

BRFSS Brief

Number 1906

The Behavioral Risk Factor Surveillance System (BRFSS) is an annual statewide telephone survey of adults developed by the Centers for Disease Control and Prevention and administered by the New York State Department of Health. The BRFSS is designed to provide information on behaviors, risk factors, and utilization of preventive services related to the leading causes of chronic and infectious diseases, disability, injury, and death among the noninstitutionalized, civilian population aged 18 years and older.

Disability Status

New York State Adults, 2016

Introduction and Key Findings

In the United States, one in four adults have some type of disability.¹ Disability encompasses three dimensions: Impairment to body structure or mental functioning; activity limitation, such as difficulty hearing, moving, or problem solving; and participation restrictions in daily activities, such as working, engaging in social/recreational activities, or obtaining health care or preventive services.² Since the enactment of the Affordable Care Act, data collection and reporting systems such as the Behavioral Risk Factor Surveillance System (BRFSS), capture these dimensions through a series of six questions including: vision and hearing impairment, mobility and cognitive limitations, and difficulty with independent living or caring for oneself.³ In 2016, hearing impairment was added to BRFSS.

Adults living with a disability have a higher rate of chronic conditions such as obesity, heart disease, and diabetes. To reduce health disparities between people with and without disability, the New York State Department of Health works to improve inclusion and accessibility of health promotion programs; increase awareness of health-related disability policy initiatives; and improve sustainability of policy, system, and environmental changes that benefit the health of people with disability.

Key Findings

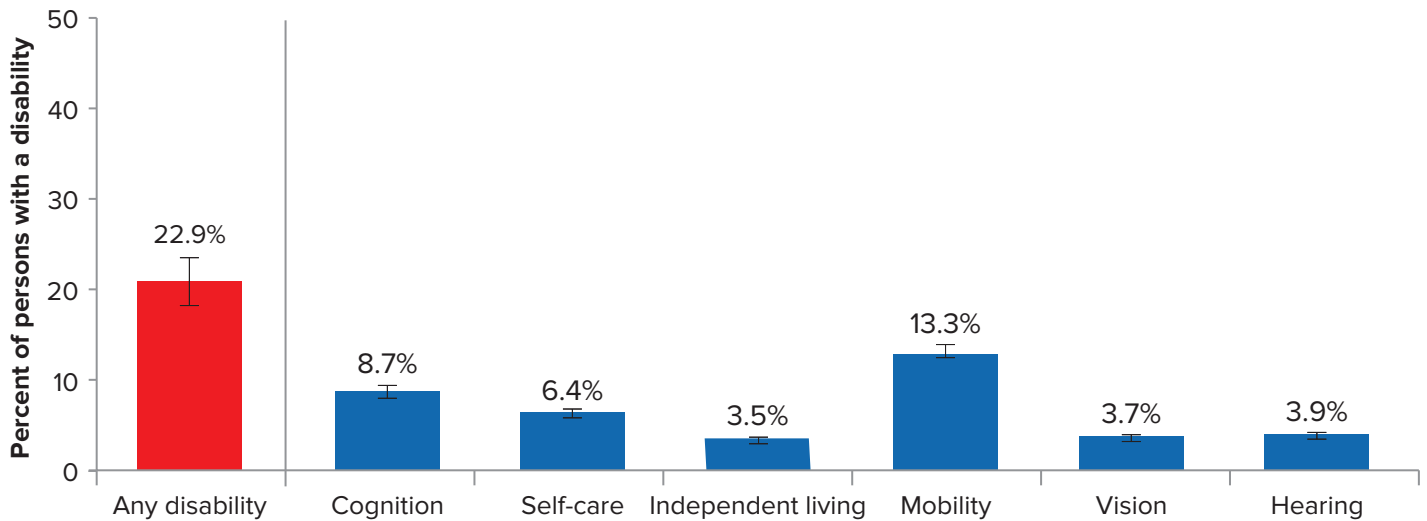
In New York State, approximately 3.3 million adults live with a disability (22.9%). Adults with a disability are more likely to be female, 65 years and older, and have an annual household income of less than \$15,000. Twenty-four percent of females compared to 21.0% of males have a disability. Adults 65 years and older are three times as likely to have a disability than adults age 18 to 44 (39.8 % versus 13.2%). Adults with a household income of less than \$15,000 are almost five times as likely to have a disability than adults with a household income of \$75,000 and over (47.6% versus 10.0%).

Disability is more prevalent among adults living with diabetes and cardiovascular disease and those at risk for chronic disease due to their smoking, diet, and physical activity status. Approximately one in three adults considered obese (33.9%) and one in three reporting no leisure-time physical activity (38.3%) have a disability. Thirty-two (32.3%) percent of adults who report having smoked at least 100 cigarettes in their lifetime and currently smoke have some type of disability. The analysis of selected chronic conditions shows that 48.2% of adults with diabetes and more than half (56.8%) of adults with cardiovascular disease report having some type of disability.

