Please cite appropriately.

 Fox, Michael H., & Phillips, K.G., (November, 2012). Understanding Health Disparities among People with Disabilities: Care Health Indicators. Session presented at Knowledge for Equity Conference. Silver Spring, MD.

Available online at: http://www.cdc.gov

7/24/2014

Understanding Health Disparities among People with Disabilities: Core Health Indicators

Michael H. Fox, Sc.D.

Division of Human Development and Disability
National Center for Birth Defects and Developmental Disabilities
Centers for Disease Control and Prevention

Kimberly G. Phillips, MA

University of New Hampshire Institute on Disability

Key Points

- Major health gaps exist between people with and without disabilities on leading indicators of health, illustrating poorer health among people with disabilities
- CDC-funded programs show promise of helping to reduce these gaps and improve the health of people with disabilities
- CDC looks to build upon these promising practices to further reduce health disparities and improve the overall health of people with disabilities

Division of Human Development and Disability Priorities

- Reduce disparities in key health indicators, including obesity, in children, youth and adults with disabilities.
- Identify and reduce <u>disparities in health care access</u> for persons with disabilities.
- Improve <u>developmental outcomes of all children</u>.
- Ensure that all <u>newborns are screened</u> and assessed for <u>hearing loss</u> and receive appropriate intervention according to established guidelines.
- Incorporate <u>disability status as a demographic variable</u> into all relevant CDC surveys.

What do we mean by key health indicators? The HP2020 Leading Health Indicators

Maternal, Infant & Child Health

Clinical Preventive Services Nutrition, Physical Activity & Obesity

Tobacco

Social Determinants

Access to Health Services Disability Inclusion

Substance Abuse

Environmental Quality

Injury & Violence

Mental Health

Reproductive & sexual health

What is the relationship between health indicators and health status?

Health Indicators Measure Health Status

Health indicators contribute to a person's current state of health, defined as a state of complete physical, mental, and social well-being and not just the absence of sickness or frailty. They may be biological, socioeconomic, psychosocial, behavioral, or social in nature.

Preamble to the Constitution of the World Health Organization as adopted by the International Health Conference, N.Y., 19-22 June, 1946; signed on 22 July 1946 by the representatives of 61 States (Official Records of the World Health Organization, no. 2, p. 100) and entered into force on 7 April 1948.

What are health disparities?

Health Disparities

- Health differences closely linked with social, economic, and/or environmental disadvantage
- Health disparities adversely affect groups of people who have systematically experienced greater obstacles to health based on their:
 - Racial or ethnic group; religion; socioeconomic status; gender; age; mental health; cognitive, sensory, or physical disability; sexual orientation or gender identity; geographic location; or other characteristics historically linked to discrimination or exclusion.

What Causes Health Disparities?

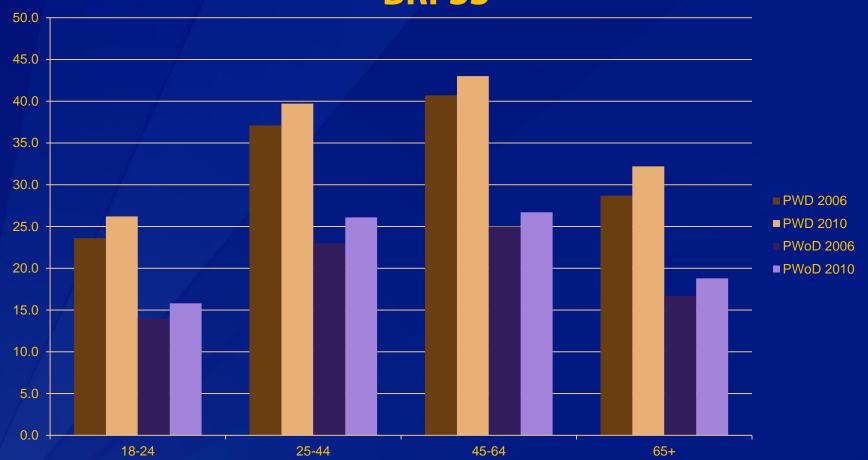
- Social, economic, and/or environmental disadvantage
 - Inadequate policies and standards
 - Inadequate funding
- Systematically experiencing greater obstacles to health
 - Problems with service delivery
 - Lack of accessibility
- Characteristics historically linked to discrimination or exclusion
 - Negative attitudes
 - Lack of consultation and involvement
 - Lack of data and evidence

