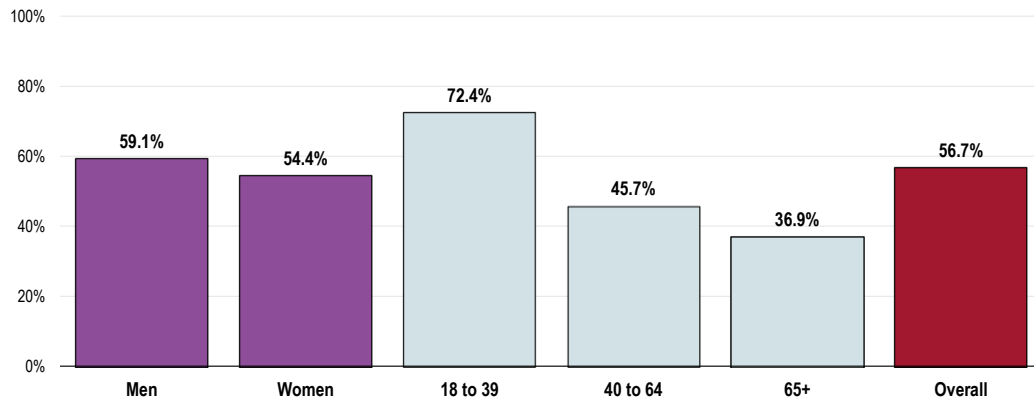
### Meets Physical Activity Recommendations



Sources: ● PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 147]  
 ● 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: ● Asked of all respondents.  
 ● In this case the term "meets physical activity recommendations" refers to participation in moderate physical activity (exercise that produces only light sweating or a slight to moderate increase in breathing or heart rate) at least 5 times a week for 30 minutes at a time, and/or vigorous physical activity (activities that cause heavy sweating or large increases in breathing or heart rate) at least 3 times a week for 20 minutes at a time.

Older residents are less likely to meet physical activity requirements (negative correlation with age).

### Meets Physical Activity Recommendations (EHHS Service Area, 2015)



Sources: ● 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 147]  
 Notes: ● Asked of all respondents.  
 ● In this case the term "meets physical activity recommendations" refers to participation in moderate physical activity (exercise that produces only light sweating or a slight to moderate increase in breathing or heart rate) at least 5 times a week for 30 minutes at a time, and/or vigorous physical activity (activities that cause heavy sweating or large increases in breathing or heart rate) at least 3 times a week for 20 minutes at a time.

### Moderate & Vigorous Physical Activity

In the past month:

The individual indicators of moderate and vigorous physical activity are shown here.

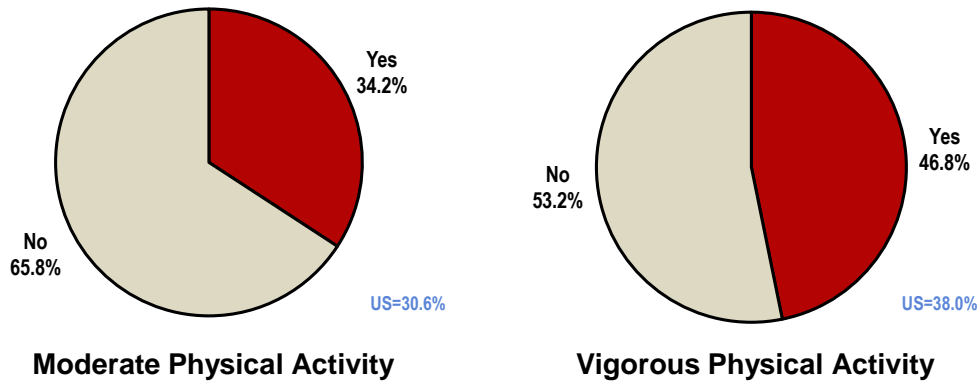
**A total of 34.2% of adults participated in moderate physical activity (5 times a week, 30 minutes at a time).**

- Comparable to the national level.
- TREND: Marks a statistically significant improvement over time (not shown).

**A total of 46.8% participated in vigorous physical activity (3 times a week, 20 minutes at a time).**

- More favorable than the nationwide figure.
- TREND: Statistically similar to 2012 findings (not shown).

### Moderate & Vigorous Physical Activity (EHHS Service Area, 2015)

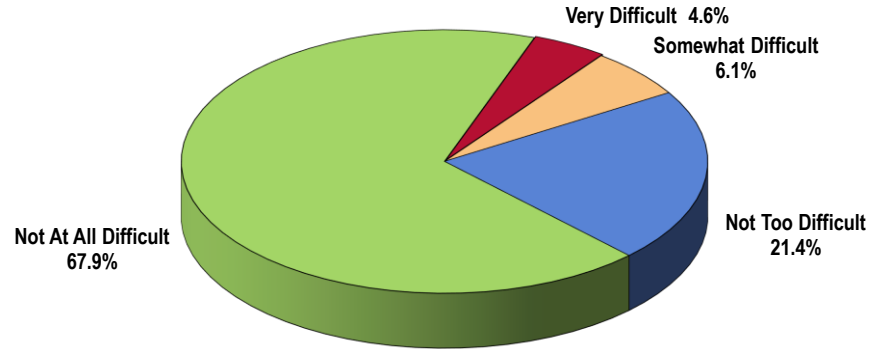


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 148-149]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.  
 • Moderate Physical Activity: Takes part in exercise that produces only light sweating or a slight to moderate increase in breathing or heart rate at least 5 times per week for at least 30 minutes per time.  
 • Vigorous Physical Activity: Takes part in activities that cause heavy sweating or large increases in breathing or heart rate at least 3 times per week for at least 20 minutes per time.

### Access to Safe & Affordable Places for Exercise

**Most Edward Hospital Service Area adults do not find it difficult to access safe and affordable places for exercise, with 67.9% considering it “not at all difficult” and 21.4% reporting that it is “not too difficult.”**

### Level of Difficulty in Accessing Safe and Affordable Places for Exercise (EHHS Service Area, 2015)

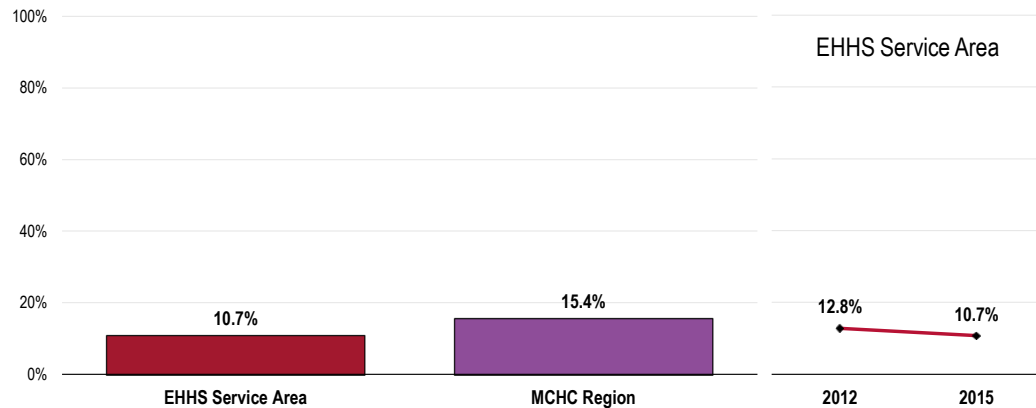


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 308]  
 Notes: • Asked of all respondents.

In contrast, a total of 10.7% of Edward Hospital Service Area adults find it “somewhat” or “very” difficult to access safe and affordable places for exercise.

- Lower than the MCHC Region.
- Statistically unchanged over time.

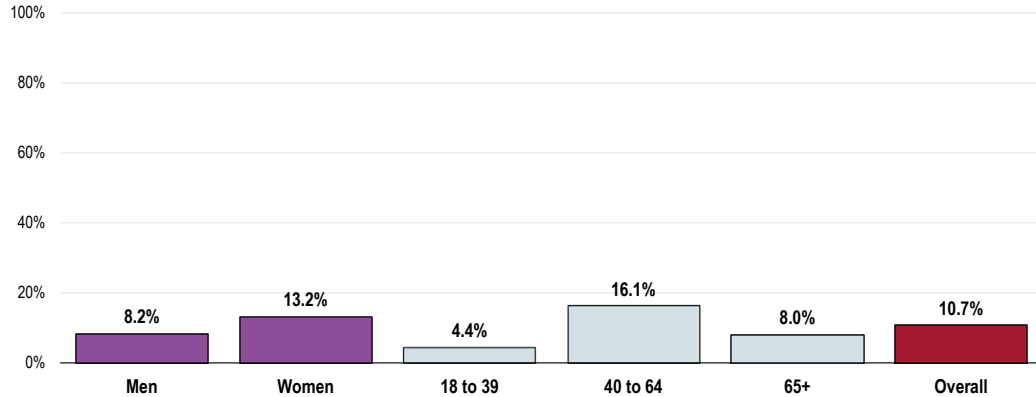
### Find It “Very” or “Somewhat” Difficult to Access Safe and Affordable Places for Exercise



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 308]  
 Notes: • Asked of all respondents.

- Residents between the ages of 40 and 64 are more likely to report that finding safe and affordable places for exercise is difficult.

**Find It “Very” or “Somewhat” Difficult to Access Safe and Affordable Places for Exercise**  
(EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 308]  
Notes: • Asked of all respondents.

**Access to Physical Activity**

**Access to Recreation & Fitness Facilities**

Between 2008 and 2012, there were 11.9 recreation/fitness facilities for every 100,000 population in DuPage and Will counties.

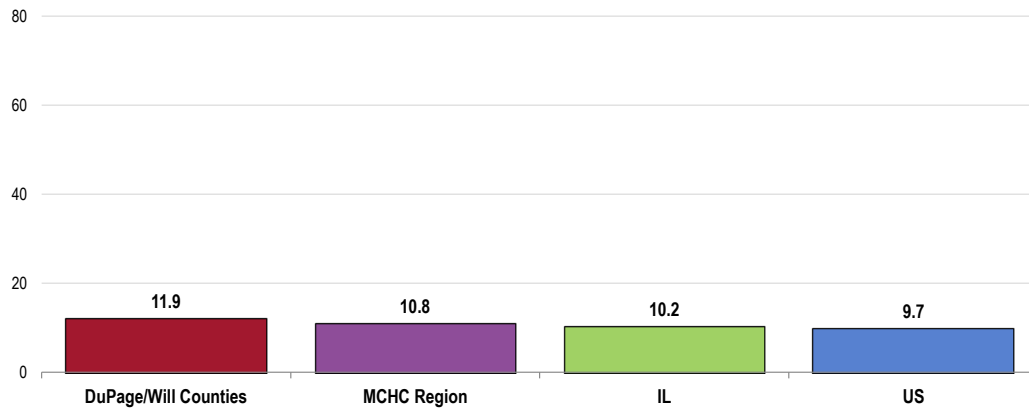
- Above what is found regionally.
- Above what is found statewide.
- Above what is found nationally.

Here, recreation/fitness facilities include establishments engaged in operating facilities which offer “exercise and other active physical fitness conditioning or recreational sports activities.”

Examples include athletic clubs, gymnasiums, dance centers, tennis clubs, and swimming pools.

## Population With Recreation & Fitness Facility Access

(Number of Recreation & Fitness Facilities per 100,000 Population, 2008-2012)



Sources: • US Census Bureau, County Business Patterns: 2011. Additional data analysis by CARES.

• Retrieved August 2015 from Community Commons at <http://www.chna.org>.

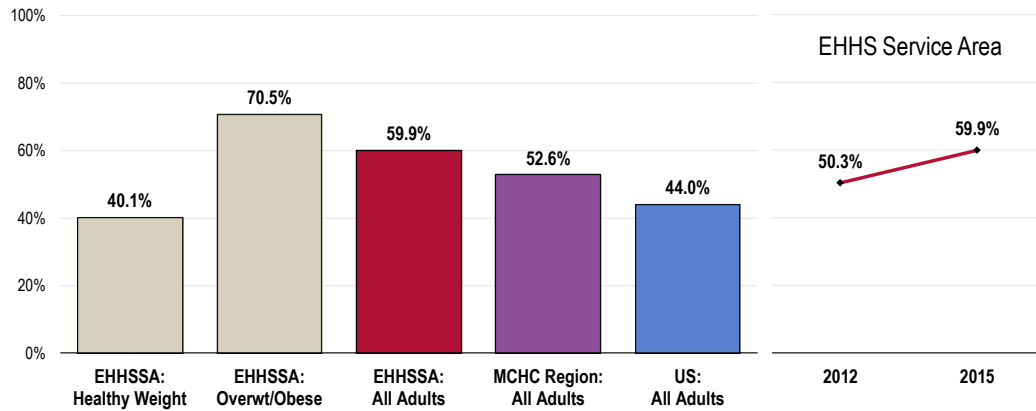
Notes: • Recreation and fitness facilities are defined by North American Industry Classification System (NAICS) Code 713940, which include *Establishments engaged in operating facilities which offer "exercise and other active physical fitness conditioning or recreational sports activities"*. Examples include athletic clubs, gymnasiums, dance centers, tennis clubs, and swimming pools. This indicator is relevant because access to recreation and fitness facilities encourages physical activity and other healthy behaviors.

## Health Advice About Physical Activity & Exercise

**A total of 59.9% of Edward Hospital Service Area adults report that their physician has asked about or given advice to them about physical activity in the past year.**

- More favorable than the regional results.
- More favorable than the national average.
- TREND: Marks a statistically significant increase over time.
- Note: 70.5% of overweight/obese Edward Hospital Service Area respondents say that they have talked with their doctor about physical activity/exercise in the past year.

### Have Received Advice About Exercise in the Past Year From a Physician, Nurse, or Other Health Professional (By Weight Classification)



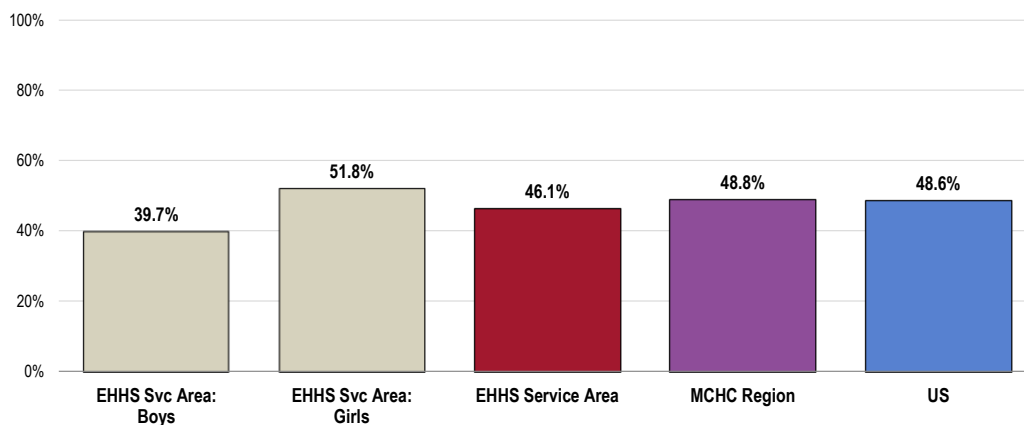
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 19]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

### Children’s Physical Activity

Among service area children age 2 to 17, 46.1% are reported to have had 60 minutes of physical activity on each of the seven days preceding the interview (1+ hours per day).

- Similar to the regional results.
- Similar to the proportion reported nationally.
- The difference by gender is not statistically significant.

### Child Is Physically Active for One or More Hours per Day (Among Children Age 2-17)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 117]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents with children age 2-17 at home.  
 • Includes children reported to have one or more hours of physical activity on each of the seven days preceding the survey.



## Weight Status

### About Overweight & Obesity

Because weight is influenced by energy (calories) consumed and expended, interventions to improve weight can support changes in diet or physical activity. They can help change individuals' knowledge and skills, reduce exposure to foods low in nutritional value and high in calories, or increase opportunities for physical activity. Interventions can help prevent unhealthy weight gain or facilitate weight loss among obese people. They can be delivered in multiple settings, including healthcare settings, worksites, or schools.

The social and physical factors affecting diet and physical activity (see Physical Activity topic area) may also have an impact on weight. Obesity is a problem throughout the population. However, among adults, the prevalence is highest for middle-aged people and for non-Hispanic black and Mexican American women. Among children and adolescents, the prevalence of obesity is highest among older and Mexican American children and non-Hispanic black girls. The association of income with obesity varies by age, gender, and race/ethnicity.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

Body Mass Index (BMI), which describes relative weight for height, is significantly correlated with total body fat content. The BMI should be used to assess overweight and obesity and to monitor changes in body weight. In addition, measurements of body weight alone can be used to determine efficacy of weight loss therapy. BMI is calculated as weight (kg)/height squared ( $m^2$ ). To estimate BMI using pounds and inches, use:  $[\text{weight (pounds)}/\text{height squared (inches}^2)] \times 703$ .

In this report, overweight is defined as a BMI of 25.0 to 29.9  $kg/m^2$  and obesity as a BMI  $\geq 30 kg/m^2$ . The rationale behind these definitions is based on epidemiological data that show increases in mortality with BMIs above 25  $kg/m^2$ . The increase in mortality, however, tends to be modest until a BMI of 30  $kg/m^2$  is reached. For persons with a BMI  $\geq 30 kg/m^2$ , mortality rates from all causes, and especially from cardiovascular disease, are generally increased by 50 to 100 percent above that of persons with BMIs in the range of 20 to 25  $kg/m^2$ .

- Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults: The Evidence Report. National Institutes of Health. National Heart, Lung, and Blood Institute in Cooperation With The National Institute of Diabetes and Digestive and Kidney Diseases. September 1998.

Classification of Overweight and Obesity by BMI	BMI ( $kg/m^2$ )
Underweight	<18.5
Normal	18.5 – 24.9
Overweight	25.0 – 29.9
Obese	$\geq 30.0$

Source: Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults: The Evidence Report. National Institutes of Health. National Heart, Lung, and Blood Institute in Cooperation With The National Institute of Diabetes and Digestive and Kidney Diseases. September 1998.

## Adult Weight Status

### Healthy Weight

Based on self-reported heights and weights, **36.0% of Edward Hospital Service Area adults are at a healthy weight.**

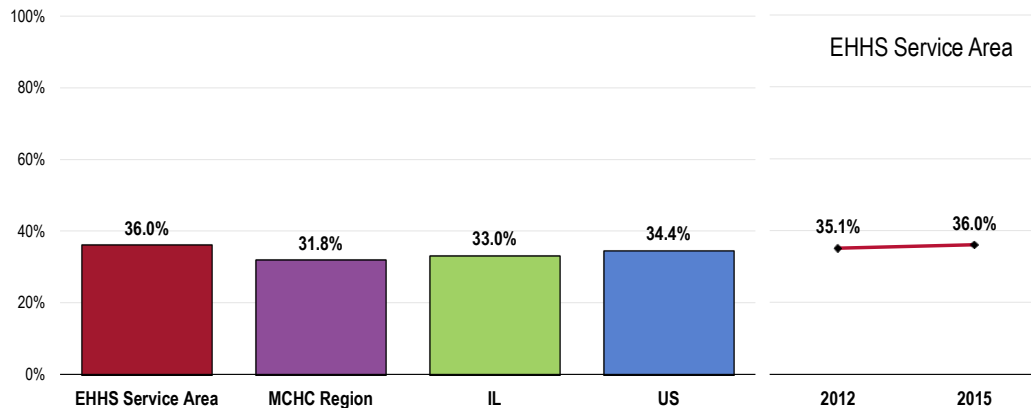
“Healthy weight” means neither underweight, nor overweight (BMI = 18.5-24.9).

- Similar to the regional results.
- Similar to the Illinois proportion.
- Similar to the US proportion.
- Similar to the Healthy People 2020 target (33.9% or higher).
- TREND: Statistically unchanged over time.

### Healthy Weight

(Percent of Adults With a Body Mass Index Between 18.5 and 24.9)

**Healthy People 2020 Target = 33.9% or Higher**



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 151]
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective NWS-8]
- Notes:
- Based on reported heights and weights, asked of all respondents.
  - The definition of healthy weight is having a body mass index (BMI), a ratio of weight to height (kilograms divided by meters squared), between 18.5 and 24.9.

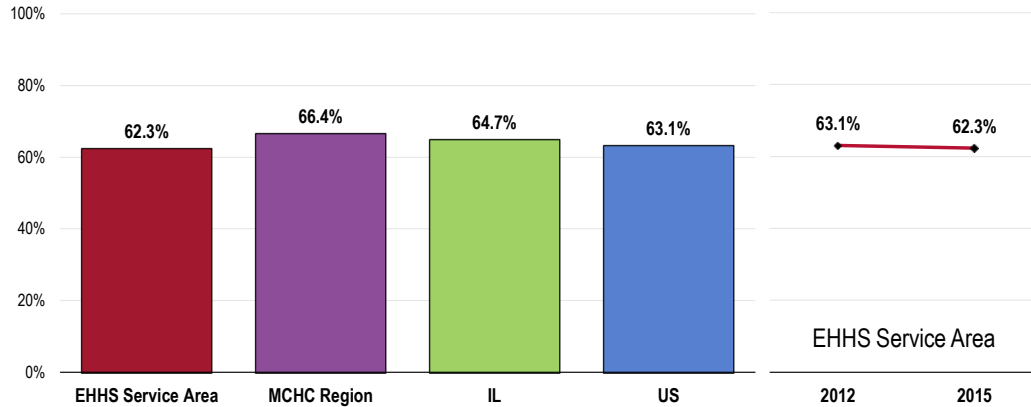
### Overweight Status

**More than 6 in 10 Edward Hospital Service Area adults (62.3%) are overweight.**

Here, “overweight” includes those respondents with a BMI value  $\geq 25$ .

- Similar to the regional results.
- Similar to the Illinois prevalence.
- Similar to the US overweight prevalence.
- TREND: Statistically unchanged since 2012.

### Prevalence of Total Overweight (Percent of Adults With a Body Mass Index of 25.0 or Higher)



Sources: ● PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 151]  
 ● 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 ● Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.

