Illinois Disability and Health Data Report

Demographic and Health Profile of Illinoisans With Disabilities 2009

December 2010
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To learn more about the Illinois Disability and Health Program, or to receive the report in accessible formats, contact the Illinois Department of Public Health, Disability and Health Program, at 217-557-2939, TTY 800-547-0466.
About This Report

Purpose of the Report

The Illinois Disability and Health Data Report provides empirical data on demography, health, and health service access of people with disabilities in Illinois. The report is intended to facilitate dialogue among key stakeholders in the state of Illinois who are interested in promoting the health and wellness of citizens with disabilities. Understanding of the demography, the current health status, and health service utilization of people with disabilities is a critical initial step toward planning effective and targeted health promotion and chronic disease prevention.

Contents of the Report

Following the previous year’s data report, this year’s report continues to provide demographic profiles of Illinoisans with disability broken down by age, sex, race and ethnic origin, and geography. Prevalence data of selected chronic diseases and their risk factors are included in the second and the third sections of the report. The fourth and the fifth sections of the report show data pertaining to health-related quality of life and access to health care for Illinoisans with disability.

Data Source

The data used for this report were extracted from the 2009 Illinois Behavioral Risk Factor Surveillance System (ILBRFSS). The ILBRFSS, conducted annually by the Department, is a random telephone survey of community households in the state designed to monitor health-related behaviors associated with chronic diseases and mortality among Illinois adults. Data were collected through telephone interviews from randomly selected adults, ages 18 years and older, at each sampled household.
Disability Screening

The ILBRFSS questionnaire includes a pair of disability screening questions. One question inquired whether a respondent had an activity limitation due to physical, mental and/or emotional problems. Another asked if he or she used a mobility-device (e.g., cane, wheelchair) and/or other assistive devices (e.g., special bed or telephone). Survey participants who responded positively to either or both questions were labeled as “adults with disability.” The respondents who responded negatively to both questions were tallied as “adults without a disability” and served as representatives of the Illinois adult population without a disability.

Data Analysis

Data analyses were conducted using a statistical weight to produce state-level estimates. The statistical weight was primarily based on the probability of each respondent being selected in the survey on the basis of gender, age, race, and ethnic origin. The 95 percent confidence intervals (CI) were used to test statistical difference between the weighted estimates. In this report, expressions of “higher” and “lower” indicate a statistically significant difference between groups. Expressions such as “similar” or “no difference” indicate that the group difference was not statistically significant. The estimates for the two groups with and without disability also were compared to the Healthy People 2010 target objectives when available.
Section I: Prevalence of Disability in Illinois
Disability Among Illinois Adults

More than one in every six adults in Illinois has disability. Figure 1 below graphically shows the proportion of Illinois adults who have disability. According to the 2009 Illinois Behavioral Factor Surveillance System (ILBRFSS) data, 17.8 percent of Illinois adults were estimated to have a disability (95 percent CI: 16.5 percent – 19.1 percent) in 2009.

Figure 1. Disability Prevalence Among Illinois Adults

Source: 2009 ILBRFSS
Disability by Age

Older Illinoisans are more likely to have disability than their younger counterparts. Figure 2 below visually demonstrates how the prevalence of disability in Illinois varies across three age groups. Each of the three bars in the figure represents Illinois adults in three different age groups: from the top, ages 18 to 39, 40 to 64, and 65 or older. In Illinois, the prevalence of disability increases across the age groups from 9.8 percent (95 percent CI: 7.9 percent - 12.1 percent) among young adults ages 18 to 39, to 18.8 percent (95 percent CI: 17.1 percent – 20.7 percent) among middle age adults ages 40 to 64, and to 34.1 percent (95 percent CI: 31.4 percent – 36.8 percent) among those ages 65 and older.

Figure 2. Disability Prevalence Among Illinois Adults by Age

Source: 2009 ILBRFSS
Disability by Gender

Illinois men and women reported similar disability prevalence. Figure 3 below describes prevalence of disability among Illinois adults by gender. The two horizontal bars represent men and women, respectively. Although a higher percentage of women reported having disability than men: 19.5 percent (95 percent CI: 17.9 percent – 21.2 percent) vs. 16.0 percent (95 percent CI: 14.2 percent – 18.0 percent), the difference between the two groups does not reach statistical significance.