Examples of Differences in Health Status ("Health Disparities") for People with Disabilities

Defining disability in the Behavioral Risk Factor Surveillance System (BRFSS) Survey

- Disability is defined as a "yes" response to either of the following survey questions:
 - Are you limited in any way in any activities because of physical, mental, or emotional problems?
 - Do you now have any health problem that requires you to use special equipment, such as a cane, a wheelchair, a special bed, or a special telephone?
- Only adults 18 and older participated in the survey

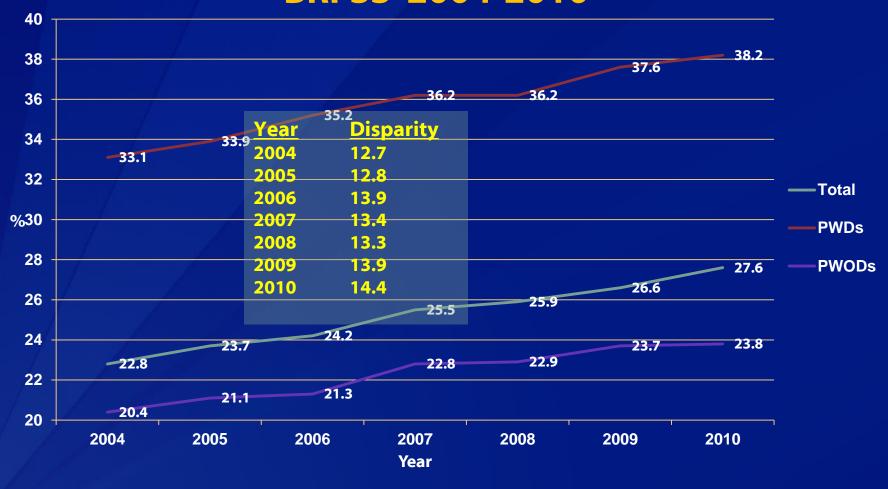
Changes in Obesity by Disability Status and Age 2006 & 2010 BRFSS



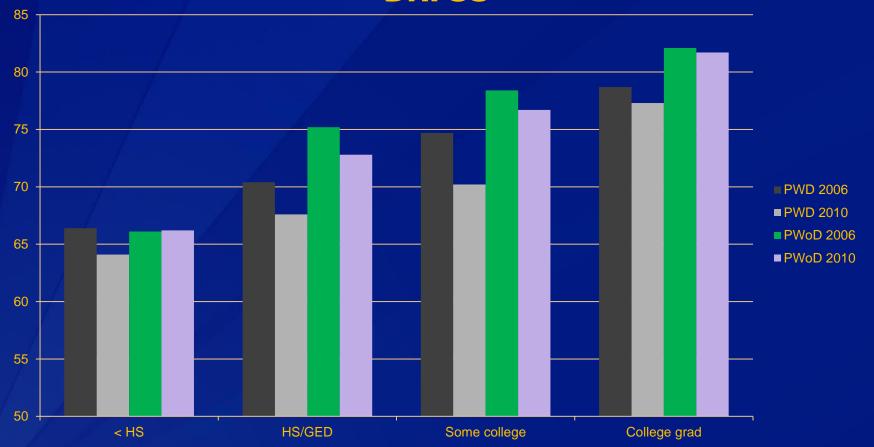
Body Mass Index (BMI) is calculated as weight in Kilograms/height² in Meters. For adults, BMI of 18.5-24.9 is considered "normal or healthy weight." BMI <u>></u>30 kg/m² is considered "obese."