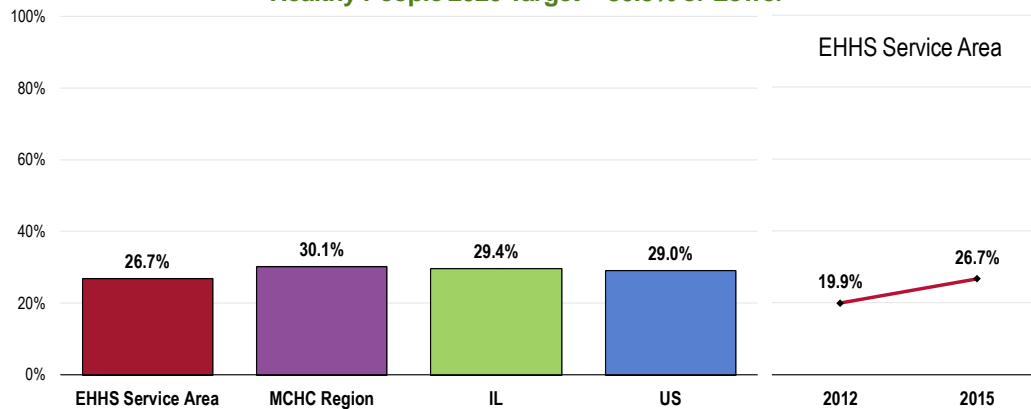
Notes: ● Based on reported heights and weights, asked of all respondents.  
 ● The definition of overweight is having a body mass index (BMI), a ratio of weight to height (kilograms divided by meters squared), greater than or equal to 25.0, regardless of gender. The definition for obesity is a BMI greater than or equal to 30.0.

#### Further, 26.7% of Edward Hospital Service Area adults are obese.

“Obese” (also included in overweight prevalence discussed previously) includes respondents with a BMI value ≥30.

- Close to the regional results.
- Close to Illinois findings.
- Close to US findings.
- Close to the Healthy People 2020 target (30.5% or lower).
- TREND: Denotes a statistically significant increase in obesity since 2012.

### Prevalence of Obesity (Percent of Adults With a Body Mass Index of 30.0 or Higher) Healthy People 2020 Target = 30.5% or Lower



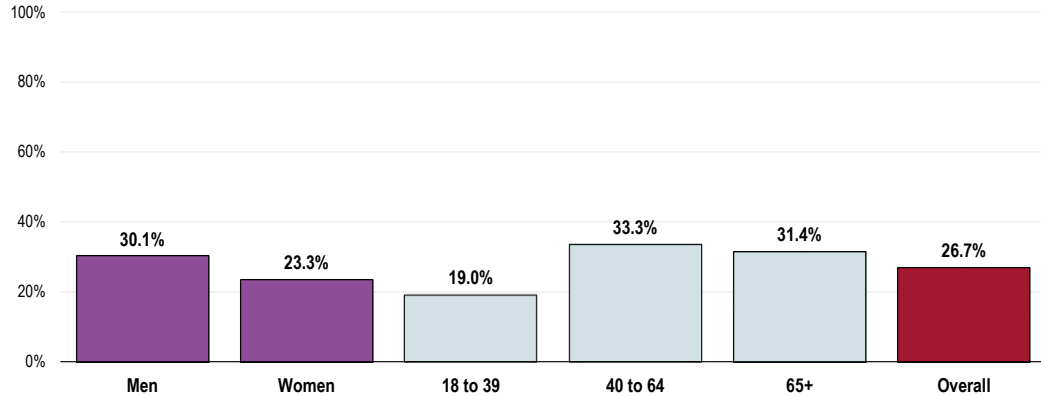
Sources: ● PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 151]  
 ● 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 ● US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective NWS-9]  
 ● Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.

Notes: ● Based on reported heights and weights, asked of all respondents.  
 ● The definition of obesity is having a body mass index (BMI), a ratio of weight to height (kilograms divided by meters squared), greater than or equal to 30.0, regardless of gender.

- Obesity is notably more prevalent among adults between the ages of 40 and 64.

### Prevalence of Obesity

(Percent of Adults With a BMI of 30.0 or Higher; EHHS Service Area, 2015)  
**Healthy People 2020 Target = 30.5% or Lower**



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 151]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective NWS-9]  
 Notes: • Based on reported heights and weights, asked of all respondents.  
 • The definition of obesity is having a body mass index (BMI), a ratio of weight to height (kilograms divided by meters squared), greater than or equal to 30.0, regardless of gender.

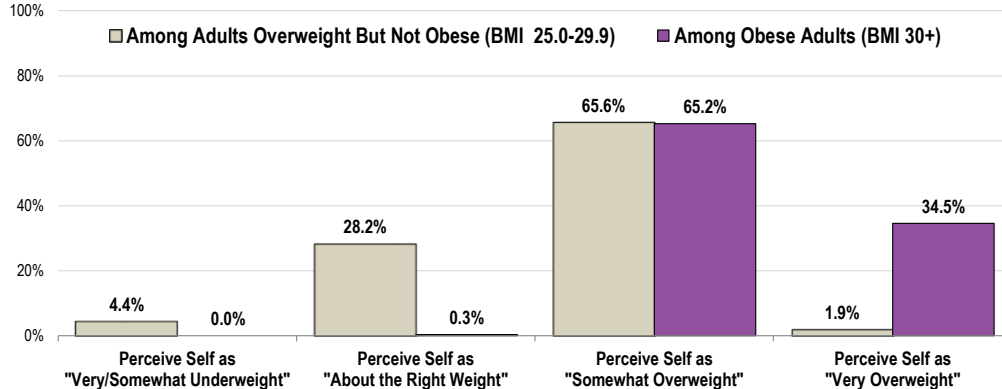
### Actual vs. Perceived Body Weight

**A total of 0.3% of obese adults and 28.2% of overweight (but not obese) adults feel that their current weight is “about right.”**

- 65.6% of overweight (but not obese) adults see themselves as “somewhat overweight.”
- 34.5% of obese adults see themselves as “very overweight.”

### Actual vs. Perceived Weight Status

(Among Overweight/Obese Adults Based on BMI; EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 99]  
 Notes: • BMI is based on reported heights and weights, asked of all respondents.  
 • The definition of overweight is having a body mass index (BMI), a ratio of weight to height (kilograms divided by meters squared), greater than or equal to 25.0, regardless of gender. The definition for obesity is a BMI greater than or equal to 30.0.

## Relationship of Overweight With Other Health Issues

Overweight and obese adults are more likely to report a number of adverse health conditions.

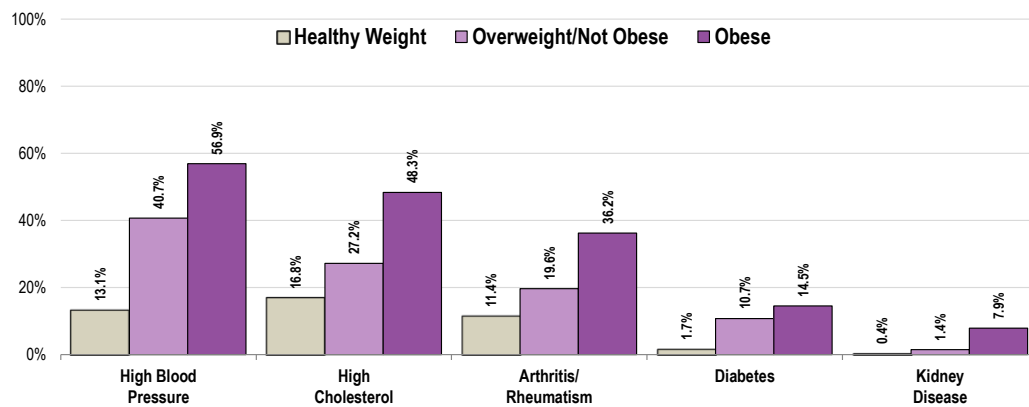
Among these are:

- Hypertension (high blood pressure).
- High cholesterol.
- Arthritis/rheumatism.
- Diabetes.
- Kidney disease.

The correlation between overweight and various health issues cannot be disputed.

## Relationship of Overweight With Other Health Issues

(By Weight Classification; EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Items 28, 33, 125, 126, 136]  
 Notes: • Based on reported heights and weights, asked of all respondents.

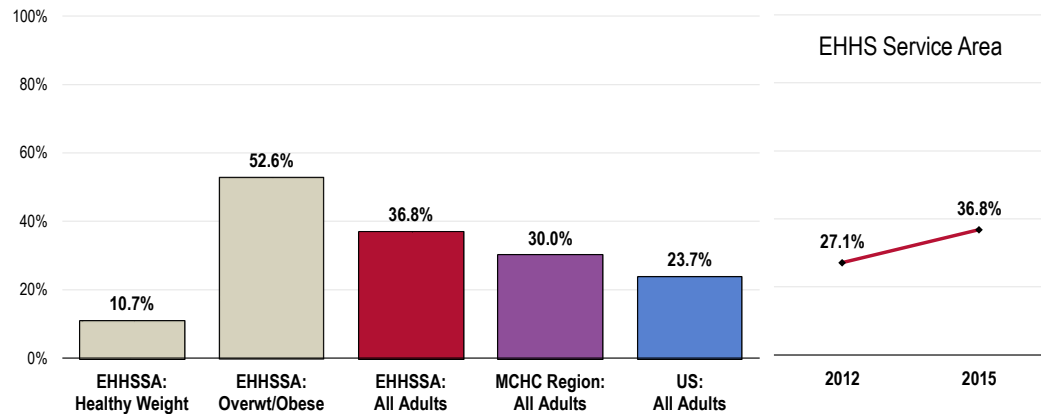
## Weight Management

### Health Advice

A total of 36.8% of adults have been given advice about their weight by a doctor, nurse or other health professional in the past year.

- Higher than the regional results.
- Higher than the national findings.
- TREND: Denotes a statistically significant increase from that reported in 2012.
- Note that 52.6% of overweight/obese adults have been given advice about their weight by a health professional in the past year (*while nearly one-half has not*).

## Have Received Advice About Weight in the Past Year From a Physician, Nurse, or Other Health Professional (By Weight Classification)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 98, 153]  
• 2013 PRC National Health Survey, Professional Research Consultants, Inc.

Notes: • Asked of all respondents.

## Weight Control

### About Maintaining a Healthy Weight

Individuals who are at a healthy weight are less likely to:

- Develop chronic disease risk factors, such as high blood pressure and dyslipidemia.
- Develop chronic diseases, such as type 2 diabetes, heart disease, osteoarthritis, and some cancers.
- Experience complications during pregnancy.
- Die at an earlier age.

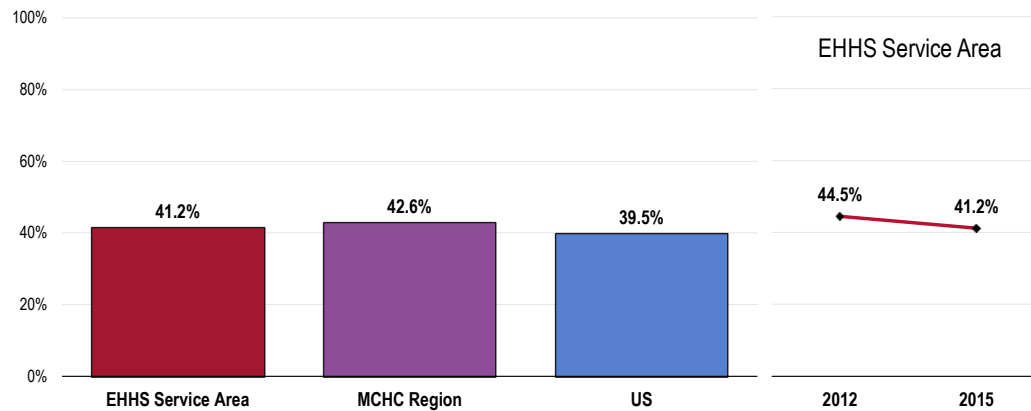
All Americans should avoid unhealthy weight gain, and those whose weight is too high may also need to lose weight.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

**A total of 41.2% of Edward Hospital Service Area adults who are overweight say that they are both modifying their diet and increasing their physical activity to try to lose weight.**

- Similar to the regional results.
- Similar to national findings.
- TREND: The decrease since 2012 is not statistically significant.

## Trying to Lose Weight by Both Modifying Diet and Increasing Physical Activity (Among Overweight or Obese Respondents)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 152]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Reflects respondents who are overweight or obese based on reported heights and weights.

## Childhood Overweight & Obesity

### About Weight Status in Children & Teens

In children and teens, body mass index (BMI) is used to assess weight status – underweight, healthy weight, overweight, or obese. After BMI is calculated for children and teens, the BMI number is plotted on the CDC BMI-for-age growth charts (for either girls or boys) to obtain a percentile ranking. Percentiles are the most commonly used indicator to assess the size and growth patterns of individual children in the United States. The percentile indicates the relative position of the child's BMI number among children of the same sex and age.

BMI-for-age weight status categories and the corresponding percentiles are shown below:

- Underweight <5<sup>th</sup> percentile
- Healthy Weight ≥5<sup>th</sup> and <85<sup>th</sup> percentile
- Overweight ≥85<sup>th</sup> and <95<sup>th</sup> percentile
- Obese ≥95<sup>th</sup> percentile

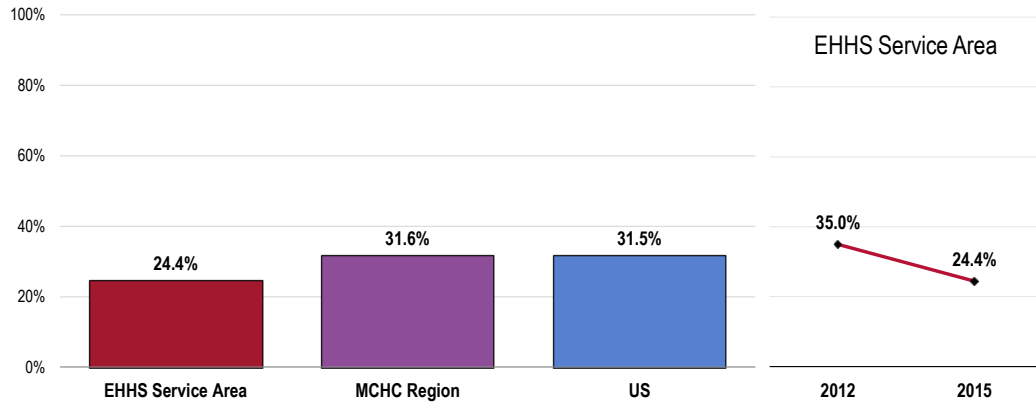
• Centers for Disease Control and Prevention

**Based on the heights/weights reported by surveyed parents, 24.4% of Edward Hospital Service Area children age 5 to 17 are overweight or obese (≥85th percentile).**

- Similar to the regional results.
- Similar to the US percentage.
- TREND: The decrease since 2012 is not statistically significant.

### Child Total Overweight Prevalence

(Children Age 5-17 Who Are Overweight/Obese; BMI in the 85th Percentile or Higher)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 155]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents with children age 5-17 at home.  
 • Overweight among children is determined by children’s Body Mass Index status at or above the 85<sup>th</sup> percentile of US growth charts by gender and age.

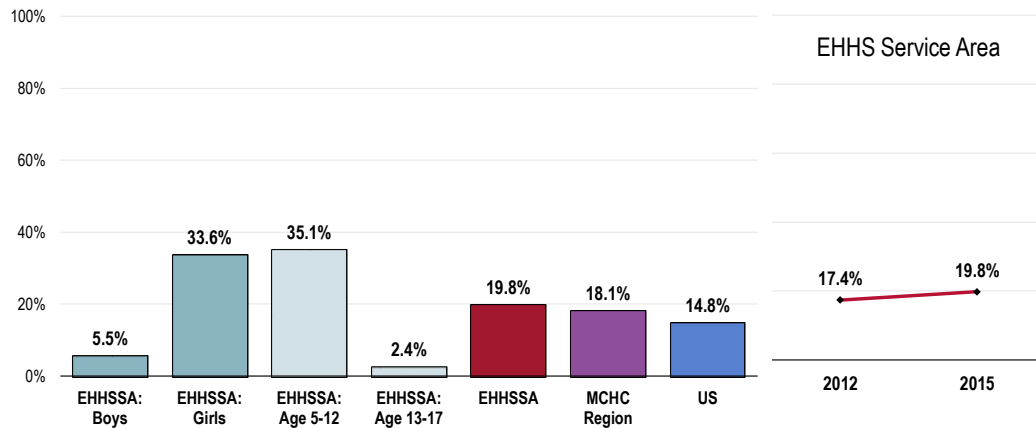
**Further, 19.8% of service area children age 5 to 17 are obese (≥95th percentile).**

- Similar to the regional results.
- Similar to the national percentage.
- Similar to the Healthy People 2020 target (14.5% or lower for children age 2-19).
- TREND: Statistically unchanged over time.
- Highest among area girls (age 5-17) and children age 5-12.

### Child Obesity Prevalence

(Children Age 5-17 Who Are Obese; BMI in the 95<sup>th</sup> Percentile or Higher)

**Healthy People 2020 Target = 14.5% or Lower**



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 155]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective NWS-10.4]  
 Notes: • Asked of all respondents with children age 5-17 at home.  
 • Obesity among children is determined by children’s Body Mass Index status equal to or above the 95<sup>th</sup> percentile of US growth charts by gender and age.



## Key Informant Input: Nutrition, Physical Activity & Weight

A majority of key informants taking part in an online survey characterized *Nutrition, Physical Activity & Weight* as a “major problem” in the community.

### Perceptions of Nutrition, Physical Activity, and Weight as a Problem in the Community

(Key Informants, 2015)

■ Major Problem    ■ Moderate Problem    ■ Minor Problem    ■ No Problem At All



Sources: • 2015 PRC Online Key Informant Survey.

### Top Concerns

Among those rating this issue as a “major problem,” reasons frequently related to the following:

#### Lack of Education

*Lack of knowledge of what is healthy, nutritional food and allowing children to play indoors way too much and not encouraging them to play outdoors. With working parents, meals are what is quick and easy and carryout rather than quick, easy and healthy. – Community/Business Leader*

*Need for nutritionally dense, active lifestyles in order to promote healthy weight for all residents. In addition, there is significant disparity within the county borders related to socioeconomic status. – Public Health Expert*

#### Infrastructure

*Our nation is headed in the wrong direction with regards to fitness, activity and nutrition. Look at any local parade, the kids are heavier than 15 years ago. Look at any local epidemiological measure, kids and adults are heavier. We live in an area that was built on a suburban model that discourages walking. Nutritional choices are weighted against people in general, more so for those with low income as fresh and healthy foods are more expensive than processed. – Social Service Representative*

#### Contributing Factors

*Our eating habits continue to drive this issue. The quality of our food is also an issue, although more and more people and companies are climbing on the organic and non-GMO band wagon. Digital addictions plague our youth, who would rather play video games than play outside. Accessibility to indoor space where seniors can walk in safety for free is another important component. – Community/Business Leader*

#### Obesity

*Obesity is an epidemic in the US. – Social Service Representative*

## Substance Abuse

### About Substance Abuse

Substance abuse has a major impact on individuals, families, and communities. The effects of substance abuse are cumulative, significantly contributing to costly social, physical, mental, and public health problems. These problems include:

- Teenage pregnancy
- Human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS)
- Other sexually transmitted diseases (STDs)
- Domestic violence
- Child abuse
- Motor vehicle crashes
- Physical fights
- Crime
- Homicide
- Suicide

Substance abuse refers to a set of related conditions associated with the consumption of mind- and behavior-altering substances that have negative behavioral and health outcomes. Social attitudes and political and legal responses to the consumption of alcohol and illicit drugs make substance abuse one of the most complex public health issues. In addition to the considerable health implications, substance abuse has been a flash-point in the criminal justice system and a major focal point in discussions about social values: people argue over whether substance abuse is a disease with genetic and biological foundations or a matter of personal choice.

Advances in research have led to the development of evidence-based strategies to effectively address substance abuse. Improvements in brain-imaging technologies and the development of medications that assist in treatment have gradually shifted the research community's perspective on substance abuse. There is now a deeper understanding of substance abuse as a disorder that develops in adolescence and, for some individuals, will develop into a chronic illness that will require lifelong monitoring and care.

Improved evaluation of community-level prevention has enhanced researchers' understanding of environmental and social factors that contribute to the initiation and abuse of alcohol and illicit drugs, leading to a more sophisticated understanding of how to implement evidence-based strategies in specific social and cultural settings.

A stronger emphasis on evaluation has expanded evidence-based practices for drug and alcohol treatment. Improvements have focused on the development of better clinical interventions through research and increasing the skills and qualifications of treatment providers.

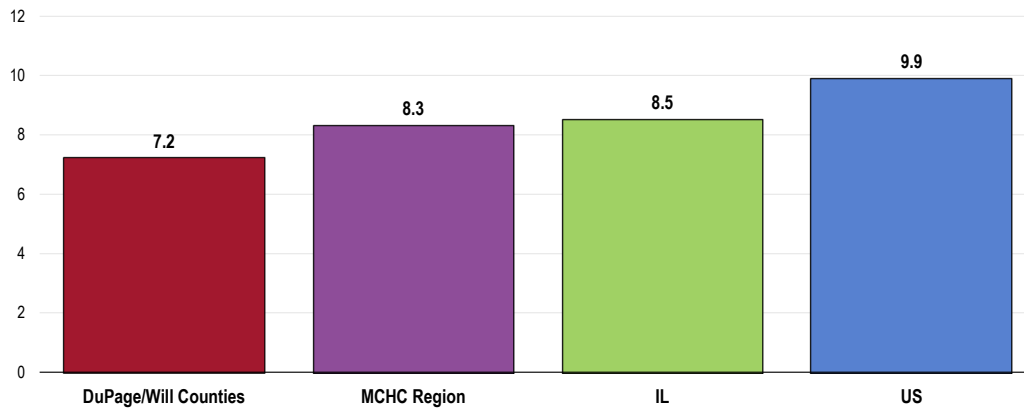
- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Age-Adjusted Cirrhosis/Liver Disease Deaths

**Between 2011 and 2013, there was an annual average age-adjusted cirrhosis/liver disease mortality rate of 7.2 deaths per 100,000 population in DuPage and Will counties.**

- Lower than the regional rate.
- Lower than the statewide rate.
- Lower than the national rate.
- Satisfies the Healthy People 2020 target (8.2 or lower).