Figure 3. Disability Prevalence Among Illinois Adults by Gender

Source: 2009 ILBRFSS
Disability by Race

Figure 4 graphically shows disability prevalence across three race groups. From the top, each of the three bars in the figure represents white Americans, black or African Americans, and other race groups which include American Indians, Alaska Natives, Native Hawaiians, other Pacific Islanders and others. The prevalence of disability for each race group was 17.5 percent (95 percent CI: 16.3 percent – 18.8 percent), 23.7 percent (95 percent CI: 19.1 percent – 29.0 percent), and 11.1 percent (95 percent CI: 7.8 percent – 15.5 percent), respectively. The prevalence reported by other race group was significantly lower than that for white and black race groups. The prevalence discrepancies between white and black race groups does not reach statistical significance.

Figure 4. Disability Prevalence Among Illinois Adults by Race

Source: 2009 ILBRFSS
Disability by Hispanic Origin

Illinois adults of Hispanic origin reported a lower prevalence of disability than those of non-Hispanic origin. Figure 5 contrasts disability prevalence by Hispanic origin. Each of the two bars in the figure represents Illinois adults who are of non-Hispanic origin, top bar, and Hispanic origin, bottom bar. Illinois adults who are of Hispanic origin reported a substantially lower prevalence when compared to their non-Hispanic counterparts: 14.1 percent (95 percent CI: 10.2 percent – 19.1 percent) vs. 18.2 percent (95 percent CI: 17.0 percent – 19.6 percent), respectively. The difference between the two groups, however, does not reach statistical significance.

Figure 5. Disability Prevalence Among Illinois Adults by Hispanic Origin

Source: 2009 ILBRFSS
Disability by Geographic Area

Figure 6 summarizes the prevalence of disability across the three areas of the state: Chicago metropolitan area (i.e., city of Chicago, counties of Cook, Lake, McHenry, Kane, DuPage and Will), other urban areas (i.e., counties of Champaign, DeKalb, Kankakee, Kendall, Macon, Madison, Peoria, Rock Island, Sangamon, St. Clair, Tazewell, McLean and Winnebago), and the rural areas (i.e., remaining 83 rural counties). There is no statistical difference in the prevalence of disability between Chicago metropolitan area, 16.4 percent (95 percent CI: 14.8 percent – 18.1 percent) and the other urban areas, 19.0 percent (95 percent CI: 16.6 percent – 21.6 percent). The prevalence for rural areas, 20.7 percent (95 percent CI: 18.3 percent – 23.4 percent) is significantly higher than that for Chicago metropolitan area.

Figure 6. Disability Prevalence Among Illinois Adults by Geographic Area

Source: 2009 ILBRFSS
Section II: Chronic Disease Prevalence Among Persons With Disability in Illinois
Arthritis prevalence is higher among Illinoisans with disability than those without disability. Figure 7 below shows the prevalence of arthritis across the two groups with and without disability. In Figure 7, the bar on the top shows that 59.0 percent (95 percent CI: 55.1 percent – 62.9 percent) of adults with disability have ever been told by a doctor or other health professional that they have arthritis, rheumatoid arthritis, gout, lupus or fibromyalgia. The rate for adults without disability, represented in the bottom bar, is 19.2 percent (95 percent CI: 17.8 percent – 20.6 percent).

Figure 7. Prevalence of Arthritis by Disability Status

Source: 2009 ILBRFSS
Asthma

Illinoisans with disability are more likely to have asthma than their counterparts without disability. Shown in Figure 8 is the prevalence of doctor-diagnosed asthma between Illinois adults with and without disability. Prevalence of asthma among adults with disability, represented in the top bar of the figure, is 20.0 percent (95 percent CI: 17.1 percent – 23.1 percent). The prevalence rate for adults with disability is higher than that of adults without disability, which is 11.9 percent (95 percent CI: 10.5 percent – 13.4 percent).

Figure 8. Prevalence of Asthma by Disability Status

Source: 2009 ILBRFSS
Diabetes

Prevalence of diabetes is higher among Illinoisans with disability than those without disability. Figure 9 summarizes the prevalence of diabetes between adults with disability, represented in the top bar of the figure, and adults without disability, represented in the bottom bar. The top bar shows that 17.5 percent (95 percent CI: 15.0 percent – 20.3 percent) of adults with disability have ever been told by a doctor that they have diabetes. The bottom bar shows that 6.1 percent (95 percent CI: 5.3 percent – 7.0 percent) of adults without disability have ever been told that they have diabetes.