How have disability obesity disparities changed over time?

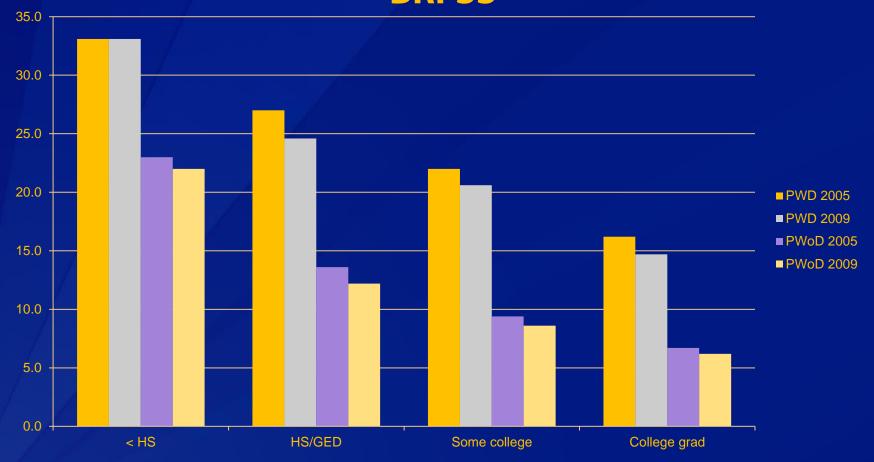
Adult Obesity Prevalence by Disability Status BRFSS 2004-2010



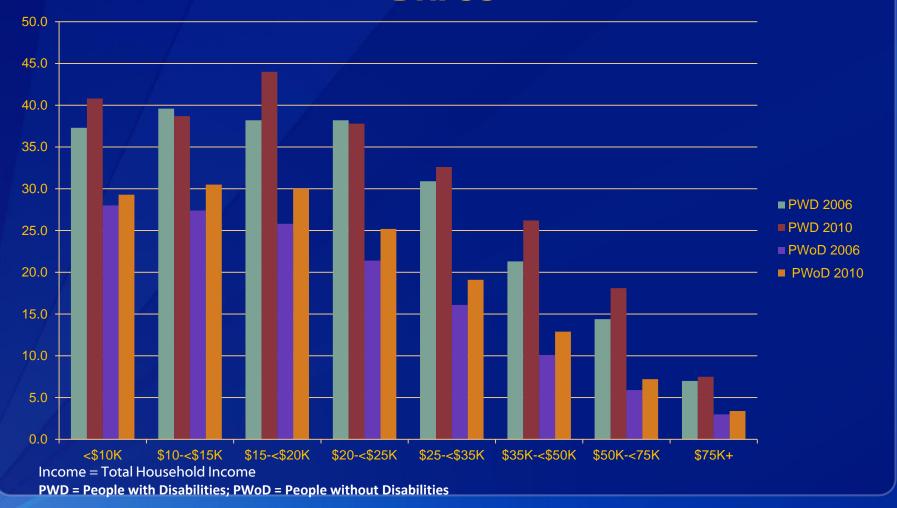
Changes in Mammography Rates for Women ≥ 40 By Disability Status and Education 2006 & 2010 BRFSS