### Cirrhosis/Liver Disease: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 8.2 or Lower



Sources: 

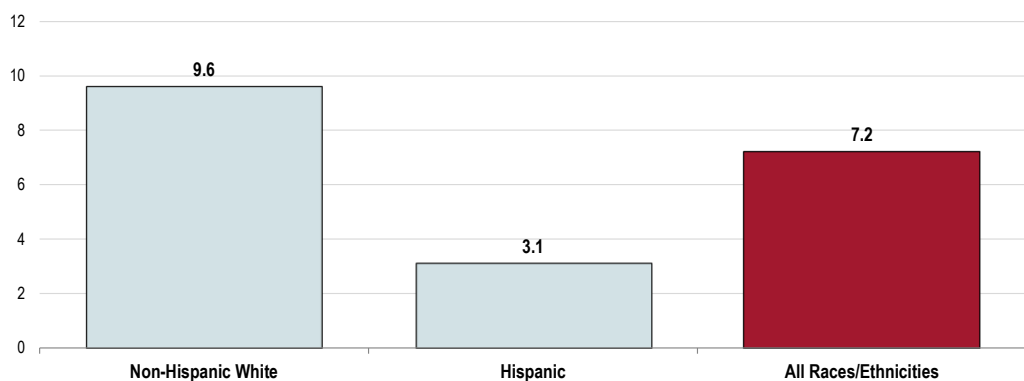
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective SA-11]

Notes: 

- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
- Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- The area's cirrhosis mortality rate is 3 times as high among Non-Hispanic Whites as it is among Hispanics.

### Cirrhosis/Liver Disease: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 8.2 or Lower



Sources: 

- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
- US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective SA-11]

Notes: 

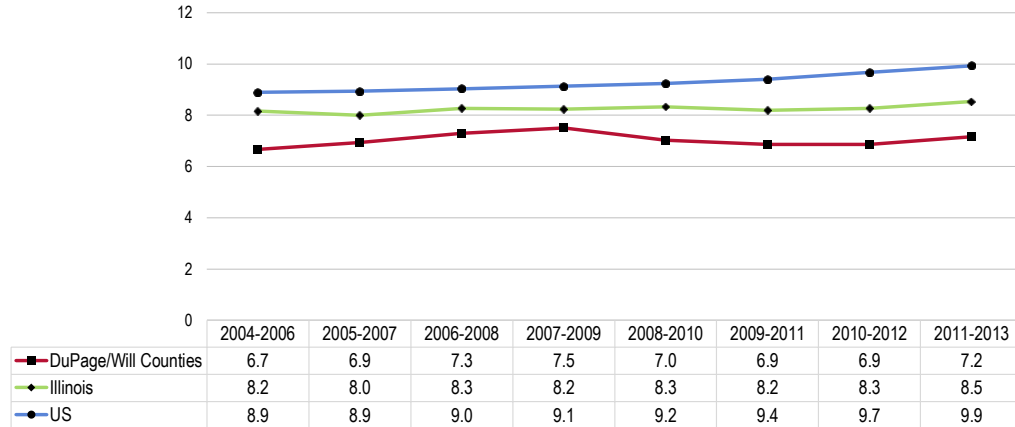
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
- Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- **TREND:** Despite fluctuations, the area mortality rate has increased over the past decade; statewide and nationally, rates increased during this time.

### Cirrhosis/Liver Disease: Age-Adjusted Mortality Trends

(Annual Average Deaths per 100,000 Population)

Healthy People 2020 Target = 8.2 or Lower



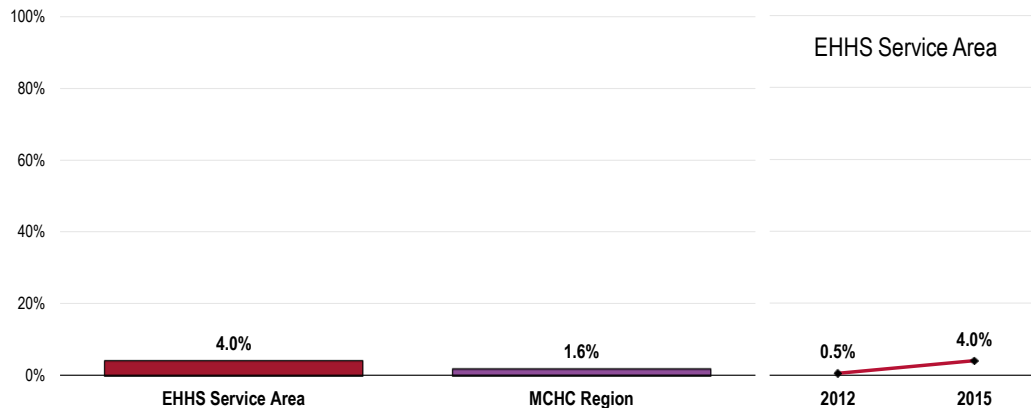
Sources: ● CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.  
 ● US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective SA-11]  
 Notes: ● Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).  
 ● Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

### Liver Disease

A total of 4.0% of area adults report having been diagnosed with liver disease.

- Higher than the regional results.
- **TREND:** The prevalence of liver disease has significantly increased over time.

### Prevalence of Liver Disease



Sources: ● PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 301]  
 Notes: ● Asked of all respondents.

## High-Risk Alcohol Use

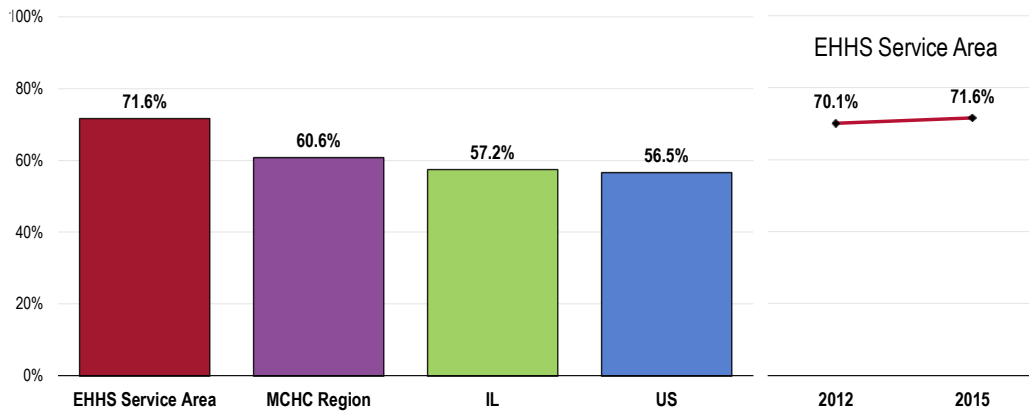
### Current Drinking

**A total of 71.6% of area adults had at least one drink of alcohol in the past month (current drinkers).**

“Current drinkers” include survey respondents who had at least one drink of alcohol in the month preceding the interview. For the purposes of this study, a “drink” is considered one can or bottle of beer, one glass of wine or bottle of wine cooler, one cocktail, or one shot of liquor.

- Higher than the regional results.
- Higher than the statewide proportion.
- Higher than the national proportion.
- TREND: Statistically unchanged since 2012.

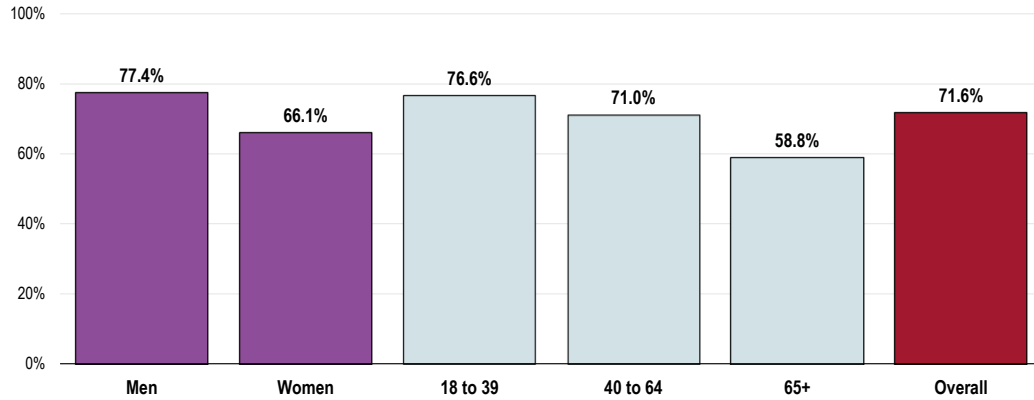
### Current Drinkers



- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 160]
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
- Notes:
- Asked of all respondents.
  - Current drinkers had at least one alcoholic drink in the past month.

- Current drinking is more prevalent among men and adults under 65 (negative correlation with age).

### Current Drinkers (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 160]  
 Notes: • Asked of all respondents.  
 • Current drinkers had at least one alcoholic drink in the past month.

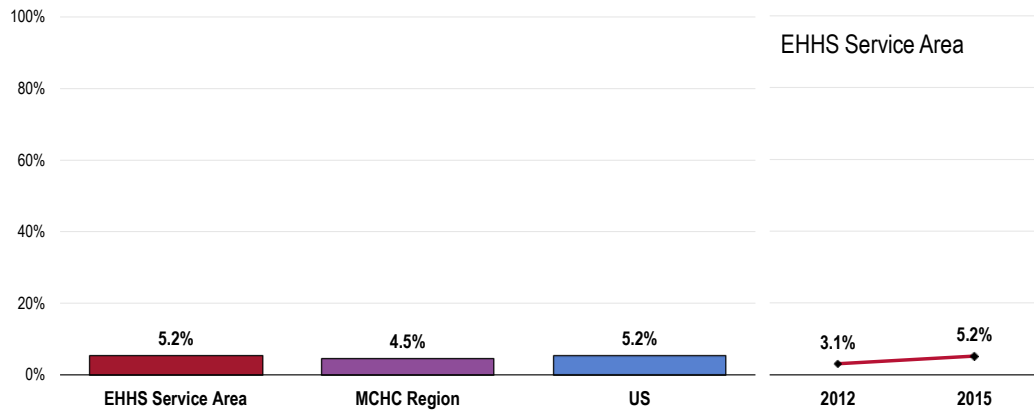
### Chronic Drinking

A total of 5.2% of area adults averaged two or more drinks of alcohol per day in the past month (chronic drinkers).

“Chronic drinkers” include survey respondents reporting 60 or more drinks of alcohol in the month preceding the interview.

- Similar to the regional results.
- Similar to the US proportion.
- TREND: Statistically unchanged over time.

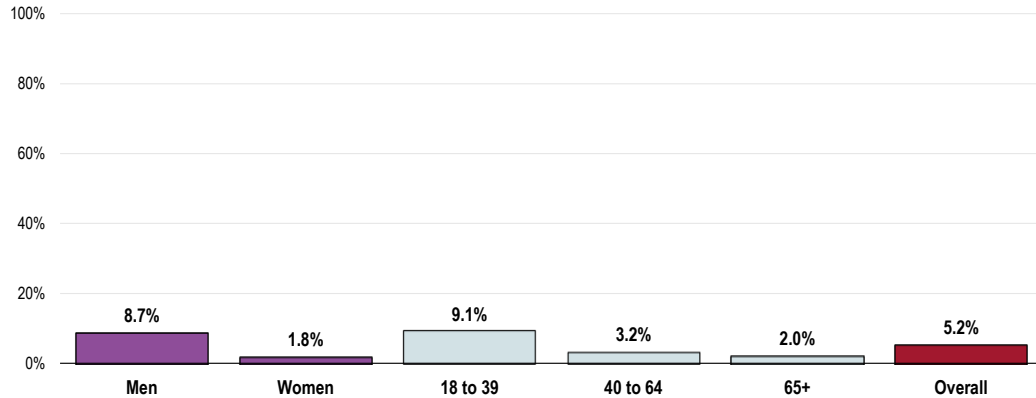
### Chronic Drinkers



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 180]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.  
 • Chronic drinkers are defined as having 60+ alcoholic drinks in the past month.

- Chronic drinking is more prevalent among men and young adults.

### Chronic Drinkers (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 180]  
 Notes: • Asked of all respondents.  
 • Chronic drinkers are defined as those having 60+ alcoholic drinks in the past month.

### Binge Drinking

**A total of 19.0% of Edward Hospital Service Area adults are binge drinkers.**

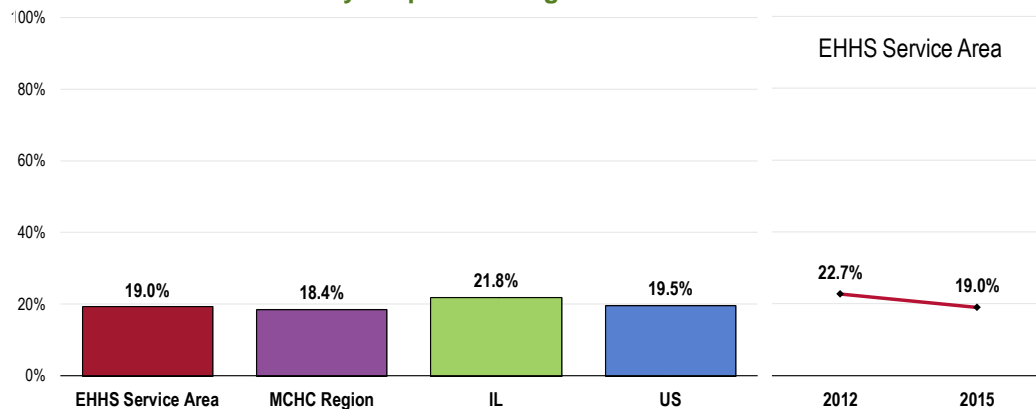
Binge drinkers\* include:

- 1) MEN who report drinking 5 or more alcoholic drinks on any single occasion during the past month; and
- 2) WOMEN who report drinking 4 or more alcoholic drinks on any single occasion during the past month.

RELATED ISSUE:  
 See also Stress in the Mental Health & Mental Disorders section of this report.

- Similar to the regional results.
- Similar to the Illinois findings.
- Similar to national findings.
- Satisfies the Healthy People 2020 target (24.4% or lower).
- TREND: Statistically unchanged since 2012 (note, however, that the previous definition for binge drinking was five or more drinks, regardless of gender).

### Binge Drinkers Healthy People 2020 Target = 24.4% or Lower



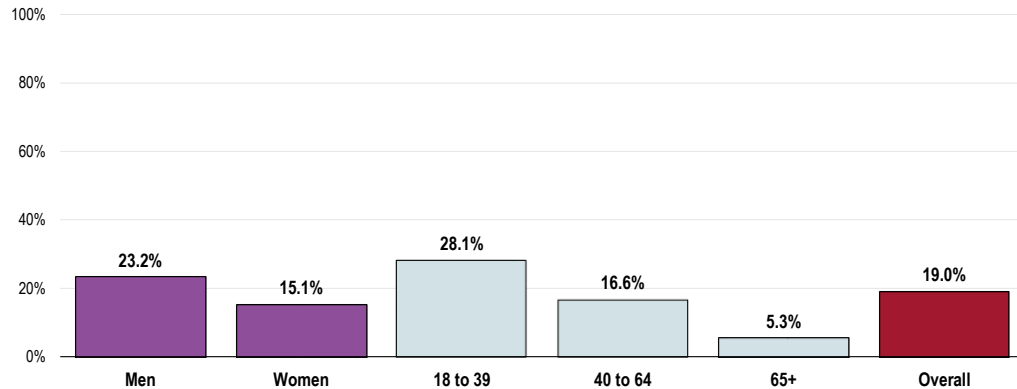
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 162]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Georgia. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective SA-14.3]  
 Notes: • Asked of all respondents.  
 • Binge drinkers are defined as men having 5+ alcoholic drinks on any one occasion or women consuming 4+ drinks on any one occasion.

- Binge drinking is more prevalent among men and younger adults (negative correlation with age).

### Binge Drinkers

(EHHS Service Area, 2015)

Healthy People 2020 Target = 24.4% or Lower



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 162]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective SA-14.3]  
 Notes: • Asked of all respondents.  
 • Binge drinkers are defined as men having 5+ alcoholic drinks on any one occasion or women consuming 4+ drinks on any one occasion

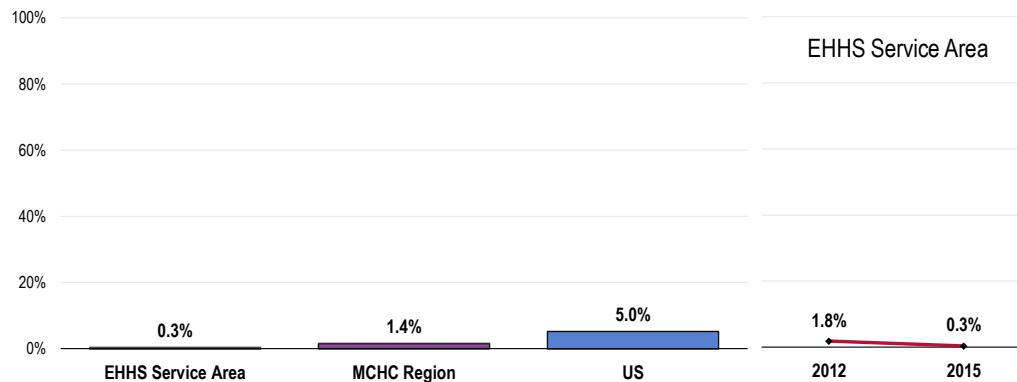
### Drinking & Driving

A total of 0.3% of Edward Hospital Service Area adults acknowledge having driven a vehicle in the past month after they had perhaps too much to drink.

- Better than the regional results.
- Better than the national findings.
- TREND: Statistically unchanged over time.

Note: As a self-reported measure – and because this indicator reflects potentially illegal behavior – it is reasonable to expect that it might be underreported, and that the actual incidence of drinking and driving in the community is likely higher.

### Have Driven in the Past Month After Perhaps Having Too Much to Drink



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 65]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

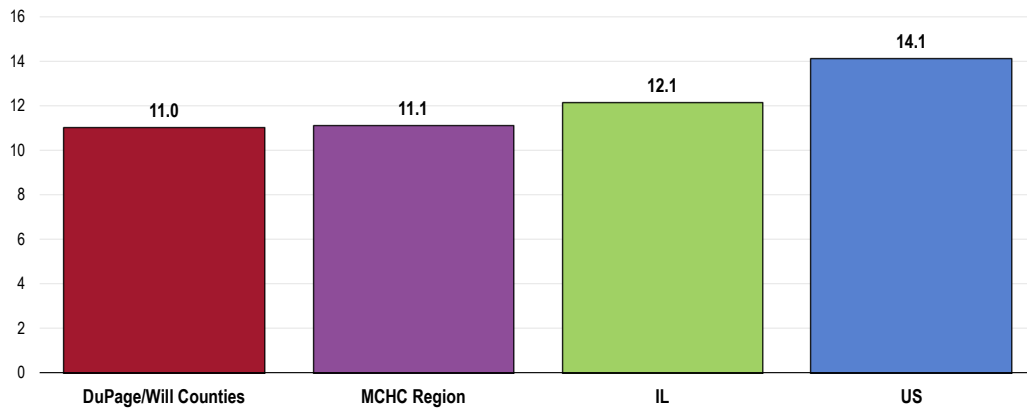


## Age-Adjusted Drug-Induced Deaths

Between 2011 and 2013, there was an annual average age-adjusted drug-induced mortality rate of 11.0 deaths per 100,000 population in DuPage and Will counties.

- Similar to the regional rate.
- More favorable than the statewide rate.
- More favorable than the national rate.
- Similar to the Healthy People 2020 target (11.3 or lower).

### Drug-Induced Deaths: Age-Adjusted Mortality (2011-2013 Annual Average Deaths per 100,000 Population) Healthy People 2020 Target = 11.3 or Lower

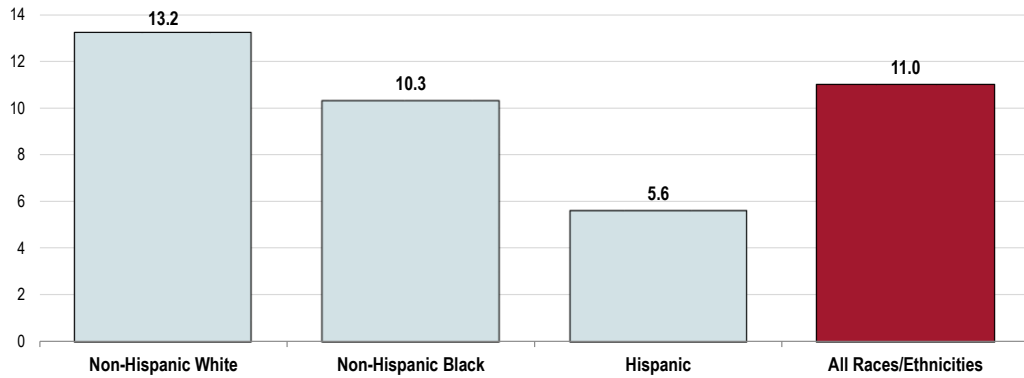


- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective SA-12]
- Notes:
- Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).
  - Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- The drug-induced mortality rate is much higher among Whites and Blacks in the service area when compared with Hispanics.

### Drug-Induced Deaths: Age-Adjusted Mortality by Race (DuPage/Will Counties; 2011-2013 Annual Average Deaths per 100,000 Population)

Healthy People 2020 Target = 11.3 or Lower



Sources: ● CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.