Figure 9. Prevalence of Diabetes by Disability Status

Source: 2009 ILBRFSS
Cardiovascular Disease

Cardiovascular disease, which includes a wide variety of heart and blood vessel diseases, is much more prevalent among Illinoisans with disability than it is among those without disability. Figure 10 summarizes the prevalence of the three cardiovascular diseases by disability status. Shown in the first pair of bars in the figure is the prevalence of heart attack for adults with disability, 10.6 percent (95 percent CI: 8.8 percent – 12.7 percent), and for adults without disability, 2.2 percent (95 percent CI: 1.8 percent – 2.8 percent). Prevalence of angina, represented in the two bars in the middle, is 10.1 percent (95 percent CI: 8.4 percent – 12.1 percent) for adults with disability, and 2.2 percent (95 percent CI: 1.8 percent – 2.7 percent) for adults without disability. The two bars at the bottom of the figure show that 8.1 percent (95 percent CI: 6.5 percent – 10.1 percent) of adults with disability and 1.2 percent (95 percent CI: 0.9 percent – 1.5 percent) of adults without disability ever had a stroke.

Figure 10. Prevalence of Cardiovascular Disease by Disability Status

Source: 2009 ILBRFSS
Cancer

Illinoisans with disability are more likely to have cancer than their counterparts without disability. Shown in Figure 11 is the prevalence of Illinois adults who have doctor-diagnosed cancer by their disability status. Prevalence of cancer among adults with disability, represented in the top bar of the figure, is 15.0 percent (95 percent CI: 12.7 percent – 17.5 percent). The prevalence rate for adults with disability is higher than that of adults without disability, which is 6.6 percent (95 percent CI: 6.0 percent – 7.4 percent).

Figure 11. Prevalence of Doctor-diagnosed Cancer by Disability Status

Source: 2009 ILBRFSS
Section III: Risk Factors for Chronic Disease
Obesity

Illinois adults with disability are more likely to be obese (i.e., Body Mass Index equal to or greater than 30.0) than their counterparts without disability. Figure 12 summarizes the prevalence of obesity among Illinois adults by disability status. The bar on the top shows that 38.2 percent (95 percent CI: 34.7 percent – 41.9 percent) of adults with disability reported being obese compared to 24.4 percent (95 percent CI: 22.6 percent - 26.2 percent) of adults without disability, represented in the bottom bar. The national goal included in Healthy People 2010 is to reduce the rate to 15 percent by the year 2010 (i.e., Objective 19-2).

Figure 12. Obesity Prevalence Among Illinois Adults by Disability Status

Source: 2009 ILBRFSS
Exercise

Illinoisans with disability engage in exercise less frequently than Illinoisans without disability. Figure 13 compares the proportion of adults who engage in any physical activities or exercise such as running, calisthenics, golf, gardening, or walking for exercise, other than their regular job, in the past month by disability status. The bar on the top indicates that 58.1 percent (95 percent CI: 54.3 percent – 61.8 percent) of adults with disability participated in any physical activity or exercise in the past month. The rate is lower than the rate reported by adults without disability, 80.4 percent (95 percent CI: 78.7 percent – 81.9 percent), shown in the bottom bar.

Figure 13. Percent of Illinois Adults Who Participated in Any Physical Activity or Exercise in the Past Month by Disability Status

Source: 2009 ILBRFSS
**Fruits and Vegetables**

Only one in every five Illinoisans with disability eats five or more servings of fruits and vegetables each day. Figure 14 shows the rate of Illinoisans who eat five or more servings of fruits and/or vegetables per day. The bar on the top shows that 21.3 percent (95 percent CI: 18.4 percent – 24.5 percent) of adults with disability eat five or more servings of fruits and vegetables per day. The rate for adults without disability, 22.9 percent (95 percent CI: 21.2 percent – 24.6 percent), shown in the bottom bar, is similar to that for adults with disability. For adults, eating two cups of fruit and two and a half cups of vegetables per day is typically recommended, while the recommended intake for each individual may vary largely depending on his/her activity levels.

Figure 14. Percent of Illinois Adults Who Eat Five or More Fruits or Vegetables Per Day by Disability Status

Source: 2009 ILBRFSS
Smoking prevalence in Illinoisans with disability is similar to that for Illinoisans without disability. Figure 15 shows the proportion of Illinois adults who reported smoking cigarettes by disability status. Twenty-one percent (21.6 percent, 95 percent CI: 18.4 percent – 25.2 percent) of Illinois adults with disability, shown in the top bar, are currently smoking cigarettes compared to 18.2 percent (95 percent CI: 16.5 percent – 19.9 percent) of those without disability, shown in the bottom bar. These rates are significantly higher when compared to the Healthy People 2010 target of 12 percent (i.e., Objective 27-1a).