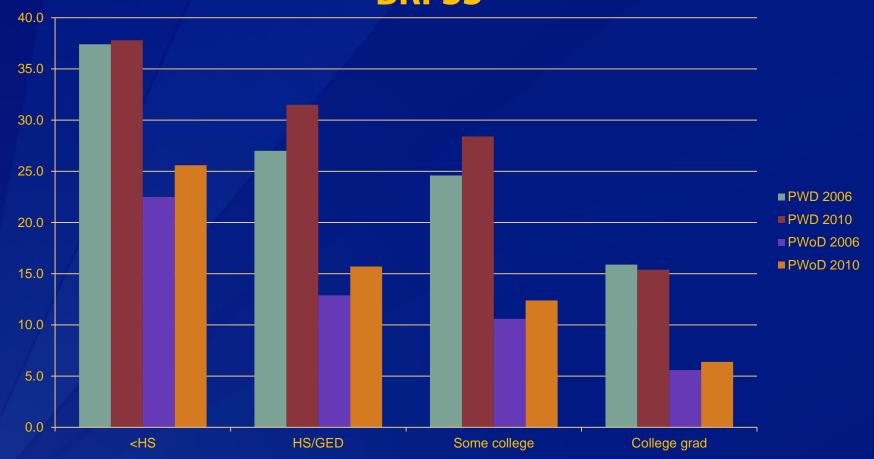
Changes in Physical Inactivity by Disability Status and Education 2005 & 2009 BRFSS



Changes in Cost as a Barrier to Seeking Health Care By Disability Status and Income 2006 & 2010 BRFSS

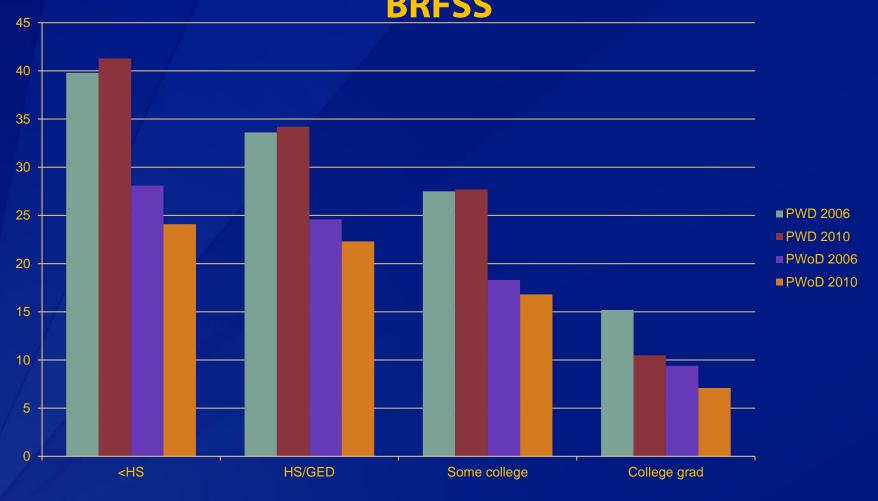


Changes in Cost as a Barrier to Seeking Health Care By Disability Status and Education 2006 & 2010 BRFSS