BRFSS questions

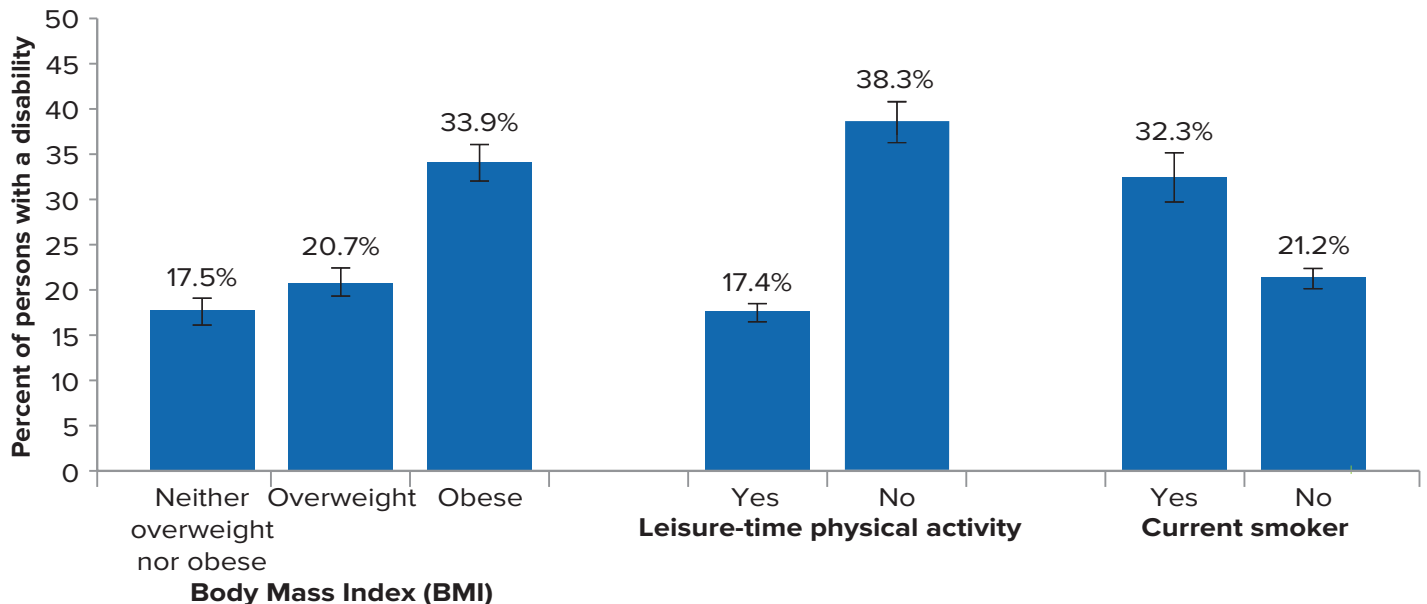
1. *Because of a physical, mental, or emotional condition, do you have serious difficulty concentrating, remembering, or making decisions?*
2. *Because of a physical, mental, or emotional condition, do you have difficulty doing errands alone such as visiting a doctor's office or shopping?*
3. *Do you have difficulty dressing or bathing?*
4. *Do you have serious difficulty walking or climbing stairs?*
5. *Are you blind or do you have serious difficulty seeing, even when wearing glasses?*
6. *Are you deaf or do you have serious difficulty hearing?*

Figure 1. Disability status and disability types* among New York State adults, BRFSS 2016



*Notes. **Any disability.** All respondents who report having at least one type of disability based on Department of Health and Human Services definition for data reporting (self-care, independent living, cognitive, mobility, vision, hearing); **Cognitive disability** is defined as answering “yes” to the question “Because of a physical, mental, or emotional condition, do you have serious difficulty concentrating, remembering, or making decisions?”; **Independent living disability** is defined as answering “yes” to the question “Because of a physical, mental, or emotional condition, do you have difficulty doing errands alone such as visiting a doctor’s office or shopping?”; **Self-care disability** is defined as answering “yes” to the question “Do you have difficulty dressing or bathing?”; **Mobility disability** is defined as answering “yes” to the question, “Do you have serious difficulty walking or climbing stairs?” **Vision disability** is defined as answering “yes” to the question, “Are you blind or do you have serious difficulty seeing, even when wearing glasses?”; **Hearing disability** is defined as answering “yes” to the question “Are you deaf or do you have serious difficulty hearing?”; Error bars represent 95% confidence intervals.

Figure 2. Weight, physical activity and smoking status for adults with disability, New York State Adults, BRFSS 2016



Notes. Current smoker: Respondents who reported having smoked at least 100 cigarettes in their lifetime and currently smoke; Physical activity: Any leisure-time physical activity during the past month; BMI category: Obesity is defined as a BMI of 30.0 or higher; Error bars represent 95% confidence intervals.