Figure 15. Percentage of Illinois Adult Cigarette Smokers by Disability Status

Source: 2009 ILBRFSS
**High Blood Pressure**

A higher rate of Illinoisans with disability reported having high blood pressure than their counterparts without disability. Figure 16 compares the rate of adults who were ever told by a doctor or other health professional that they have high blood pressure by disability status. The bar on the top shows that the rate is 52.3 percent (95 percent CI: 48.6 percent – 56.1 percent) for adults with disability. The rate for adults without disability, 24.2 percent (95 percent CI: 22.6 percent – 25.8 percent) shown in the bottom bar, is much lower. The national target objective in Healthy People 2010 (i.e., Objective 12-9) is to reduce the prevalence of a person having high blood pressure to 16 percent (shown by the maroon arrow in the figure) by the year 2010.

Figure 16. Percent of Illinois Adults Who Have Been Told They Have High Blood Pressure by Disability Status

Source: 2009 ILBRFSS
High Blood Cholesterol

High blood cholesterol is more prevalent among Illinoisans with disability than it is among their counterparts without disability. Of Illinois adults who ever checked blood cholesterol, Figure 17 compares the rate of adults who were ever told by a doctor or other health professional that they have high blood cholesterol by disability status. The bar on the top shows that the rate is 50.2 percent (95 percent CI: 46.2 percent – 54.1 percent) for adults with disability. The rate for adults without disability, 34.2 percent (95 percent CI: 32.3 percent – 36.2 percent) shown in the bottom bar, is much lower. The Healthy People 2010 target (i.e., Objective 12-14) is to reduce the prevalence of a person having high blood cholesterol to 17 percent (shown by the maroon arrow in the figure).

Figure 17. Percent of Illinois Adults Who Have Been Told They Have High Blood Cholesterol by Disability Status

Source: 2009 ILBRFSS
Section IV: Quality of Life Among Persons With Disability
**Satisfaction With Life**

Illinoisans with disability are less likely to be satisfied with their life than those without disability. Figure 18 below compares the proportion of adults who are “very satisfied with life” by disability status. Illinois adults with disability, represented in the top bar, reported that 28.1 percent (95 percent CI: 25.1 percent - 31.4 percent) were very satisfied with their life. The rate for those without disability, represented in the bottom bar, was 46.0 percent (95 percent CI: 43.9 percent – 48.1 percent); significantly higher than their counterparts.

Figure 18. Self-reported Satisfaction With Life Among Illinois Adults by Disability Status

Source: 2009 ILBRFSS
**Self-rated Health Status**

Illinoisans with disability rated their health status less favorably than their counterparts without disability. Figure 19 contrasts how Illinois adults with and without disability perceive their health status differently. The two bars at the top of the graph show that 5.0 percent (95 percent CI: 3.6 percent – 6.9 percent) of adults with disability rated their health as “excellent” and that 16.7 percent (95 percent CI: 14.0 percent – 19.8 percent) rated it as poor. For adults without disability, represented in the two bottom bars, the rate was 23.0 percent (95 percent CI: 21.4 percent – 24.8 percent) and 0.9 percent (95 percent CI: 0.6 percent - 1.2 percent), respectively. More than three times as many adults with disability reported their health as poor compared to those who reported excellent health. For those without disability, only a few rated their health as poor.

Figure 19. Self-rated Health Status Among Illinois Adults by Disability Status

Source: 2009 ILBRFSS
Healthy Days

Illinois adults with disability reported fewer healthy days in a month than those without disability. Figure 20 below shows the average number of healthy days reported by Illinois adults with and without disability. The average number of the healthy days reported by Illinois adults with disability was 14.2 days (95 percent CI: 13.2 percent – 15.1 days) per month, which is graphically shown by the top bar in the graph. Adults without disability, represented in the bottom bar, reported 25.7 (95 percent CI: 25.4 percent – 26.0 days) healthy days during the past 30 days.

Figure 20. Self-reported Number of Healthy Days During the Past 30 Days by Disability Status

Source: 2009 ILBRFSS
Section V: Access to Health Care and Screenings
Routine Checkup

Illinois adults with disability are more likely to have had a routine physical checkup within the past year than those without disability. Figure 21 below represents the proportion of Illinois adults who visited a doctor for a routine checkup, a general physical exam, within the past year by disability status. Represented in the top bar, 72.1 percent (95 percent CI: 68.2 percent – 75.6 percent) of Illinois adults with disability received the routine physical checkup within the past year. The rate was higher than that reported by Illinois adults without disability (62.6 percent, 95 percent CI: 60.5 percent – 64.7 percent), represented in the bottom bar.