● US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective SA-12]

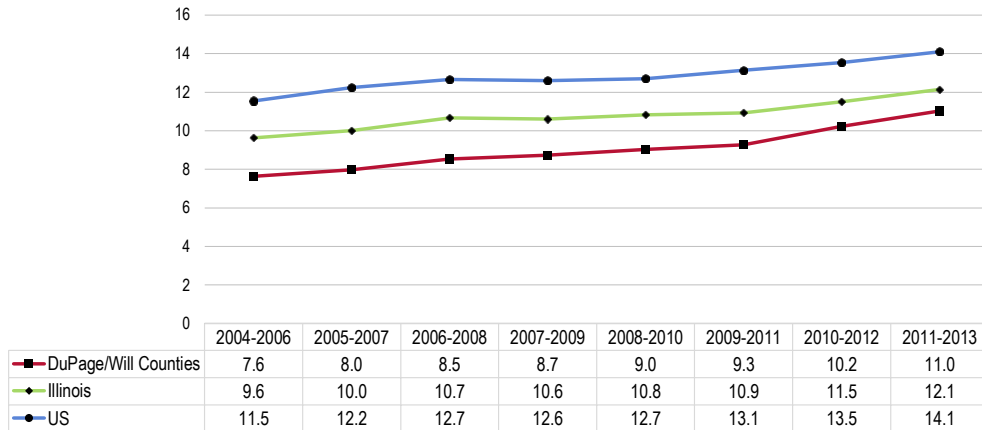
Notes: ● Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).

● Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

- **TREND:** The recent mortality rate increased over the past decade, echoing statewide and nationwide rates.

### Drug-Induced Deaths: Age-Adjusted Mortality Trends (Annual Average Deaths per 100,000 Population)

Healthy People 2020 Target = 11.3 or Lower



Sources: ● CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted August 2015.

● US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective SA-12]

Notes: ● Deaths are coded using the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10).

● Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population.

## Illicit Drug Use

**A total of 10.6% of Edward Hospital Service Area adults acknowledge using an illicit drug in the past month.**

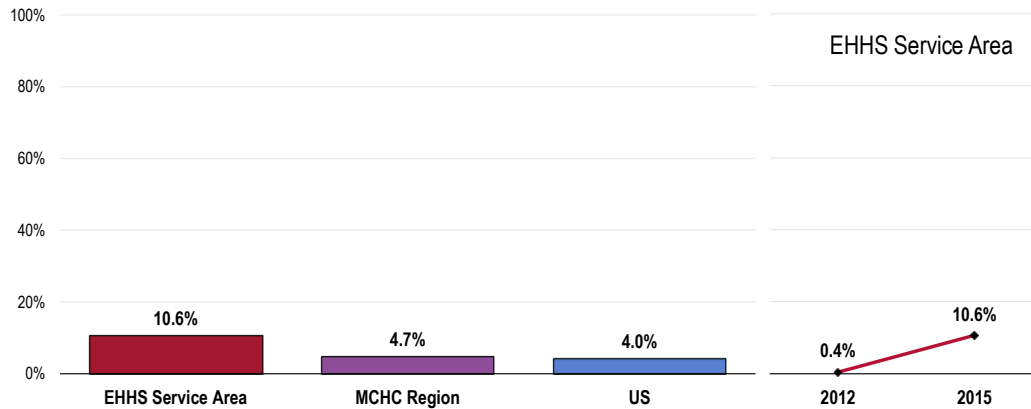
For the purposes of this survey, “illicit drug use” includes use of illegal substances or of prescription drugs taken without a physician’s order.

Note: As a self-reported measure – and because this indicator reflects potentially illegal behavior – it is reasonable to expect that it might be underreported, and that actual illicit drug use in the community is likely higher.

- Worse than the regional results.
- Worse than the proportion found nationally.
- Fails to satisfy the Healthy People 2020 target of 7.1% or lower.
- TREND: Marks a statistically significant increase over time.

### Illicit Drug Use in the Past Month

Healthy People 2020 Target = 7.1% or Lower



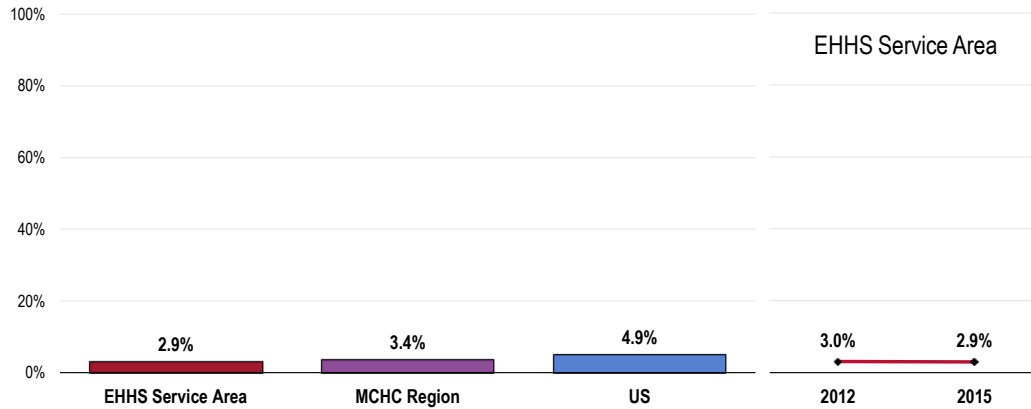
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 66]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective SA-13.3]  
 Notes: • Asked of all respondents.

## Alcohol & Drug Treatment

**A total of 2.9% of service area adults report that they have sought professional help for an alcohol or drug problem at some point in their lives.**

- Similar to the regional results.
- Below the national results.
- TREND: Statistically unchanged over time.

### Have Ever Sought Professional Help for an Alcohol/Drug-Related Problem

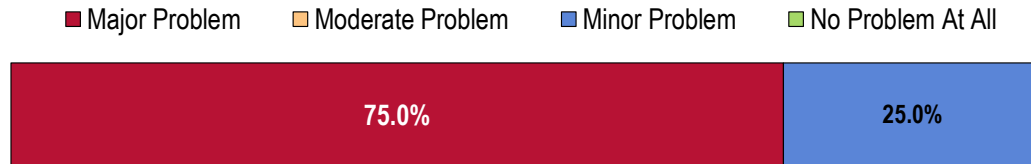


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 67]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

### Key Informant Input: Substance Abuse

The greatest share of key informants taking part in an online survey characterized *Substance Abuse* as a “major problem” in the community.

### Perceptions of Substance Abuse as a Problem in the Community (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

### Barriers to Treatment

Among those rating this issue as a “major problem,” the greatest barriers to accessing substance abuse treatment are viewed as:

#### Addiction/Denial

*The barriers are self-imposed, they are there and available but family denial is the barrier. Family members need to pay close attention to one another and if a problem seems to develop address it. – Community/Business Leader*

*Shame, the cost (lack of insurance) and the strength of the addiction itself. – Community/ Business Leader*

*The greatest barriers that prevent people from accessing needed substance abuse treatment start with realizing that they are abusing alcohol and drugs. Many use socially and others self-medicate to mask stress/anxiety. It is difficult to admit a problem and even more difficult to ask for help. – Community/Business Leader*

**Lack of Funding for Treatment**

*Lack of funding for treatment in spite of health insurance status, but particularly for Medicaid/uninsured individuals. – Public Health Expert*

**Access to Care**

*Access to care, the nature of the disorder, denial. – Social Service Representative*

**Most Problematic Substances**

**Key informants (who rated this as a “major problem”) most often identified alcohol, heroin/other opioids, and marijuana as the most problematic substances abused in the community.**

	Most Problematic	Second-Most Problematic	Third-Most Problematic	Total Mentions
Alcohol	80.0%	0.0%	0.0%	4
Heroin or Other Opioids	20.0%	20.0%	40.0%	4
Marijuana	0.0%	40.0%	20.0%	3
Prescription Medications	0.0%	20.0%	0.0%	1
Over-the-Counter Medications	0.0%	20.0%	0.0%	1
Methamphetamines or Other Amphetamines	0.0%	0.0%	20.0%	1
Steroids	0.0%	0.0%	20.0%	1

## Tobacco Use

### About Tobacco Use

Tobacco use is the single most preventable cause of death and disease in the United States. Scientific knowledge about the health effects of tobacco use has increased greatly since the first Surgeon General's report on tobacco was released in 1964.

Tobacco use causes:

- Cancer
- Heart disease
- Lung diseases (including emphysema, bronchitis, and chronic airway obstruction)
- Premature birth, low birth weight, stillbirth, and infant death

There is no risk-free level of exposure to secondhand smoke. Secondhand smoke causes heart disease and lung cancer in adults and a number of health problems in infants and children, including: severe asthma attacks; respiratory infections; ear infections; and sudden infant death syndrome (SIDS).

Smokeless tobacco causes a number of serious oral health problems, including cancer of the mouth and gums, periodontitis, and tooth loss. Cigar use causes cancer of the larynx, mouth, esophagus, and lung.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

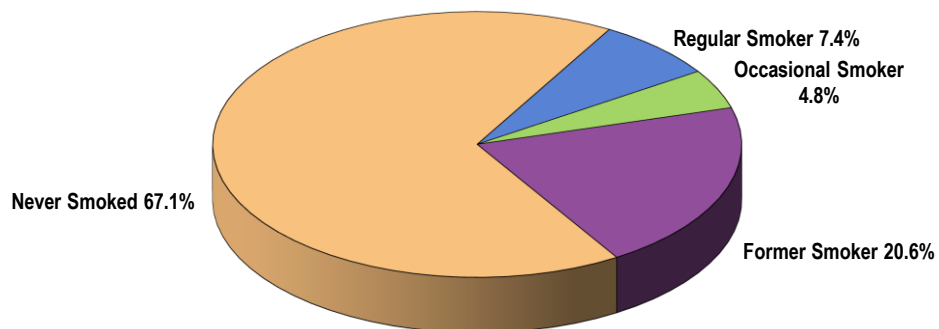
## Cigarette Smoking

### Cigarette Smoking Prevalence

A total of 12.2% of Edward Hospital Service Area adults currently smoke cigarettes, either regularly (7.4% every day) or occasionally (4.8% on some days).

### Cigarette Smoking Prevalence

(EHHS Service Area, 2015)

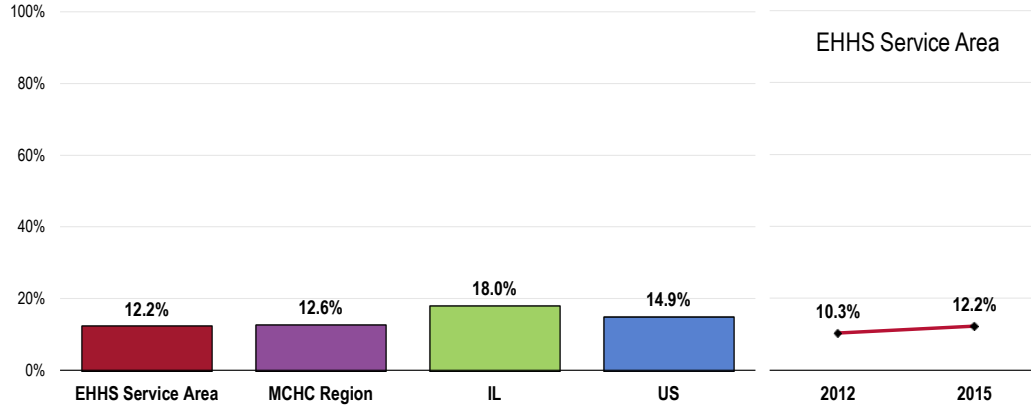


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 156]  
Notes: • Asked of all respondents.

- Similar to the regional results.
- More favorable than statewide findings.
- Similar to national findings.
- Similar to the Healthy People 2020 target (12% or lower).
- TREND: Statistically unchanged over time.

### Current Smokers

Healthy People 2020 Target = 12.0% or Lower



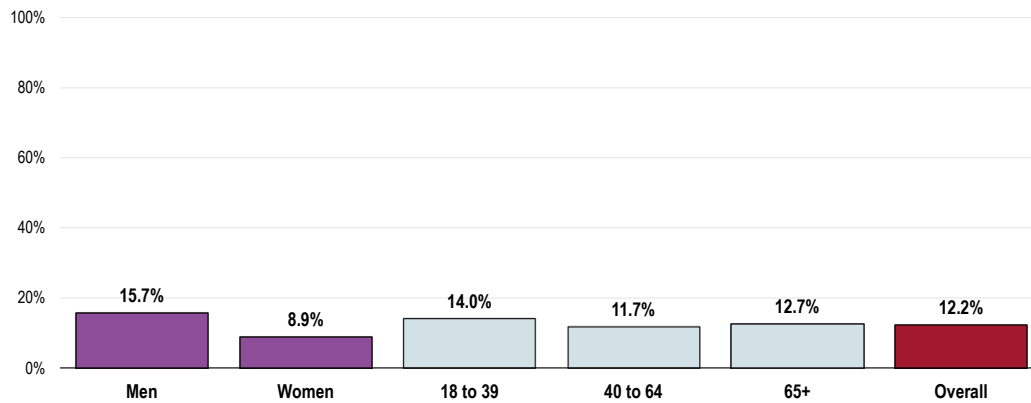
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 156]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective TU-1.1]

Notes: • Asked of all respondents.  
 • Includes regular and occasional smokers (those who smoke cigarettes everyday or on some days).

- Cigarette smoking is more prevalent among men.

### Current Smokers (EHHS Service Area, 2015)

Healthy People 2020 Target = 12.0% or Lower



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 156]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective TU-1.1]

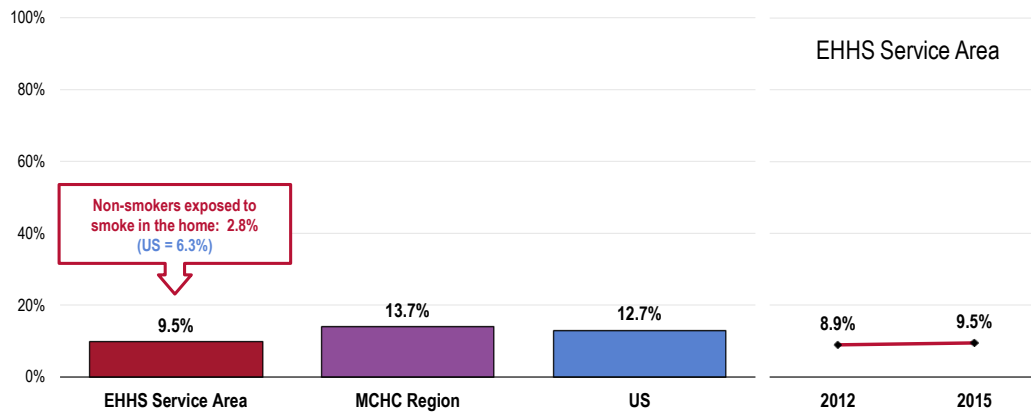
Notes: • Asked of all respondents.  
 • Includes regular and occasion smokers (everyday and some days).

### Environmental Tobacco Smoke

A total of 9.5% of Edward Hospital Service Area adults (including smokers and non-smokers) report that a member of their household has smoked cigarettes in the home an average of 4+ times per week over the past month.

- Better than the regional results.
- Similar to national findings.
- TREND: Statistically unchanged over time.
- Note that 2.8% of Edward Hospital Service Area non-smokers are exposed to cigarette smoke at home, lower than what is found nationally.

### Member of Household Smokes at Home



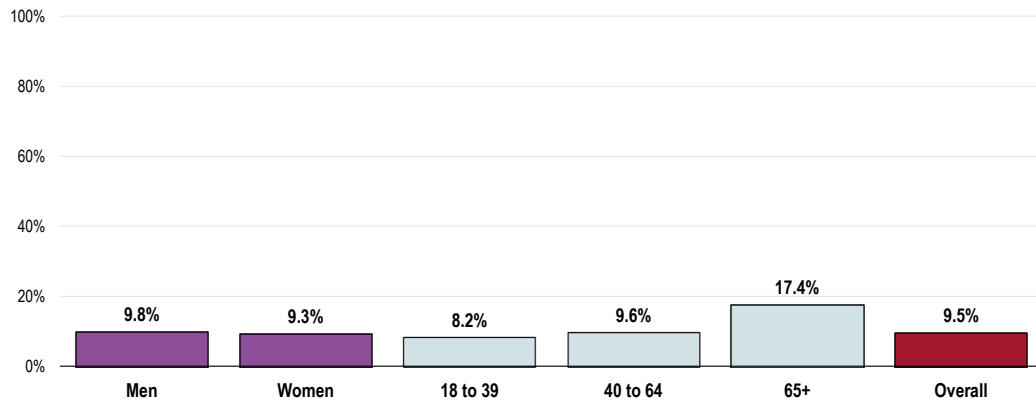
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 59, 158]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.

Notes: • Asked of all respondents.  
 • "Smokes at home" refers to someone smoking cigarettes, cigars, or a pipe in the home an average of four or more times per week in the past month.

- The prevalence is higher among seniors when compared with adults under 65.



### Member of Household Smokes At Home (EHHS Service Area, 2015)

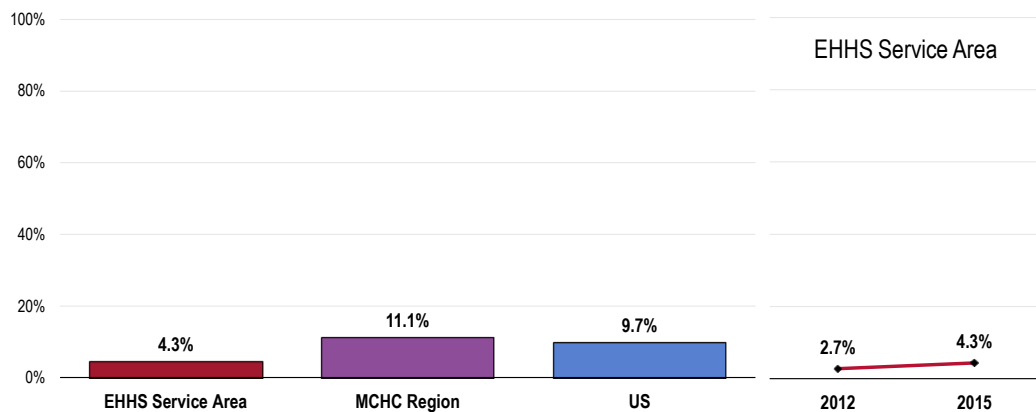


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 59]  
 Notes: • Asked of all respondents.  
 • "Smokes at home" refers to someone smoking cigarettes, cigars, or a pipe in the home an average of four or more times per week in the past month.

**Among households with children, 4.3% have someone who smokes cigarettes in the home.**

- Better than the regional results.
- Better than national findings.
- TREND: Statistically unchanged over time.

### Percentage of Households With Children In Which Someone Smokes in the Home (Among Households With Children)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 159]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Reflects respondents with children 0 to 17 in the household.  
 • "Smokes at home" refers to someone smoking cigarettes, cigars, or a pipe in the home an average of four or more times per week in the past month.

## Smoking Cessation

### About Reducing Tobacco Use

Preventing tobacco use and helping tobacco users quit can improve the health and quality of life for Americans of all ages. People who stop smoking greatly reduce their risk of disease and premature death. Benefits are greater for people who stop at earlier ages, but quitting tobacco use is beneficial at any age.

Many factors influence tobacco use, disease, and mortality. Risk factors include race/ethnicity, age, education, and socioeconomic status. Significant disparities in tobacco use exist geographically; such disparities typically result from differences among states in smoke-free protections, tobacco prices, and program funding for tobacco prevention.

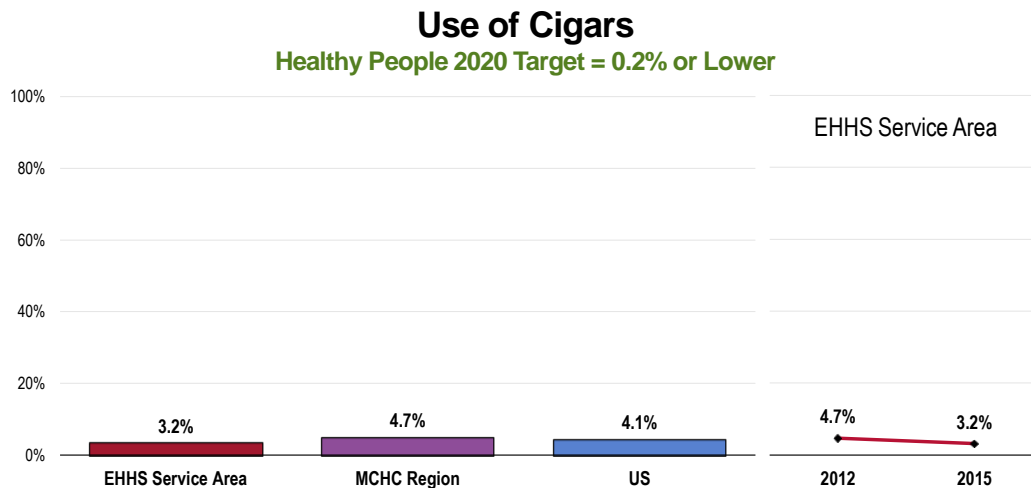
- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

## Other Tobacco Use

### Cigars

**A total of 3.2% of service area adults use cigars every day or on some days.**

- Similar to the regional results.
- Similar to the national percentage.
- Fails to satisfy the Healthy People 2020 target (0.2% or lower).
- TREND: No statistically significant change since 2012.



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 61]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective TU-1.3]

Notes: • Asked of all respondents.

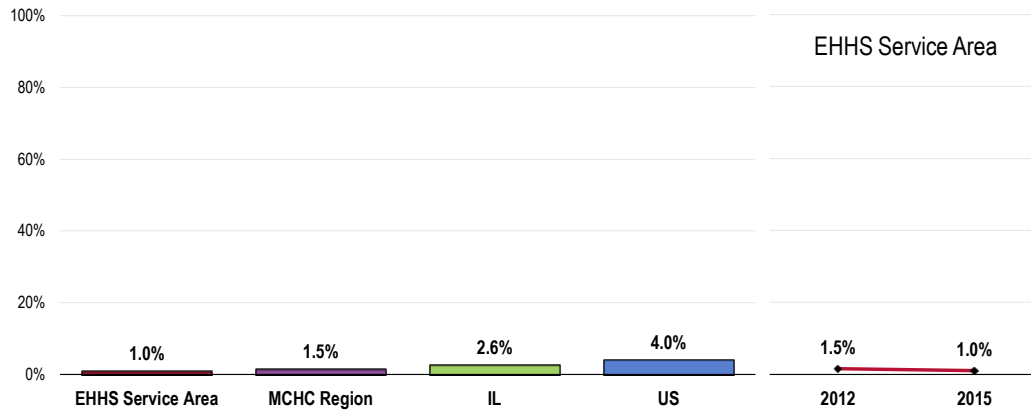
### Smokeless Tobacco

**A total of 1.0% of Edward Hospital Service Area adults use some type of smokeless tobacco every day or on some days.**

Examples of smokeless tobacco include chewing tobacco, snuff, or "snus."