Disability^a Status, New York State Adults , 2016 BRFSS

| | Disability ^a | |
|---|-------------------------|---------------------|
| | % ^b | 95% CI ^c |
| Total New York State [N= 12,357] | 22.9 | 21.9 - 23.9 |
| Sex | | |
| Male | 21.0 | 19.6 - 22.3 |
| Female | 24.7 | 23.4 - 26.0 |
| Age (years) | | |
| Age 18-44 | 13.2 | 12.0 - 14.5 |
| Age 45-64 | 25.8 | 24.2 - 27.4 |
| Age 65+ | 39.8 | 37.6 - 42.0 |
| Race/ethnicity | | |
| White not Hispanic | 21.5 | 20.4 - 22.6 |
| Black not Hispanic | 26.3 | 23.2 - 29.3 |
| Hispanic | 27.7 | 25.1 - 30.2 |
| Other not Hispanic | 17.9 | 14.2 - 21.7 |
| Annual household income | | |
| <\$15,000 | 47.6 | 43.9 - 51.2 |
| \$15,000-\$24,999 | 34.0 | 31.2 - 36.8 |
| \$25,000-\$34,999 | 25.0 | 21.9 - 28.1 |
| \$35,000-\$49,999 | 23.0 | 20.2 - 25.9 |
| \$50,000-\$74,999 | 16.2 | 13.9 - 18.5 |
| \$75,000 and greater | 10.0 | 8.9 - 11.2 |
| Missing ^d | 27.0 | 24.1 - 30.0 |
| Region | | |
| New York State excluding NYC | 22.8 | 21.7 - 23.8 |
| NYC | 23.1 | 21.4 - 24.8 |
| Educational attainment | | |
| Did not graduate High School | 39.6 | 36.2 - 42.9 |
| Graduated High School | 28.4 | 26.4 - 30.4 |
| Attended College or Technical School | 21.4 | 19.7 - 23.1 |
| Graduated from College or Technical School | 12.0 | 11.0 - 13.1 |
| Health coverage^e | | |
| Private | 13.4 | 12.3 - 14.5 |
| Medicare | 42.9 | 40.4 - 45.5 |
| Medicaid | 31.4 | 28.4 - 34.4 |
| Other insurance | 30.5 | 25.5 - 35.5 |
| Not insured | 20.9 | 17.4 - 24.4 |
| Selected risk factors | | |
| Body Mass Index (BMI) category | | |
| Neither overweight nor obese | 17.5 | 16.1 - 18.9 |
| Overweight | 20.7 | 19.0 - 22.3 |
| Obese ^f | 33.9 | 31.8 - 35.9 |
| Leisure-time physical activity^g | | |
| Yes | 17.4 | 16.4 - 18.4 |
| No | 38.3 | 36.1 - 40.5 |
| Current smoker^h | | |
| Yes | 32.3 | 29.7 - 34.9 |
| No | 21.2 | 20.1 - 22.2 |
| Selected chronic conditions | | |
| Cardiovascular diseaseⁱ | | |
| Yes | 56.8 | 52.5 - 61.0 |
| No | 20.4 | 19.5 - 21.4 |
| Diabetes^j | | |
| Yes | 48.2 | 44.9 - 51.5 |
| No | 19.9 | 18.9 - 20.8 |

^a All respondents who report having at least one type of disability based on Department of Health and Human Services definition for data collection and reporting (self-care, independent living, cognitive, mobility, vision, hearing);

^b Weighted percentage;

^c CI = confidence interval;

^d "Missing" category included because more than 10% of the sample did not report income;

^e TRICARE (formerly CHAMPUS) VA or Military, Alaska Native, Indian Health Service, Tribal Health Services or some other source;

^f Obesity is defined as a BMI of 30.0 or higher;

^g Any leisure-time physical activity during the past month;

^h Respondents who reported having smoked at least 100 cigarettes in their lifetime and currently smoke;

ⁱ Respondent who reported having angina or coronary heart disease, or heart attack;

^j Includes physician diagnosed diabetes. Does not include reported gestational diabetes, prediabetes, or borderline diabetes

References

1. Centers for Disease Control and Prevention (CDC). Disability Impacts all of Us. Retrieved on September 28, 2018 from <https://www.cdc.gov/ncbddd/disabilityandhealth/infographic-disability-impacts-all.html>
2. Centers for Disease Control and Prevention (CDC). Disability Overview. Retrieved on September 28, 2018 from <https://www.cdc.gov/ncbddd/disabilityandhealth/disability.html>
3. U.S Department of Health and Human Services HHS Implementation Guidance On Data Collection Standards For Race, Ethnicity, Sex, Primary Language, And Disability Status. Retrieved on September 28, 2018 from <https://aspe.hhs.gov/basic-report/hhs-implementation-guidance-data-collection-standards-race-ethnicity-sex-primary-language-and-disability-status>

Program Contributions

New York State Department of Health
Bureau of Chronic Disease Evaluation and Research
Bureau of Community Chronic Disease Prevention

Order Information

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