Figure 21. Percent of Illinois Adults Who Had Routine Checkup Within Past Year

Source: 2009 ILBRFSS
Usual Primary Care Provider

Illinois adults with disability are more likely to have a usual primary care provider than those without disability. Figure 23 below represents the proportion of Illinois adults who think of one or more person(s) as their personal doctor or health care provider by disability status. Represented in the top bar, 89.9 percent (95 percent CI: 87.0 percent – 92.2 percent) of Illinois adults with disability reported having one or more person(s) whom they think of as their personal doctor or health care provider. The rate meets the Healthy People 2010 target of 90 percent (i.e., Objective 1-5). The rate for Illinois adults without disability, represented in the bottom bar, was 83.0 percent (95 percent CI: 81.1 percent – 84.7 percent).

Figure 22. Percent of Illinois Adults Who Have One or More Person(s) as a Personal Doctor or Health Care Provider

Source: 2009 ILBRFSS
Economic Barrier in Access to Health Care

For Illinoisans with disability, costs associated with health care appear to hinder their use of such services. Figure 23 compares the proportion of Illinois adults who avoided visiting a doctor due to cost by the presence of disability. The rate for Illinois adults with disability, 21.0 percent (95 percent CI: 17.6 percent – 25.0 percent) represented in the top bar, is higher compared to 12.0 percent (95 percent CI: 10.5 percent – 13.6 percent) for those without disability shown in the bottom bar.

Figure 23. Percent of Illinois Adults Who Avoided Doctor Visits Due to Cost by Disability Status

Source: 2009 ILBRFSS
Immunization

The proportion of Illinois seniors with disability who receive immunization against influenza is lower than the federally recommended level. Figure 24 below represents the proportion of Illinois adults with disability, age 65 years old and older, who have received vaccinations against influenza. The proportion of seniors with disability who received a flu shot during the past 12 months was 68.6 percent (95 percent CI: 63.8 percent – 73.0 percent). The rate did not differ significantly from that of seniors without disability (62.5 percent, 95 percent CI: 59.1 percent – 65.8 percent). The rate for both groups did not reach the Healthy People 2010 target of 90 percent (i.e., Objective 14-29a).

Figure 24. Percent of Illinois Adults With Disability, Age 65 and Older, Who Received Flu Shot

Source: 2009 ILBRFSS
Call to Action

Compared to the first Illinois Disability and Health Data Report (2001-2003), data indicate an increase in the number of Illinois adults with disabilities from 1.77 million in 2001 to 2.18 million in 2009, suggesting that people with disabilities will continue to comprise a major portion of the population base in Illinois. Since the passage of the Americans with Disabilities Act 20 years ago, great strides have been made to make communities and health care facilities more accessible for and inclusive of people with disabilities. Although the presence of disability does not always lead people to poor health or lack of it, there are still significant disparities between the health of people with and without disabilities as this report shows. Understanding the extent of disability and the life circumstances facing our citizens with disability are critical steps to planning effective health promotion and disease prevention strategies for this large, but understudied sub-population in the state. State and local policymakers need to prepare for a growing population that will require services to remain integrated in their communities. Reducing barriers and expanding access to various health services and health promotion programs in the community is a critical and urgent issue in supporting the independence of persons with disabilities.

People with disabilities can benefit from disease prevention and health promotion efforts as much as those without disability. Traditionally, community health services have not been developed with all of the many needs of people with disabilities in mind. Thus, people with disabilities who want to utilize these services often experience access barriers including inaccessible medical facilities and equipment, transportation barriers, communication barriers, and service delivery attitudes. Because people with disabilities are at an increased risk of developing additional health conditions, what clearly must be done is to develop and refine health promotion programs in state and local communities so that they are more inclusive for people with disabilities and to ensure that people with disabilities have equal access to health care services.
The purpose of this report is to provide a clearer understanding of the health status of people with disability in the state and their access to health services and programs. The Illinois Disability and Health Program, with funding from the U.S. Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, will continue its effort in monitoring the health of Illinoisans with disability, informing its findings to various stakeholders who are interested in promoting the health and wellness of citizens with disability, partnering with other agencies to educate health care professionals, and providing health promotion opportunities to people with disabilities. This can only be done with the collaboration and continued commitment to work together of the many stakeholders including public health agencies, private health care organizations, the disability community and disability service providers and advocates.

To learn more about the Disability and Health Data Report, the Illinois Disability and Health Program, how to become involved, or to receive the report in an alternate format, contact the Illinois Department of Public Health, Disability and Health Program at 217-557-2939, TTY 800-547-0466.