- Similar to the regional results.
- Better than the state percentage.
- Better than the national percentage.
- Similar to the Healthy People 2020 target (0.3% or lower).
- TREND: Statistically similar to 2012 findings.

### Use of Smokeless Tobacco Healthy People 2020 Target = 0.3% or Lower

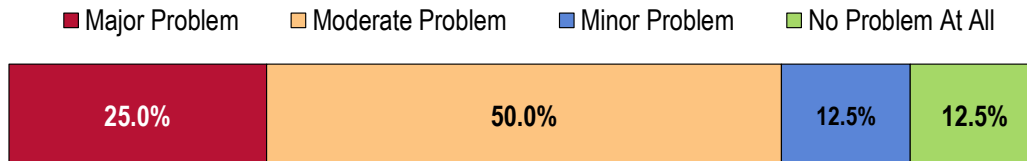


- Sources:
- PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 60]
  - 2013 PRC National Health Survey, Professional Research Consultants, Inc.
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.
  - US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective TU-1.2]
- Notes:
- Asked of all respondents.
  - Smokeless tobacco includes chewing tobacco or snuff.

### ***Key Informant Input: Tobacco Use***

The greatest share of key informants taking part in an online survey characterized *Tobacco Use* as a “moderate problem” in the community.

#### **Perceptions of Tobacco Use as a Problem in the Community** (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

### **Top Concerns**

Among those rating this issue as a “major problem,” reasons frequently related to the following:

#### **Youth**

*Although tobacco use is down, too many teens start smoking each year. – Social Service Representative*

*There has always been underage smoking, but the proliferation of e-cigarettes and vapor smoking has made tobacco seem less dangerous, although the addiction factor is just as strong, if not stronger. – Community/Business Leader*

# Access to Health Services



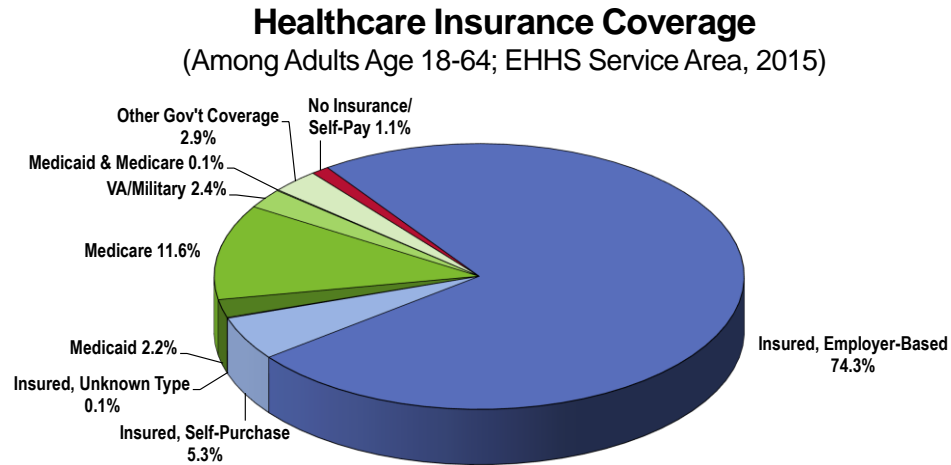
Professional Research Consultants, Inc.

## Health Insurance Coverage

### Type of Healthcare Coverage

A total of 79.7% of Edward Hospital Service Area adults age 18 to 64 report having healthcare coverage through private insurance. Another 19.2% report coverage through a government-sponsored program (e.g., Medicaid, Medicare, military benefits).

Survey respondents were asked a series of questions to determine their healthcare insurance coverage, if any, from either private or government-sponsored sources.



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 165]  
Notes: • Reflects respondents age 18 to 64.

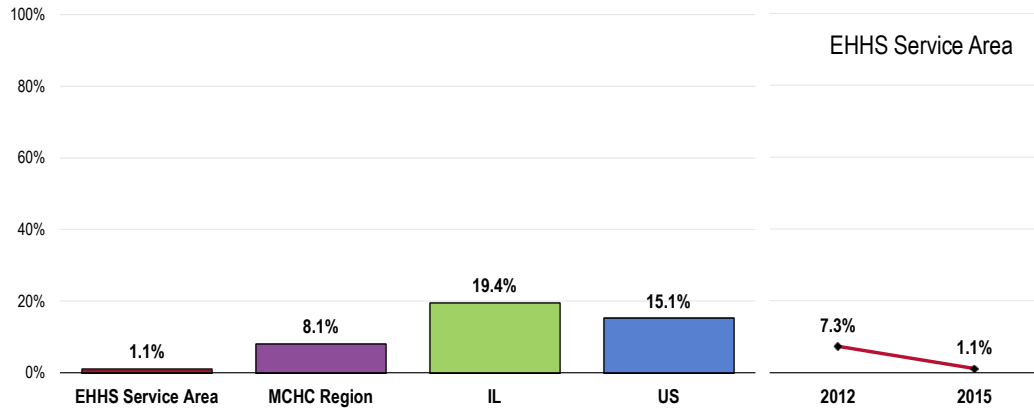
### Lack of Health Insurance Coverage

Among adults age 18 to 64, 1.1% report having no insurance coverage for healthcare expenses.

Here, lack of health insurance coverage reflects respondents age 18 to 64 (thus, excluding the Medicare population) who have no type of insurance coverage for healthcare services – neither private insurance nor government-sponsored plans (e.g., Medicaid).

- Better than the regional results.
- Far below the latest state and national benchmarks; note, however, that state and national data predate the implementation of the health insurance marketplace.
- The Healthy People 2020 target is universal coverage (0% uninsured).
- TREND: Denotes a statistically significant decrease over time.

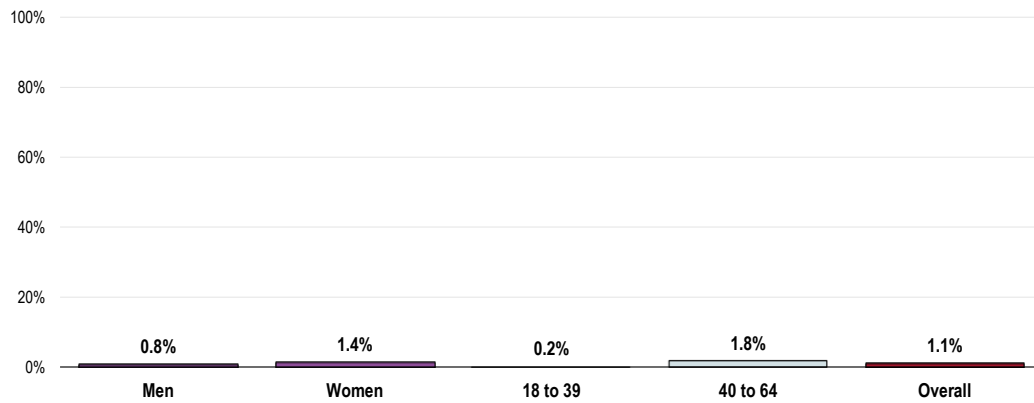
### Lack of Healthcare Insurance Coverage (Among Adults Age 18-64) Healthy People 2020 Target = 0.0% (Universal Coverage)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 165]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective AHS-1]  
 Notes: • Asked of all respondents under the age of 65.

Healthcare insurance coverage does not differ significantly by demographic characteristics.

### Lack of Healthcare Insurance Coverage (Among Adults Age 18-64; EHHS Service Area, 2015) Healthy People 2020 Target = 0.0% (Universal Coverage)



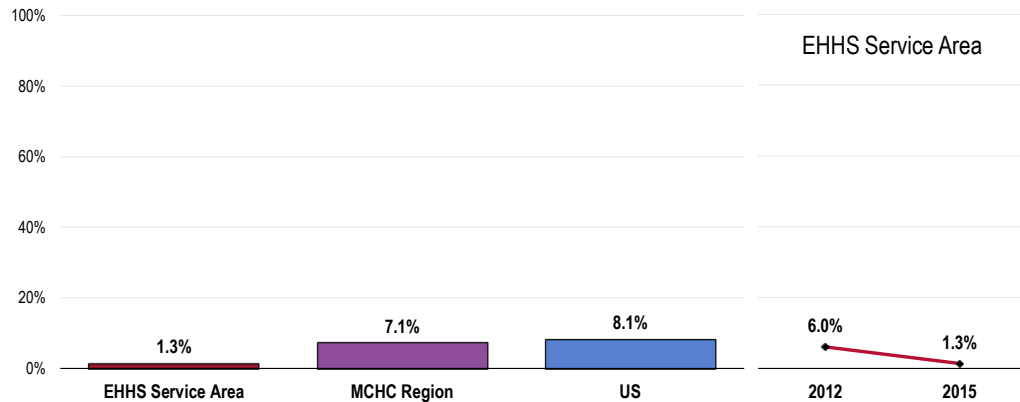
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 165]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective AHS-1]  
 Notes: • Asked of all respondents under the age of 65.

### Recent Lack of Coverage

Among currently insured adults in the Edward Hospital Service Area, 1.3% report that they were without healthcare coverage at some point in the past year.

- Better than the regional results.
- Better than US findings.
- TREND: Marks a statistically significant decrease since 2012.

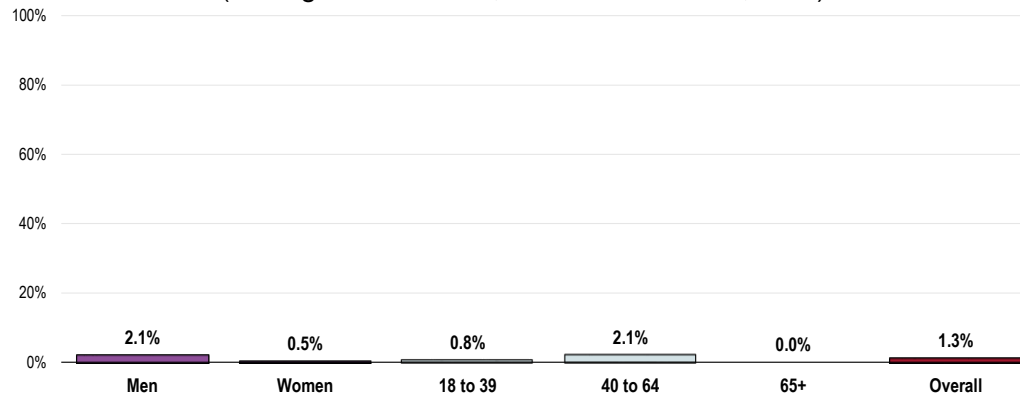
### Went Without Healthcare Insurance Coverage At Some Point in the Past Year (Among Insured Adults)



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 79]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all insured respondents.

- Among insured adults, residents between the ages of 40 and 64 are more likely to have gone without healthcare insurance coverage at some point in the past year.

### Went Without Healthcare Insurance Coverage At Some Point in the Past Year (Among Insured Adults; EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 79]  
 Notes: • Asked of all insured respondents.



## Difficulties Accessing Healthcare

### About Access to Healthcare

Access to comprehensive, quality health care services is important for the achievement of health equity and for increasing the quality of a healthy life for everyone. It impacts: overall physical, social, and mental health status; prevention of disease and disability; detection and treatment of health conditions; quality of life; preventable death; and life expectancy.

Access to health services means the timely use of personal health services to achieve the best health outcomes. It requires three distinct steps: 1) Gaining entry into the health care system; 2) Accessing a health care location where needed services are provided; and 3) Finding a health care provider with whom the patient can communicate and trust.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

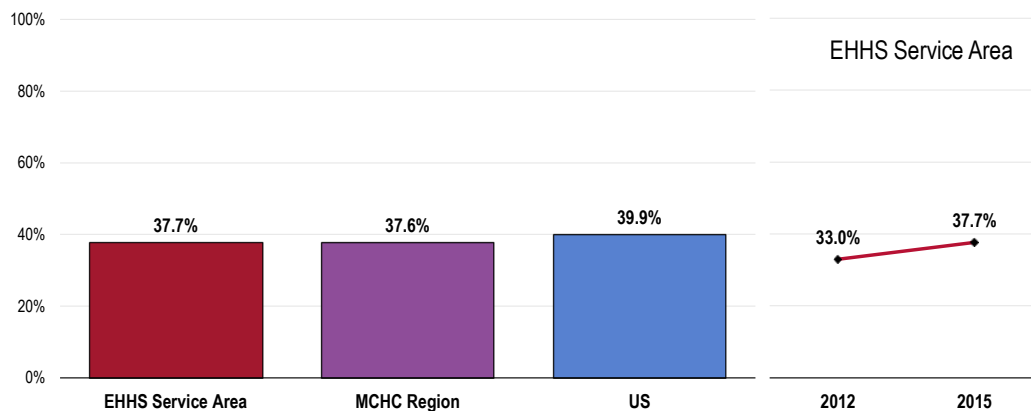
### Difficulties Accessing Services

A total of 37.7% of Edward Hospital Service Area adults report some type of difficulty or delay in obtaining healthcare services in the past year.

This indicator reflects the percentage of the total population experiencing problems accessing healthcare in the past year, regardless of whether they needed or sought care.

- Similar to the regional results.
- Similar to national findings.
- TREND: Statistically unchanged over time.

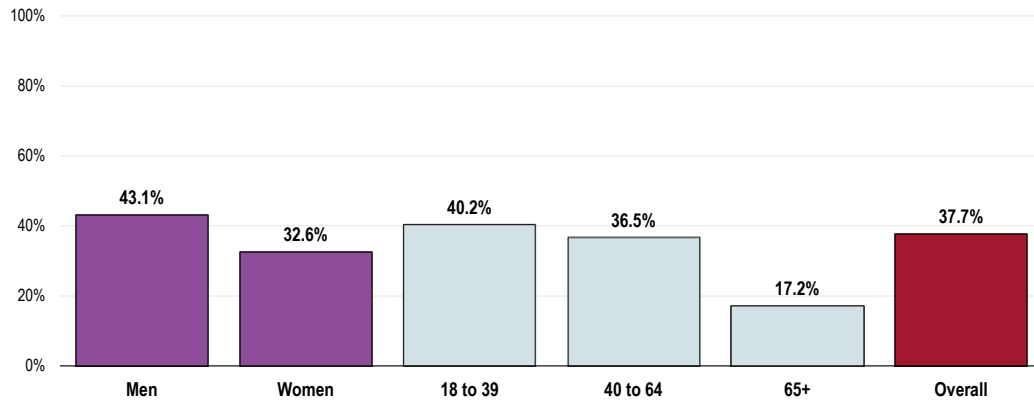
### Experienced Difficulties or Delays of Some Kind in Receiving Needed Healthcare in the Past Year



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 169]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.  
 • Represents the percentage of respondents experiencing one or more barriers to accessing healthcare in the past 12 months.

- Men and younger adults more often report difficulties accessing healthcare services (negative correlation with age).

## Experienced Difficulties or Delays of Some Kind in Receiving Needed Healthcare in the Past Year (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 169]  
 Notes: • Asked of all respondents.  
 • Represents the percentage of respondents experiencing one or more barriers to accessing healthcare in the past 12 months.

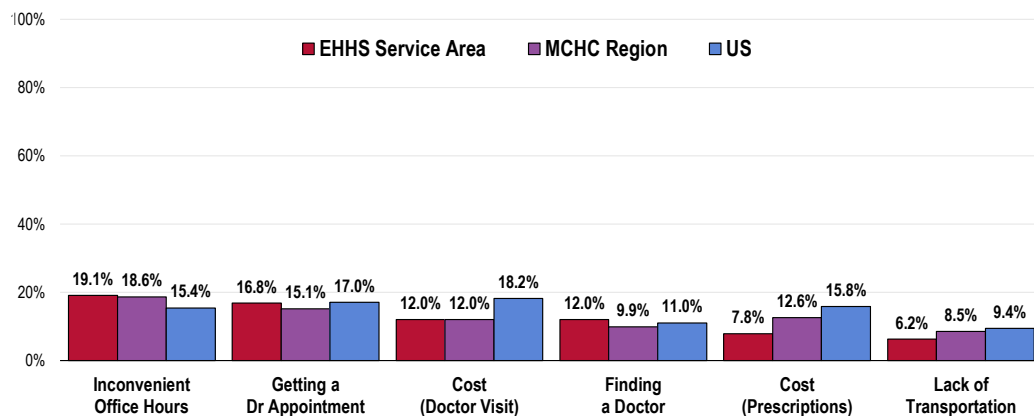
## Barriers to Healthcare Access

Of the tested barriers, inconvenient office hours impacted the greatest share of Edward Hospital Service Area adults (19.1% say that inconvenient office hours prevented them from obtaining medical care in the past year).

To better understand healthcare access barriers, survey participants were asked whether any of six types of barriers to access prevented them from seeing a physician or obtaining a needed prescription in the past year.

- The proportion of Edward Hospital Service Area adults impacted was statistically comparable to or better than that found nationwide for each of the tested barriers.

## Barriers to Access Have Prevented Medical Care in the Past Year



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Items 7-12]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

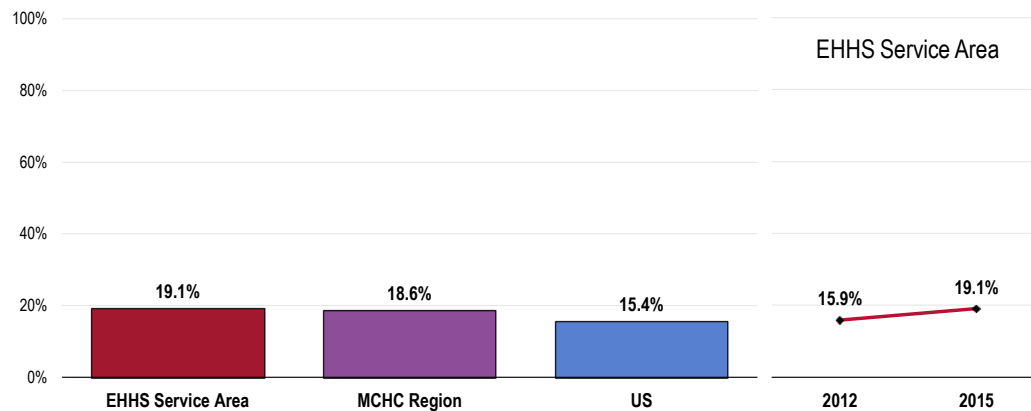
Again, these percentages reflect the total population, regardless of whether medical care was needed or sought.

### Inconvenient Office Hours

Among all Edward Hospital Service Area adults, 19.1% report that inconvenient office hours prevented their medical care at least once in the past year.

- Similar to the regional results.
- Similar to national findings.
- TREND: Statistically similar to 2012 findings.

### Inconvenient Office Hours Prevented a Physician Visit in the Past Year



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 11]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.

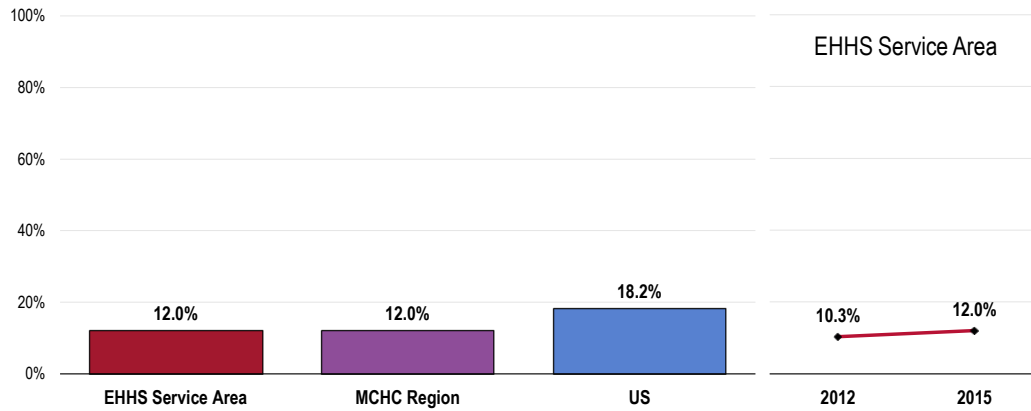
Notes: • Asked of all respondents.

### Cost of Doctor Visits

A total of 12.0% of service area respondents report that the cost of a physician visit prevented their medical care in the past year.

- Similar to the regional results.
- Below the US prevalence.
- TREND: Statistically unchanged since 2012.

### Cost Prevented a Physician Visit in the Past Year



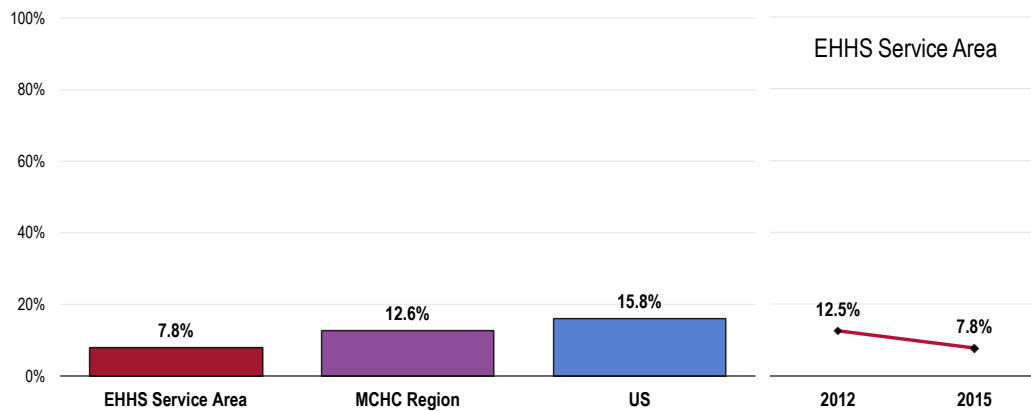
Sources: ● PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 9]  
 ● 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: ● Asked of all respondents.

### Cost of Prescription Medications

Among all Edward Hospital Service Area adults, 7.8% report that cost prevented them from obtaining a prescription medication at some point in the past year.

- More favorable than the regional results.
- More favorable than national findings.
- TREND: Statistically unchanged since 2012.

### Cost Prevented a Prescription Medication in the Past Year



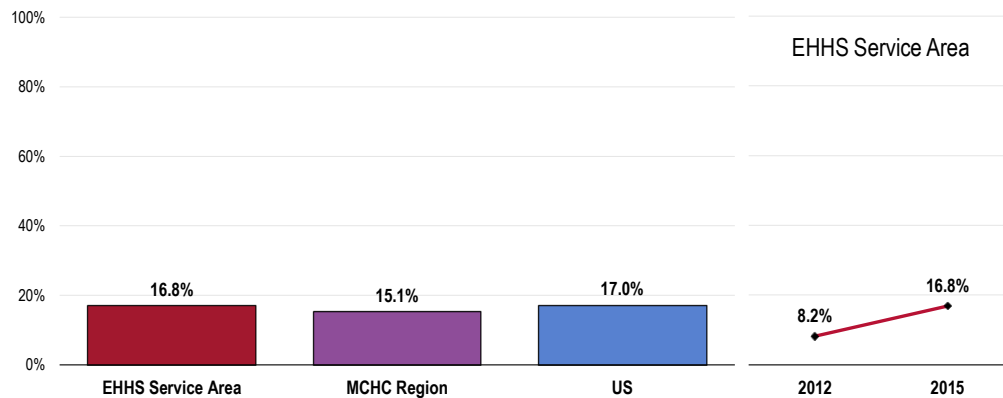
Sources: ● PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 12]  
 ● 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: ● Asked of all respondents.

## Obtaining a Medical Appointment

For 16.8% of service area adults, difficult getting a medical appointment prevented their care in the past year.

- Similar to the regional results.
- Similar to national findings.
- TREND: Denotes a statistically significant increase over time.

### Experienced Difficulty Getting a Medical Appointment in the Past Year



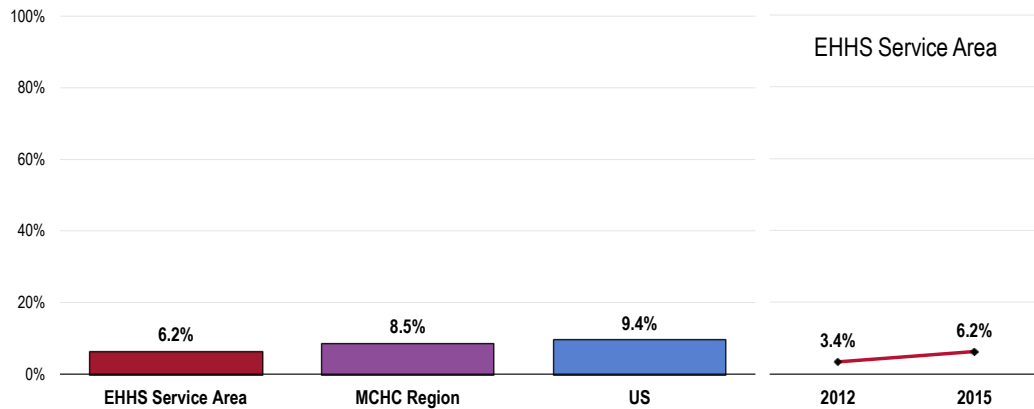
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 8]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

## Lack of Transportation

A total of 6.2% of area adults said a lack of transportation prevented their care in the past year.

- Similar to the regional results.
- Better than national findings.
- TREND: Statistically unchanged since 2012.

### Lack of Transportation Prevented Medical Care in the Past Year



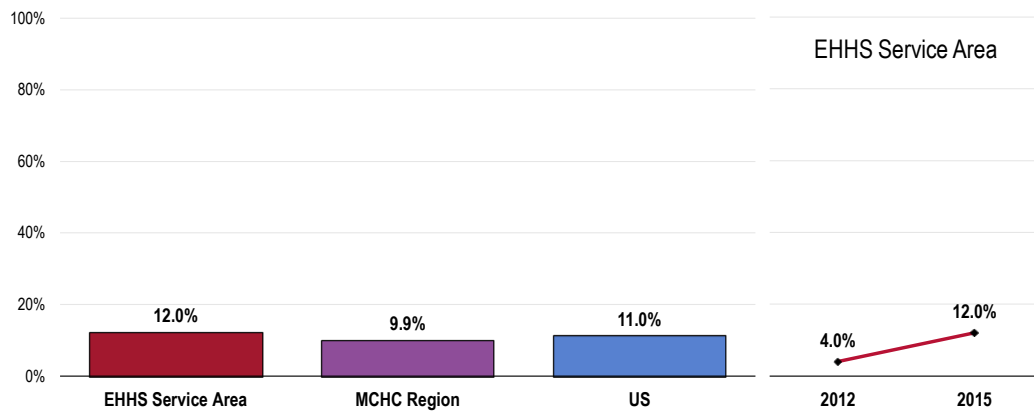
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 10]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

### Finding a Physician

A total of 12.0% of survey respondents had difficulty finding a physician in the past year.

- Similar to the regional results.
- Similar to the US prevalence.
- TREND: Significant increase since 2012.

### Experienced Difficulty Finding a Doctor in the Past Year



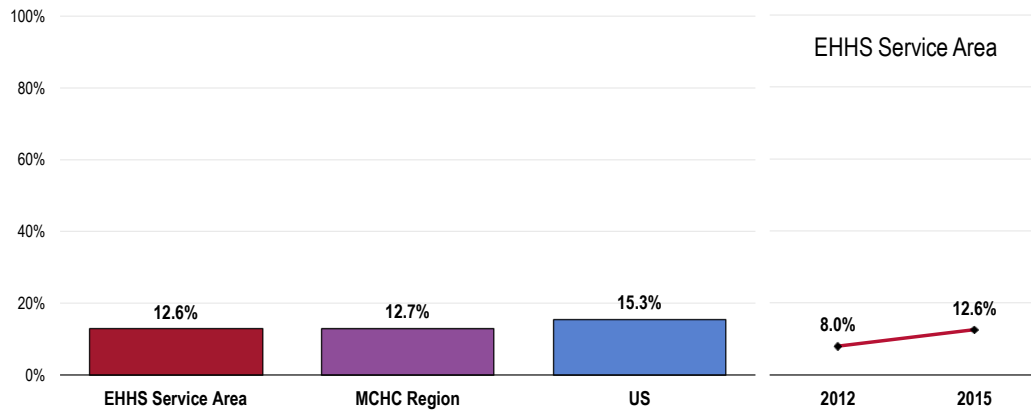
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 7]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

### Prescriptions

Among all Edward Hospital Service Area adults, 12.6% skipped or reduced medication doses in the past year in order to stretch a prescription and save money.

- Similar to the regional results.
- Similar to national findings.
- TREND: Statistically similar over time.

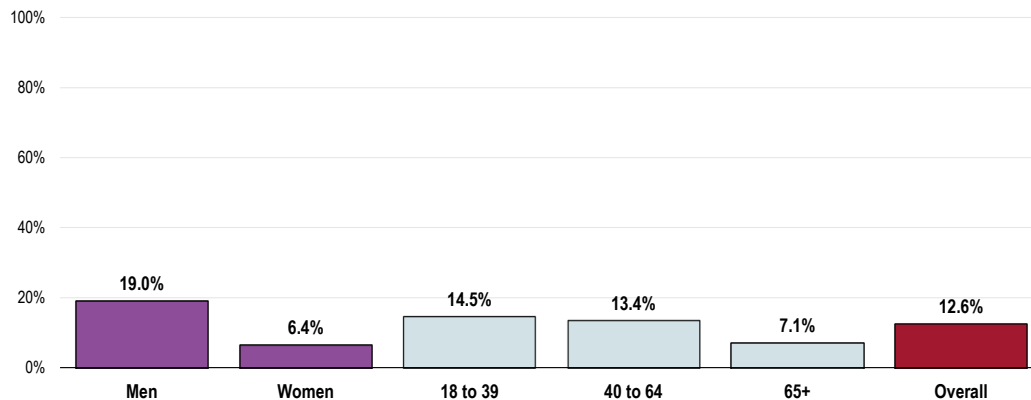
### Skipped or Reduced Prescription Doses in Order to Stretch Prescriptions and Save Money



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 13]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

- Men are more likely to have skipped or reduced their prescription doses.

### Skipped or Reduced Prescription Doses in Order to Stretch Prescriptions and Save Money (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 13]  
 Notes: • Asked of all respondents.

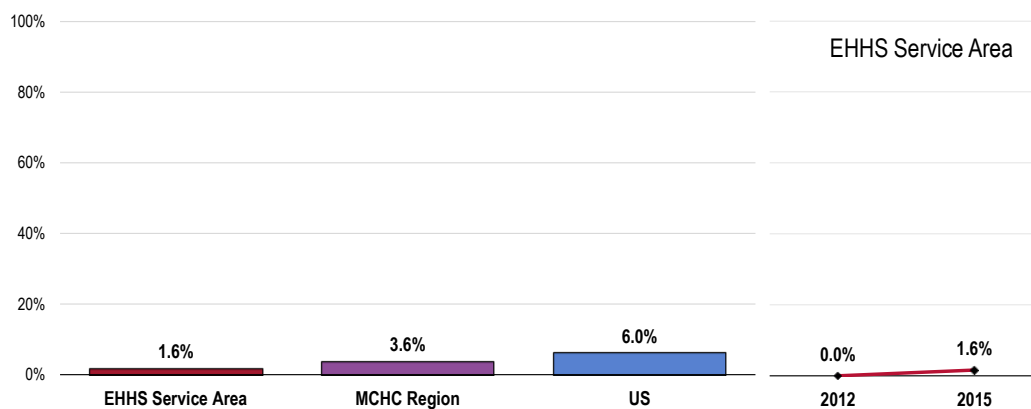
## Accessing Healthcare for Children

A total of 1.6% of parents say there was a time in the past year when they needed medical care for their child, but were unable to get it.

Surveyed parents were also asked if, within the past year, they experienced any trouble receiving medical care for a randomly-selected child in their household.

- Similar to the regional results.
- More favorable than what is reported nationwide.
- TREND: Statistically similar over time.

### Had Trouble Obtaining Medical Care for Child in the Past Year (Among Parents of Children 0-17)

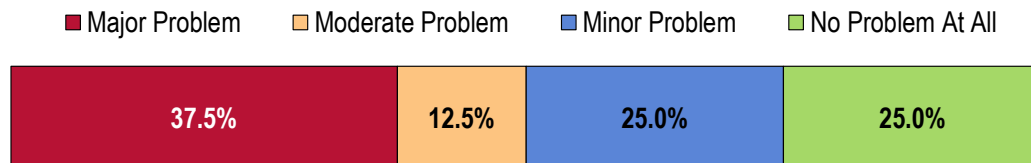


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 111-112]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents with children 0 to 17 in the household.

### Key Informant Input: Access to Healthcare Services

Key informants taking part in an online survey more often characterized *Access to Healthcare Services* as a “major problem” in the community.

### Perceptions of Access to Healthcare Services as a Problem in the Community (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.



### Top Concerns

Among those rating this issue as a “major problem,” reasons frequently related to the following:

#### Access to Care

*People who are ineligible for ACA care (undocumented) need services. Access to DuPage is a critical lifeline for them. People who are in Medicaid managed care are often confused about how to use their benefits. People on high deductible ACA plans really can't afford to get care and are 'functionally uninsured.'* – Social Service Representative

*Understanding the transition of Medicaid to managed care plans, high deductible marketplace plans requiring a significant investment of out of pocket costs, and access to specialty health services, vision, dental, hearing, mental health/substance abuse for safety net (Medicaid, uninsured and underinsured populations).* – Public Health Expert

#### Nonclinical Factors

*There is a growing awareness of the nonclinical factors that influence (positively or negatively) health status and health needs, housing, education/literacy levels, employment status, etc. We are working to address those through our work with IMPACT DuPage.* – Public Health Expert

#### Language/Cultural Barriers

*Need for language access services due to the increasing number of persons with limited English proficiency in DuPage County.* – Social Service Representative

### Type of Care Most Difficult to Access

**Key informants (who rated this as a “major problem”) most often identified mental health and specialty care as the most difficult to access in the community.**

	Most Difficult to Access	Second–Most Difficult to Access	Third–Most Difficult to Access	Total Mentions
Mental Health Care	66.7%	33.3%	0.0%	3
Specialty Care	33.3%	0.0%	66.7%	3
Substance Abuse Treatment	0.0%	66.7%	0.0%	2
Dental Care	0.0%	0.0%	33.3%	1

## Primary Care Services

### About Primary Care

Improving health care services depends in part on ensuring that people have a usual and ongoing source of care. People with a usual source of care have better health outcomes and fewer disparities and costs. Having a primary care provider (PCP) as the usual source of care is especially important. PCPs can develop meaningful and sustained relationships with patients and provide integrated services while practicing in the context of family and community. Having a usual PCP is associated with:

- Greater patient trust in the provider
- Good patient-provider communication
- Increased likelihood that patients will receive appropriate care

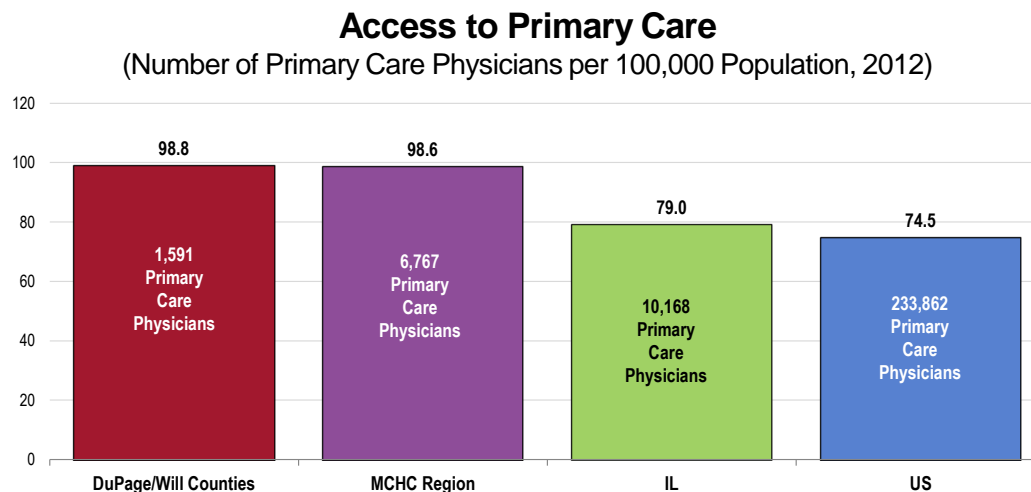
Improving health care services includes increasing access to and use of evidence-based preventive services. Clinical preventive services are services that: **prevent** illness by detecting early warning signs or symptoms before they develop into a disease (primary prevention); or **detect** a disease at an earlier, and often more treatable, stage (secondary prevention).

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

### Access to Primary Care

In the Edward Hospital Service Area in 2012, there were 1,591 primary care physicians, translating to a rate of 98.8 primary care physicians per 100,000 population.

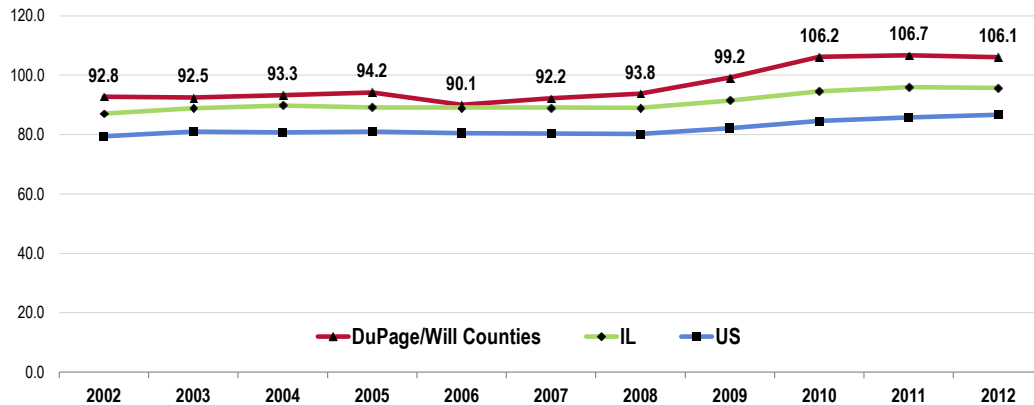
- Similar to the MCHC Region.
- Well above the primary care physician-to-population ratio found statewide.
- Well above the ratio found nationally.



- Sources:
- US Department of Health & Human Services, Health Resources and Services Administration, Area Health Resource File: 2012.
  - Retrieved August 2015 from Community Commons at <http://www.chna.org>.
- Notes:
- This indicator is relevant because a shortage of health professionals contributes to access and health status issues.

- **TREND:** Access to primary care (in terms of the ratio of primary care physicians to population) has improved over the past decade in DuPage and Will counties, echoing the state and national trends.

**Trends in Access to Primary Care**  
(Number of Primary Care Physicians per 100,000 Population)



Sources:
 

- US Department of Health & Human Services, Health Resources and Services Administration, Area Health Resource File: 2012.
- Retrieved August 2015 from Community Commons at <http://www.chna.org>.

 Notes:
 

- This indicator is relevant because a shortage of health professionals contributes to access and health status issues.
- These figures represent all primary care physicians practicing patient care, including hospital residents. In counties with teaching hospitals, this figure may differ from the rate reported in the previous chart.

### Specific Source of Ongoing Care

**A total of 80.8% of Edward Hospital Service Area adults were determined to have a specific source of ongoing medical care.**

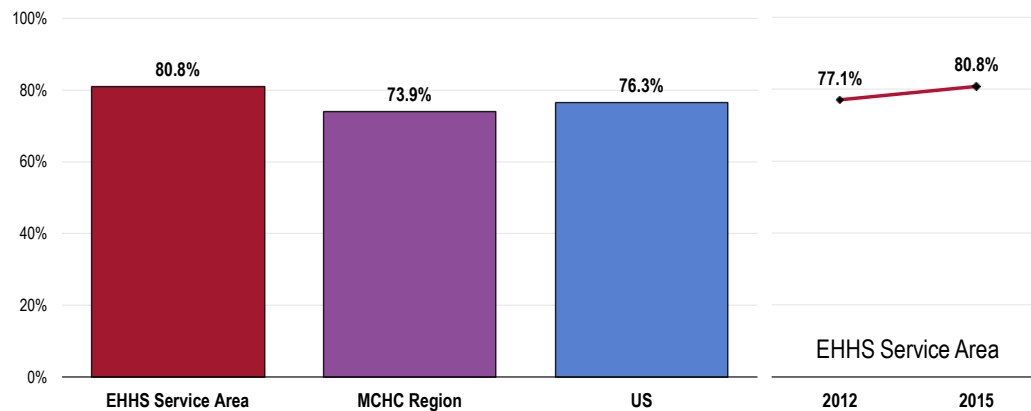
- Better than the regional results.
- Better than the national findings.
- Fails to satisfy the Healthy People 2020 objective (95% or higher).
- **TREND:** Statistically unchanged over time.

Having a specific source of ongoing care includes having a doctor's office, clinic, urgent care center, walk-in clinic, health center facility, hospital outpatient clinic, HMO or prepaid group, military/VA clinic, or some other kind of place to go if one is sick or needs advice about his or her health. This resource is crucial to the concept of "patient-centered medical homes" (PCMH).

A hospital emergency room is not considered a specific source of ongoing care in this instance.

## Have a Specific Source of Ongoing Medical Care

Healthy People 2020 Target = 95.0% or Higher [All Ages]



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 166]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective AHS-5.1]

Notes: • Asked of all respondents.

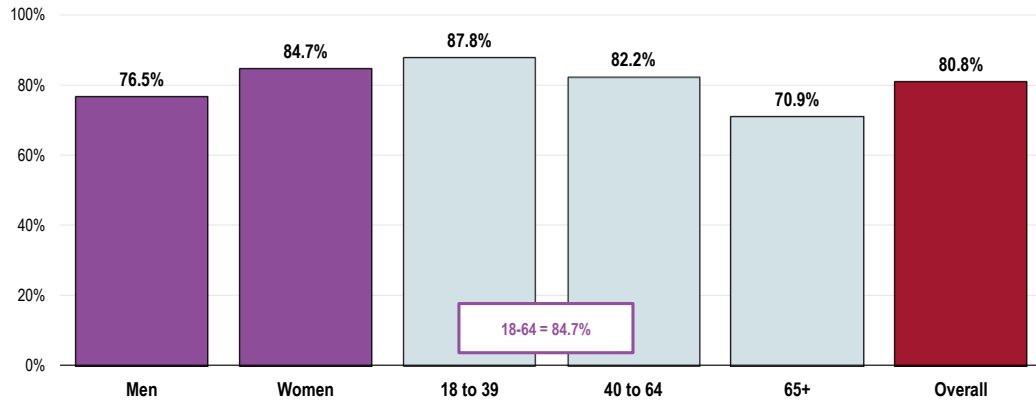
When viewed by demographic characteristics, the following population segments are less likely to have a specific source of care:

- Men.
- Adults under age 65 (negative correlation with age).
- Among adults age 18-64, 84.7% have a specific source for ongoing medical care, better than national findings.
  - Fails to satisfy the Healthy People 2020 target for this age group (89.4% or higher).
- Among adults 65+, 70.9% have a specific source for care, similar to the percentage reported among seniors nationally.
  - Fails to satisfy the Healthy People 2020 target of 100% for seniors.

### Have a Specific Source of Ongoing Medical Care

(EHHS Service Area, 2015)

Healthy People 2020 Target = 95.0% or Higher [All Ages]; ≥89.4% [18-64]; 100% [65+]



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Items 166-168]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objectives AHS-5.1, 5.3, 5.4]  
 Notes: • Asked of all respondents.

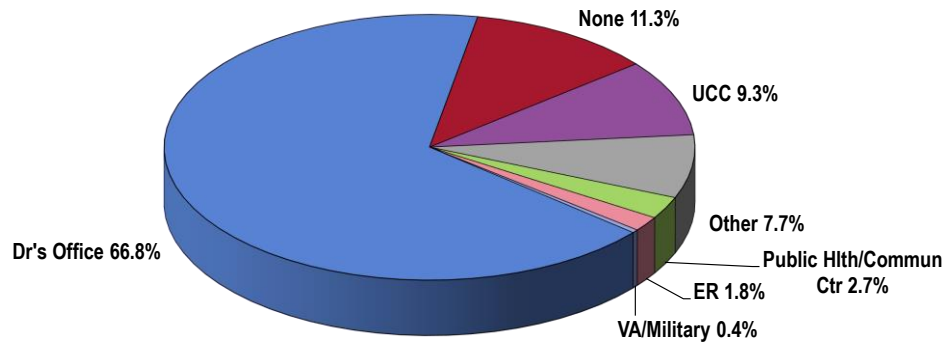
### Type of Place Used for Medical Care

When asked where they usually go if they are sick or need advice about their health, the greatest share of respondents (66.8%) identified a particular doctor’s office, followed by references to urgent-care centers (mentioned by 9.3%) and public or community health centers (2.7%).

Note that 1.8% of respondents rely on a hospital emergency room, and 0.4% use some type of military/VA facility.

### Particular Place Utilized for Medical Care

(EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Items 15-16]  
 Notes: • Asked of all respondents.

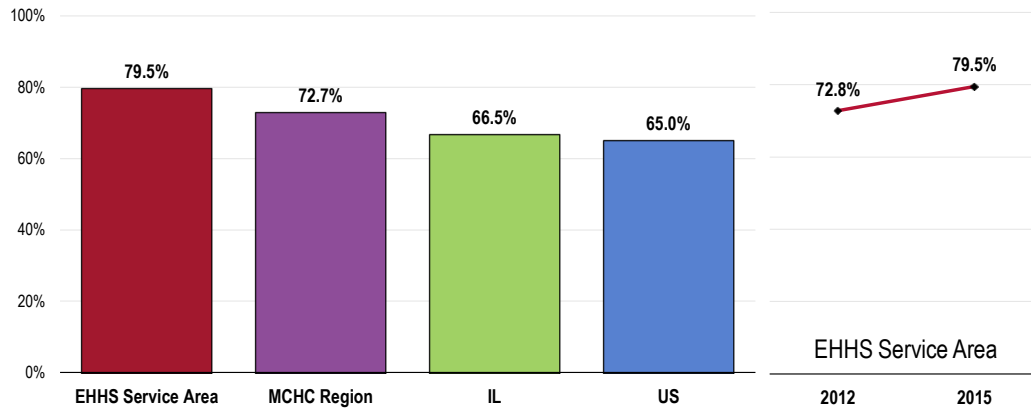
## Utilization of Primary Care Services

### Adults

Nearly 8 in 10 adults (79.5%) visited a physician for a routine checkup in the past year.

- Higher than the regional results.
- Higher than state findings.
- Higher than national findings.
- TREND: The increase since 2012 is not statistically significant.

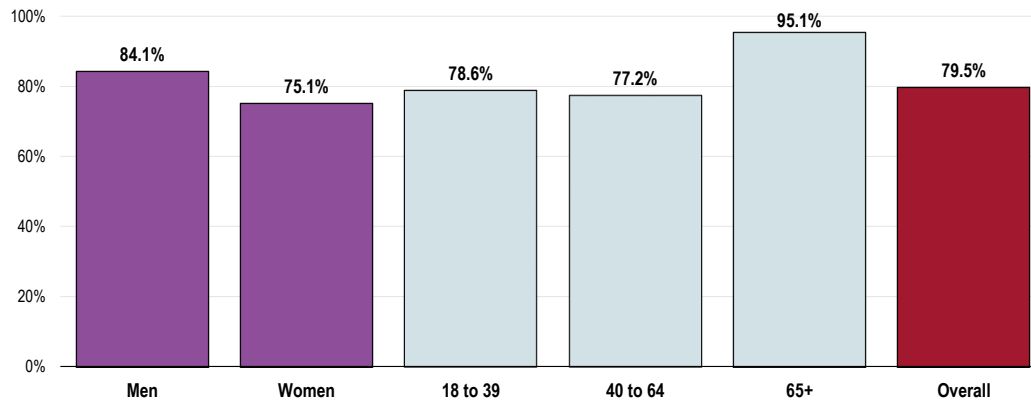
### Have Visited a Physician for a Checkup in the Past Year



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 17]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2013 Illinois data.  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

- Women and adults under 65 are less likely to have seen a doctor for a routine checkup in the past year.

### Have Visited a Physician for a Checkup in the Past Year (EHHS Service Area, 2015)



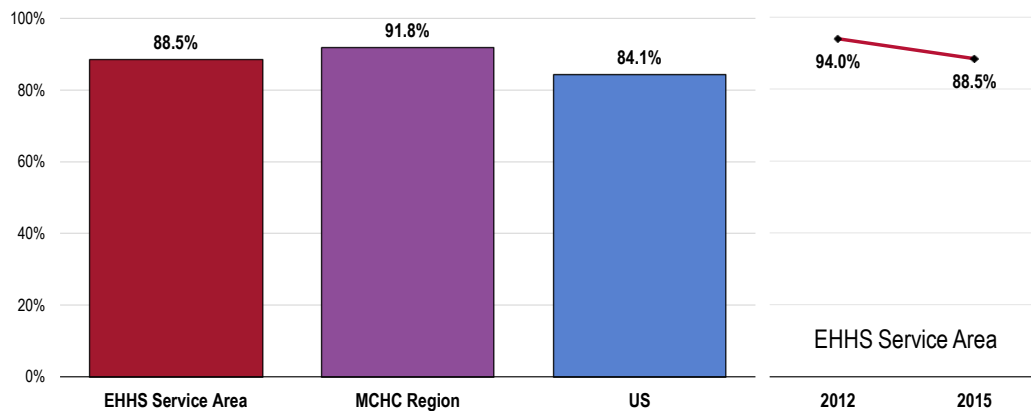
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 17]  
 Notes: • Asked of all respondents.

### Children

Among surveyed parents, 88.5% report that their child has had a routine checkup in the past year.

- Similar to the regional results.
- Similar to the national findings.
- TREND: The decrease since 2012 is not statistically significant.

#### Child Has Visited a Physician for a Routine Checkup in the Past Year (Among Parents of Children 0-17)



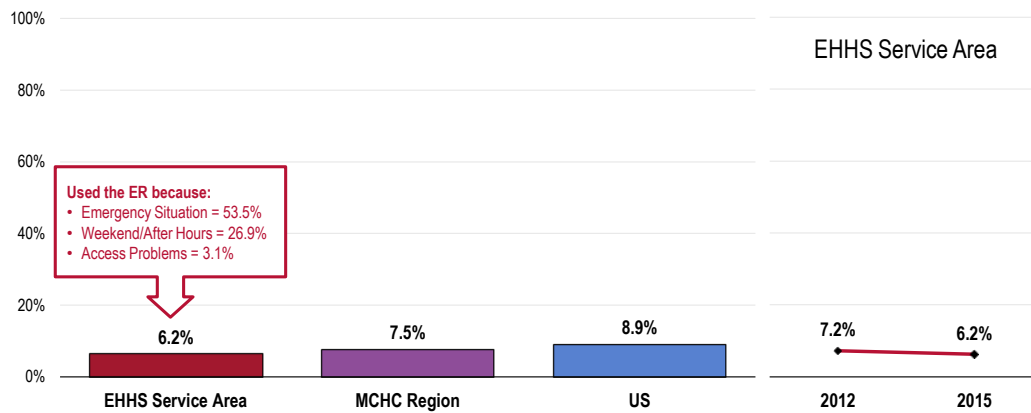
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 113]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents with children 0 to 17 in the household.

## Emergency Room Utilization

A total of 6.2% of Edward Hospital Service Area adults have gone to a hospital emergency room more than once in the past year about their own health.

- Comparable to the regional results.
- Comparable to national findings.
- TREND: Statistically unchanged over time.

### Have Used a Hospital Emergency Room More Than Once in the Past Year



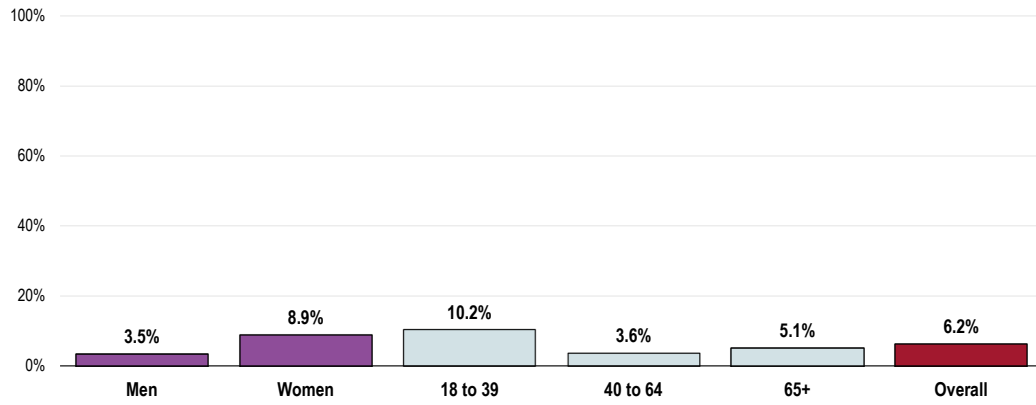
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 23-24]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

Of those using a hospital ER, 53.5% say this was due to an **emergency or life-threatening situation**, while 26.9% indicated that the visit was during **after-hours or on the weekend**. A total of 3.1% cited **difficulties accessing primary care** for various reasons.

- Women and adults under 40 were more likely to have used the ER more than once for care in the past year.



### Have Used a Hospital Emergency Room More Than Once in the Past Year (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 23]  
 Notes: • Asked of all respondents.

## Oral Health

### About Oral Health

Oral health is essential to overall health. Good oral health improves a person's ability to speak, smile, smell, taste, touch, chew, swallow, and make facial expressions to show feelings and emotions. However, oral diseases, from cavities to oral cancer, cause pain and disability for many Americans. Good self-care, such as brushing with fluoride toothpaste, daily flossing, and professional treatment, is key to good oral health. Health behaviors that can lead to poor oral health include: **tobacco use**; **excessive alcohol use**; and **poor dietary choices**.

The significant improvement in the oral health of Americans over the past 50 years is a public health success story. Most of the gains are a result of effective prevention and treatment efforts. One major success is community water fluoridation, which now benefits about 7 out of 10 Americans who get water through public water systems. However, some Americans do not have access to preventive programs. People who have the least access to preventive services and dental treatment have greater rates of oral diseases. A person's ability to access oral healthcare is associated with factors such as education level, income, race, and ethnicity.

Barriers that can limit a person's use of preventive interventions and treatments include: limited access to and availability of dental services; lack of awareness of the need for care; cost; and fear of dental procedures.

There are also social determinants that affect oral health. In general, people with lower levels of education and income, and people from specific racial/ethnic groups, have higher rates of disease. People with disabilities and other health conditions, like diabetes, are more likely to have poor oral health.

Potential strategies to address these issues include:

- Implementing and evaluating activities that have an impact on health behavior.
- Promoting interventions to reduce tooth decay, such as dental sealants and fluoride use.
- Evaluating and improving methods of monitoring oral diseases and conditions.
- Increasing the capacity of State dental health programs to provide preventive oral health services.
- Increasing the number of community health centers with an oral health component.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

## Dental Care

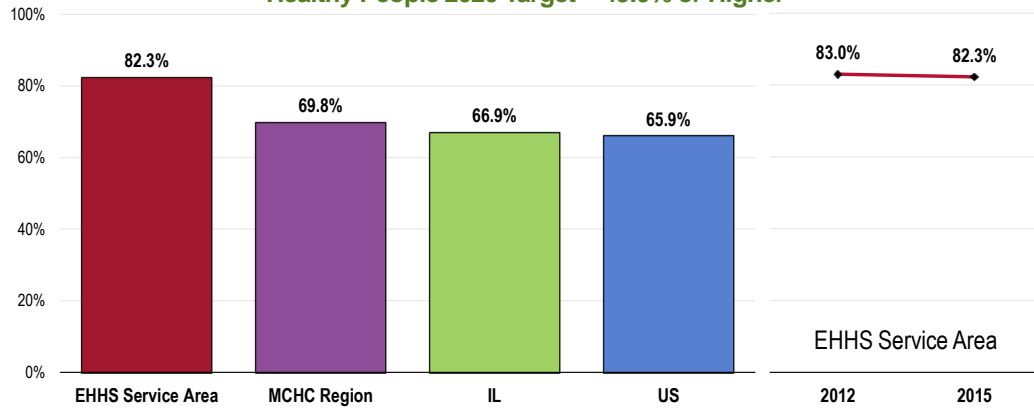
### Adults

**A total of 82.3% of Edward Hospital Service Area adults have visited a dentist or dental clinic (for any reason) in the past year.**

- Better than the regional results.
- Better than statewide findings.
- Better than national findings.
- Satisfies the Healthy People 2020 target (49% or higher).
- TREND: Statistically unchanged since 2012.

### Have Visited a Dentist or Dental Clinic Within the Past Year

Healthy People 2020 Target = 49.0% or Higher



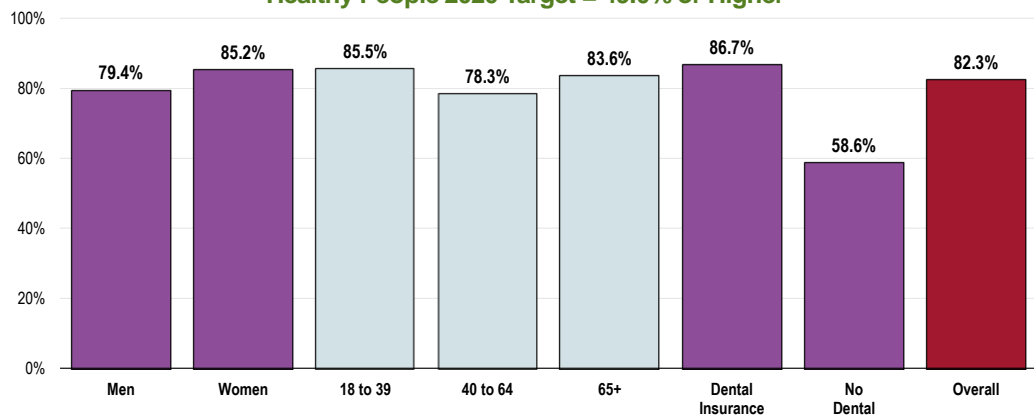
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 21]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective OH-7]  
 • Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Illinois. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC); 2012 Illinois data.

Notes: • Asked of all respondents.

- As might be expected, persons without dental insurance report much lower utilization of oral health services than those with dental coverage.

### Have Visited a Dentist or Dental Clinic Within the Past Year (EHHS Service Area, 2015)

Healthy People 2020 Target = 49.0% or Higher



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 21]  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective OH-7]

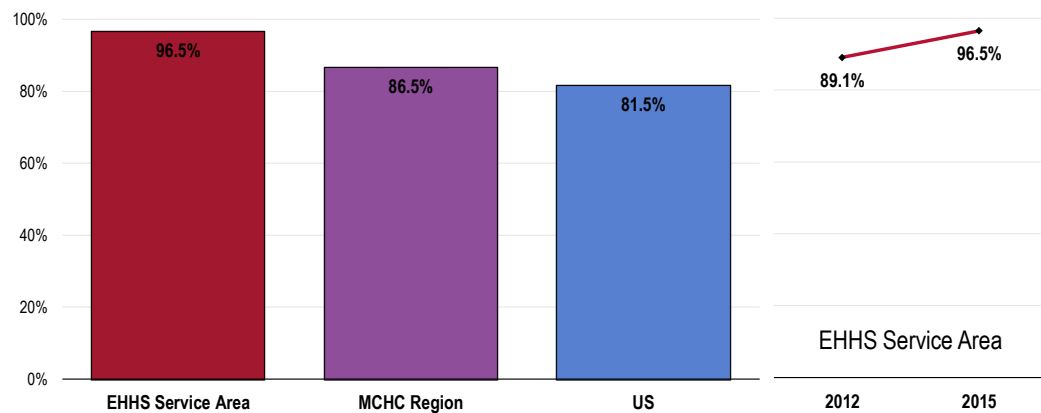
Notes: • Asked of all respondents.

## Children

A total of 96.5% of parents report that their child (age 2 to 17) has been to a dentist or dental clinic within the past year.

- More favorable than the regional results.
- More favorable than national findings.
- Satisfies the Healthy People 2020 target (49% or higher).
- TREND: Marks a statistically significant increase in children's dental care since 2012.

### Child Has Visited a Dentist or Dental Clinic Within the Past Year (Among Parents of Children Age 2-17) Healthy People 2020 Target = 49.0% or Higher



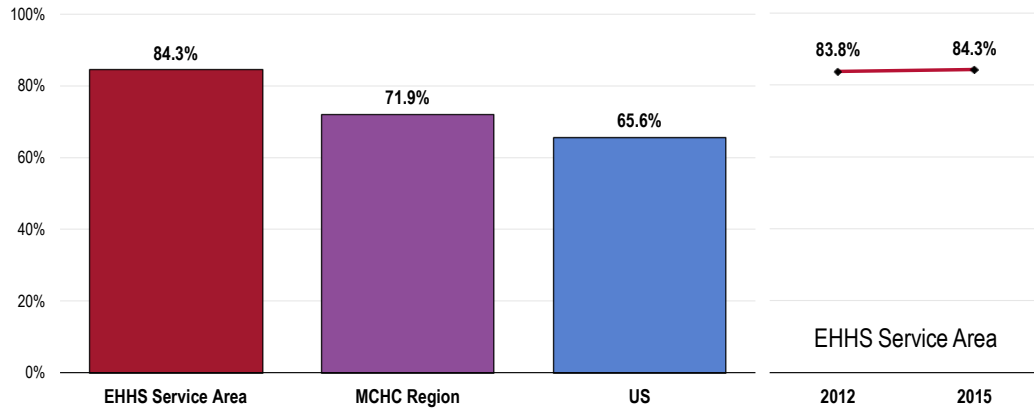
Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 116]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 • US Department of Health and Human Services. Healthy People 2020. December 2010. <http://www.healthypeople.gov> [Objective OH-7]  
 Notes: • Asked of all respondents with children age 2 through 17.

## Dental Insurance

Over 8 in 10 Edward Hospital Service Area adults (84.3%) have dental insurance that covers all or part of their dental care costs.

- Better than the regional results.
- Better than the national finding.
- TREND: Statistically unchanged since 2012.

### Have Insurance Coverage That Pays All or Part of Dental Care Costs

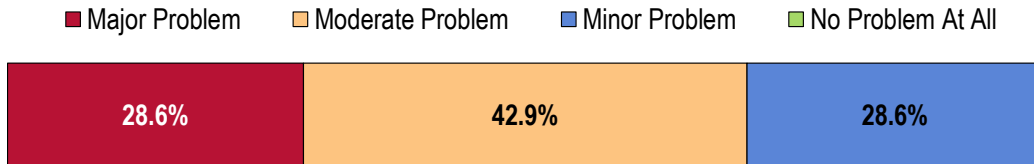


Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 22]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

### Key Informant Input: Oral Health

Key informants taking part in an online survey more often characterized *Oral Health* as a “moderate problem” in the community.

### Perceptions of Oral Health as a Problem in the Community (Key Informants, 2015)



Sources: • 2015 PRC Online Key Informant Survey.

### Top Concerns

Among those rating this issue as a “major problem,” reasons frequently related to the following:

#### Access to Care

- Limited coverage under Medicaid for adult dental concerns and very few providers. For those with high deductibles, lack of access/care for adults/children. – Public Health Expert
- Lack of access for those with limited financial means and/or those without insurance. – Social Service Representative

## Vision Care

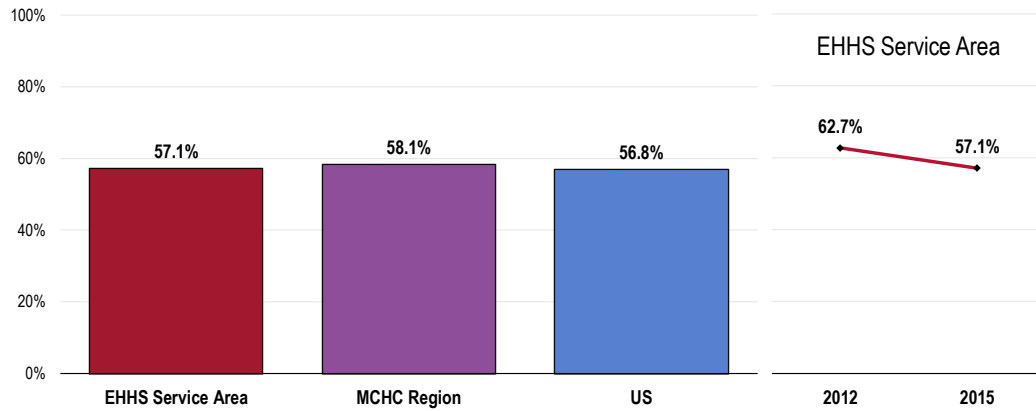
A total of 57.1% of residents had an eye exam in the past two years during which their pupils were dilated.

RELATED ISSUE:

See also [Vision & Hearing in the Death, Disease & Chronic Conditions](#) section of this report.

- Similar to the regional results.
- Similar to national findings.
- TREND: The decrease since 2012 is not statistically significant.

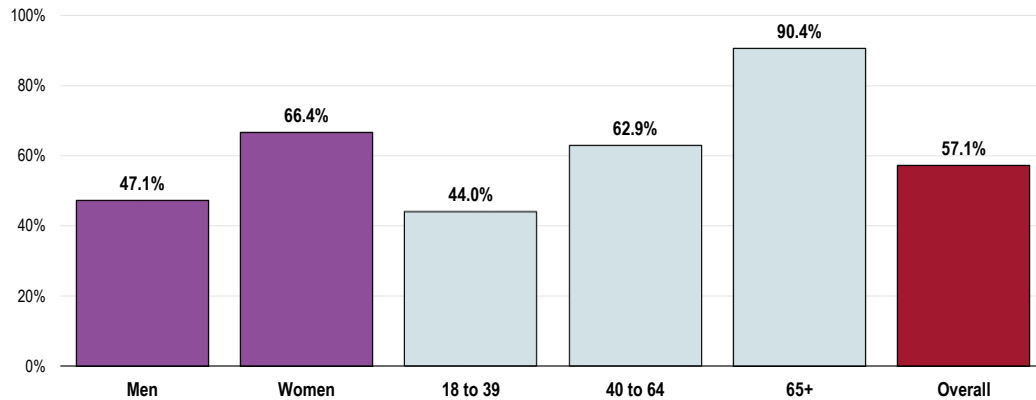
### Had an Eye Exam in the Past Two Years During Which the Pupils Were Dilated



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 20]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

- Recent vision care in the area is less often reported among men and younger residents.

### Had an Eye Exam in the Past Two Years During Which the Pupils Were Dilated (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 20]  
 Notes: • Asked of all respondents.

# Health Education & Outreach



**Professional Research Consultants, Inc.**

## Healthcare Information Sources

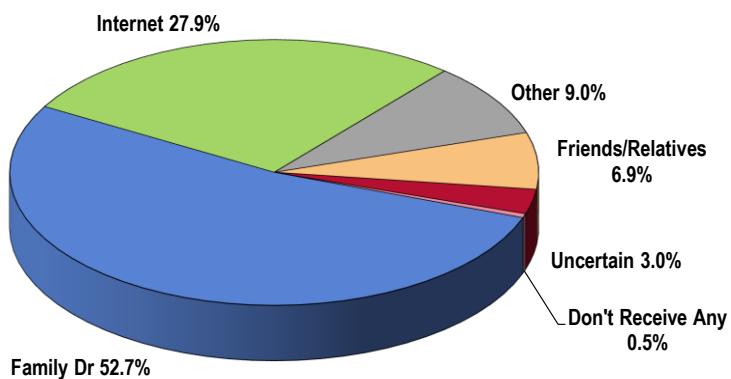
Family physicians and the Internet are residents' primary sources of healthcare information.

- 52.7% of Edward Hospital Service Area adults cited their **family physician** as their primary source of healthcare information.
- The **Internet** received the second-highest response, with 27.9%.

Other sources mentioned include friends and relatives (6.9%).

- Just 0.5% of survey respondents say that they do not receive any healthcare information.

**Primary Source of Healthcare Information**  
(EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 310]  
Notes: • Asked of all respondents.



## Participation in Health Promotion Events

### About Educational & Community-Based Programs

Educational and community-based programs play a key role in preventing disease and injury, improving health, and enhancing quality of life.

Health status and related-health behaviors are determined by influences at multiple levels: personal, organizational/institutional, environmental, and policy. Because significant and dynamic interrelationships exist among these different levels of health determinants, educational and community-based programs are most likely to succeed in improving health and wellness when they address influences at all levels and in a variety of environments/settings.

Education and community-based programs and strategies are designed to reach people outside of traditional healthcare settings. These settings may include schools, worksites, healthcare facilities, and/or communities.

Using nontraditional settings can help encourage informal information sharing within communities through peer social interaction. Reaching out to people in different settings also allows for greater tailoring of health information and education.

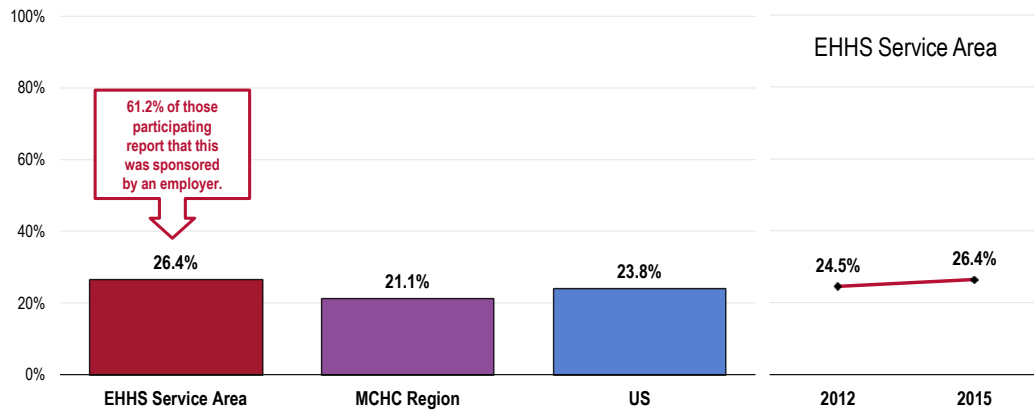
Educational and community-based programs encourage and enhance health and wellness by educating communities on topics such as: chronic diseases; injury and violence prevention; mental illness/behavioral health; unintended pregnancy; oral health; tobacco use; substance abuse; nutrition; and obesity prevention.

- Healthy People 2020 ([www.healthypeople.gov](http://www.healthypeople.gov))

**A total of 26.4% of Edward Hospital Service Area adults participated in some type of organized health promotion activity in the past year, such as health fairs, health screenings, or seminars.**

- Better than the regional results.
- Similar to the national prevalence.
- TREND: Statistically unchanged over time.
- Note that 61.2% of adults who participated in a health promotion activity in the past year indicate that it was sponsored by their employer.

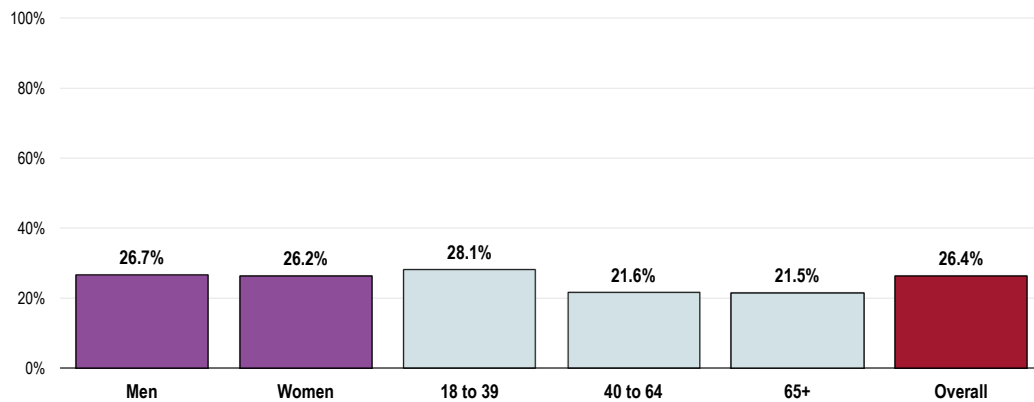
### Participated in a Health Promotion Activity in the Past Year



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Items 311-312]  
 • 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
 Notes: • Asked of all respondents.

Participation in a health promotion activity in the past year does not differ significantly by demographic characteristics.

### Participated in a Health Promotion Activity in the Past Year (EHHS Service Area, 2015)



Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 311]  
 Notes: • Asked of all respondents.

# Local Resources



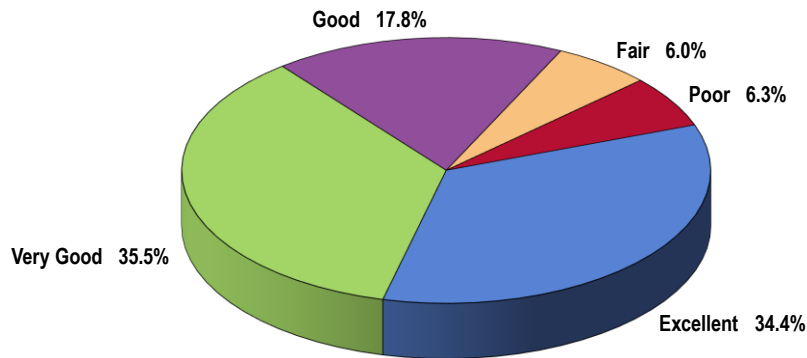
**Professional Research Consultants, Inc.**

## Perceptions of Local Healthcare Services

A total of 7 in 10 Edward Hospital Service Area adults (69.9%) rate the overall healthcare services available in their community as “excellent” or “very good.”

- Another 17.8% gave “good” ratings.

**Rating of Overall Healthcare Services Available in the Community**  
(EHHS Service Area, 2015)

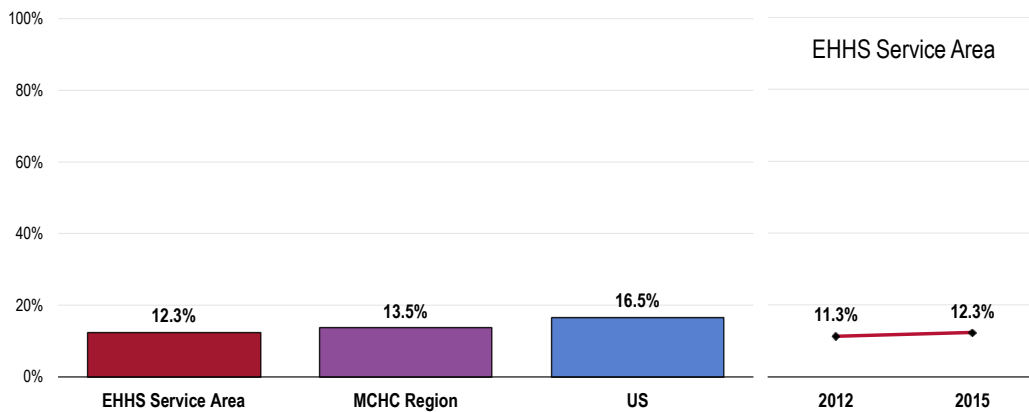


Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 6]  
Notes: • Asked of all respondents.

However, 12.3% of residents characterize local healthcare services as “fair” or “poor.”

- Similar to the regional results.
- More favorable than reported nationally.
- TREND: Statistically unchanged over time.

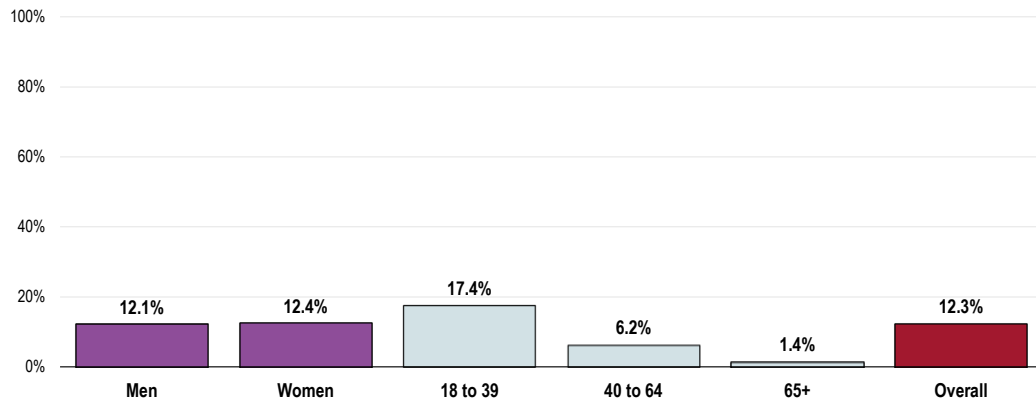
### Perceive Local Healthcare Services as “Fair/Poor”



Sources: • PRC Community Health Surveys, Professional Research Consultants, Inc. [Item 6]  
• 2013 PRC National Health Survey, Professional Research Consultants, Inc.  
Notes: • Asked of all respondents.

- Younger residents are more critical of local healthcare services (negative correlation with age).

**Perceive Local Healthcare Services as “Fair/Poor”**  
(EHHS Service Area, 2015)



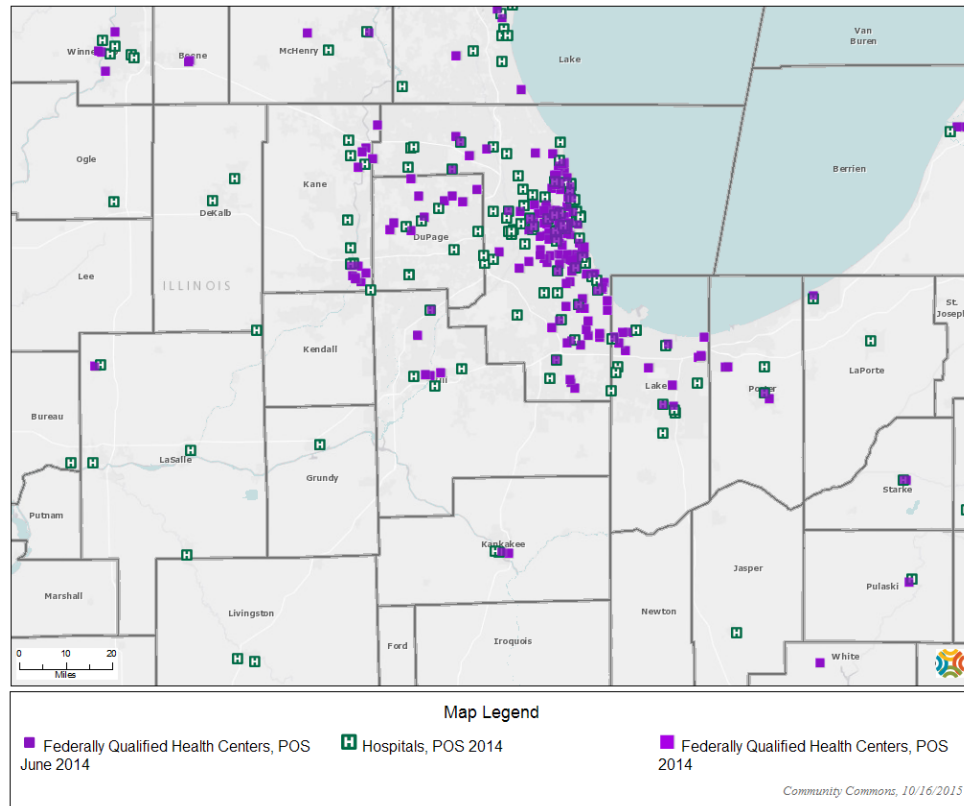
Sources: • 2015 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 6]  
Notes: • Asked of all respondents.

## Healthcare Resources & Facilities

### Hospitals & Federally Qualified Health Centers (FQHCs)

The following map provides an illustration of hospitals and Federally Qualified Health Centers (FQHCs) within the Edward Hospital Service Area as of June 2014.

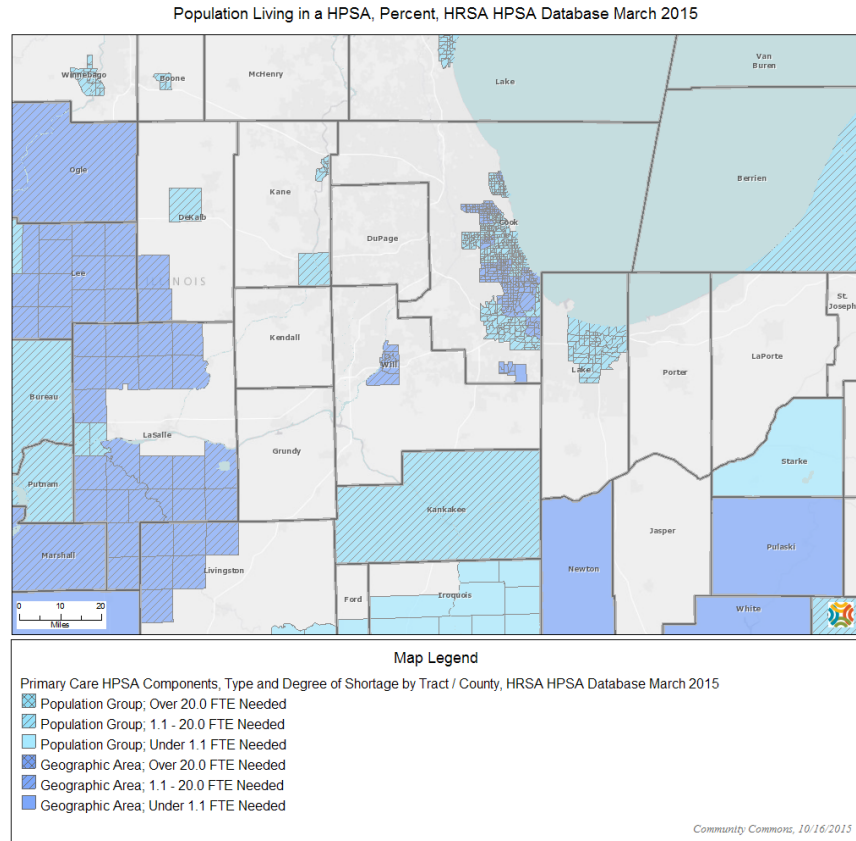
Hospitals and Federally Qualified Health Centers, POS June 2014



## Health Professional Shortage Areas (HPSAs)

Note the areas in the following map designated by the US Department of Health and Human Services as a health professional shortage area (HPSA).

A "health professional shortage area" (HPSA) is defined as having a shortage of primary medical care, dental or mental health professionals.



## Resources Available to Address the Significant Health Needs

The following represent potential measures and resources (such as programs, organizations, and facilities in the community) available to address the significant health needs identified in this report. This list is not exhaustive, but rather outlines those resources identified in the course of conducting this Community Health Needs Assessment.

### Access to Healthcare Services

- Access Community Health Network*
- DuPage County Health Department*
- DuPage Health Coalition – Access DuPage*
- Engage DuPage*
- Federally Qualified Health Centers*
- Health Department*
- Safety Net Mental Health Services*

### Cancer

- CDH Cancer Center*
- DCHD Breast and Cervical Cancer Programs*
- Edward-Elmhurst Healthcare*
- Northwestern Medicine Delnor Hospital*
- Rush University Medical Center*
- University of Chicago Medical Center*

### Dementias, Including Alzheimer's Disease

- Alden Courts of Waterford*
- Metropolitan Family Services*
- Nursing Homes*
- Senior Services through DuPage County*
- Silverado Naperville*
- Spring Meadows Naperville*
- Sunrise of Naperville*

### Diabetes

- Addison Park District Centennial Fitness Center*
- Alexian Brothers Hospital*
- Diabetes Educators*
- DuPage County Health Department*
- DuPage PADS*
- Edward-Elmhurst Hospital*
- Elmhurst Memorial Hospital*
- FQHCs*
- Hospital Based Classes*
- Loyola Center for Health*
- Primary Care Providers*
- Rush University Medical Center*
- University of Chicago Medical Center*



**Family Planning**

Anchor Health Services  
 Family Planning Curriculums Taught in Churches  
 FQHCs  
 General Practitioners  
 Planned Parenthood  
 Primary Care Providers  
 Regional Office of Education  
 Teen Parent Connection

**Heart Disease & Stroke**

Edward-Elmhurst Hospital  
 Hospitals  
 Loyola Center for Health  
 Physicians  
 Rush Medical Center  
 Specialists  
 University of Chicago Medical Center

**Immunization & Infectious Diseases**

Area FQHCs  
 Health Department  
 In-store Clinics  
 Pharmacists  
 Primary Care Physicians

**Injury & Violence**

Domestic Violence Protocol from State Attorneys  
 DuPage County Psychological Services  
 Family Shelter Service  
 Hospitals  
 Police Department  
 Signage on Highways about Texting and Driving

**Mental Health**

360 Youth Services  
 Adventist Institute for Behavioral Medicine  
 Alexian Brothers Behavioral Health Hospital  
 DuPage County Health Department  
 DuPage County Behavioral Health Treatment  
 Edward Hospital  
 Edward-Elmhurst Hospital  
 Engage DuPage Program that Facilitates Linkage  
 Hospitals  
 Linden Oaks  
 Mental Health First Aid  
 Metropolitan Family Health  
 NAMI

*Primary Care Physicians*  
*Rosecrance*  
*Safety Net Non-Profit Providers*  
*Samaritan Interfaith*  
*School Nurses, Deans and Social Workers*  
*Social Work Officers in Police Departments*

### **Nutrition, Physical Activity & Weight**

*Addison Park District*  
*Centennial Park Indoor Fitness Facility*  
*Center for Health and DuPage County Health Department*  
*Chicago Park District*  
*Community Hunger Network and People's Research Center*  
*Edward-Elmhurst Hospital*  
*Efforts to Strengthen Prairie Path*  
*FORWARD Coalition*  
*Library with Programs*  
*LifeTime Fitness*  
*Local Farmers Markets*  
*Municipal Strategies to Develop Support Health*  
*Parks with Walking Paths*  
*Schools*  
*Weight Watchers*  
*YMCA*

### **Oral Health**

*DuPage County Health Department Clinic*  
*DuPage Dental Care Connections*  
*Free Dental Clinic*  
*Midwest University Dental Clinic*  
*Ready, Set Smile Program*  
*Smile Squad*

### **Sexually Transmitted Diseases**

*Planned Parenthood, Oak Park*  
*Primary Care Physicians*  
*Robert Crown Center, Hinsdale*  
*Schools*

### **Substance Abuse**

*Alcoholics Anonymous*  
*Alexian Brothers*  
*Behavioral Health Treatment Collaborative*  
*Edward-Elmhurst Hospital, Elmhurst*  
*Health Department*  
*Hospitals*  
*Linden Oaks*  
*Nonprofit Safety Net Resources*  
*Police Department*

*Project Connect*  
*Rosecrance*  
*School Advisors*  
*Serenity House*

***Tobacco Use***

*American Lung Association*  
*Edward-Elmhurst Hospital, Elmhurst*  
*Edward-Elmhurst Hospital, Naperville*