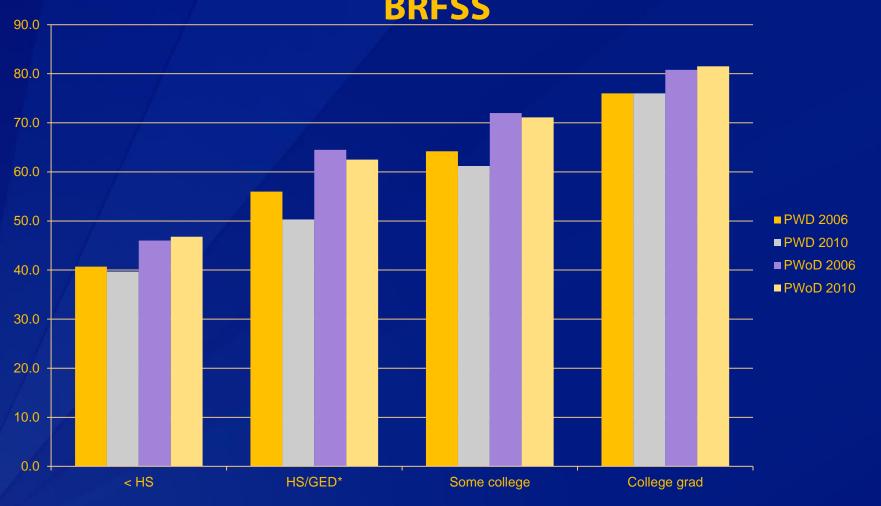


Income = Total Household Income

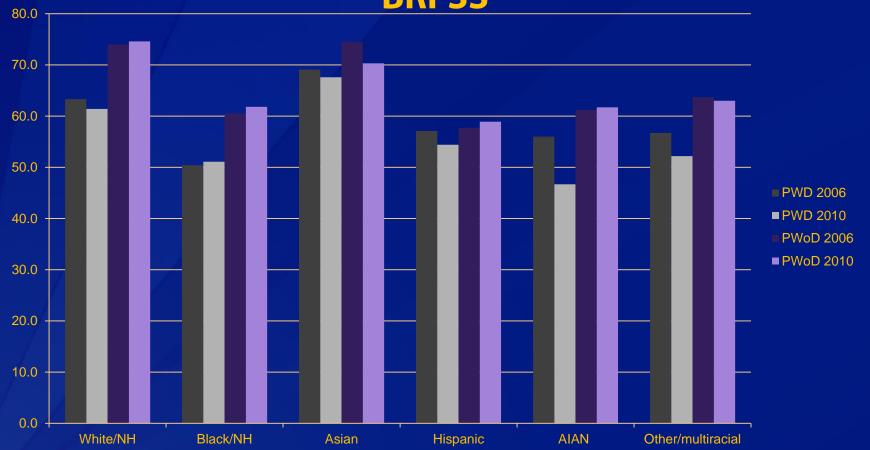




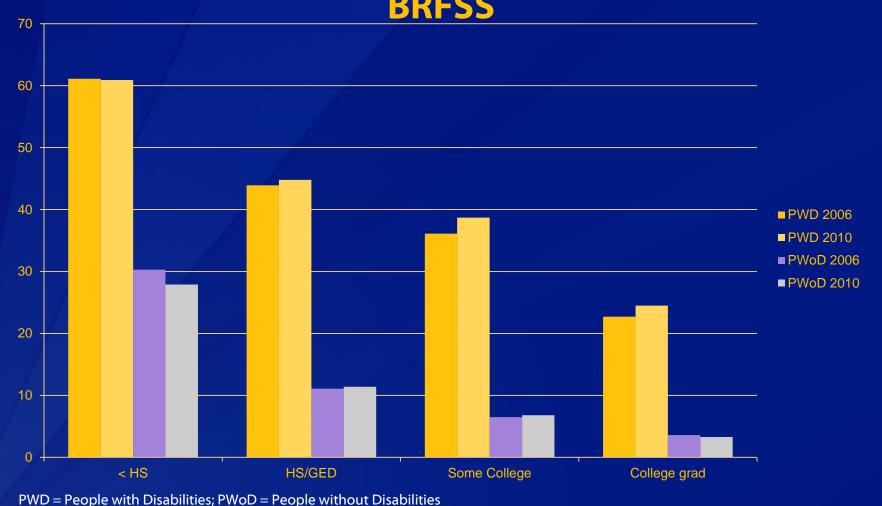
Changes in Adult Dental Visits By Disability Status and Education 2006 & 2010 BRFSS



Changes in Adult Dental Visits By Disability Status and Race/Ethnicity 2006 & 2010 BRFSS







Multivariate Analysis

Logic models with each health indicator* as the outcome controlling for the following variables:

Age Number of family members

Sex Race/Ethnicity

Education Employment

Income

Also included as independent variables:

Disability

Year

Interaction term: Disability*Year

* Obesity, mammography, physical inactivity, cost as a barrier to care, smoking, dental visits, fair/poor health

Multivariate Results

For both time periods:

PWD have higher odds than PWoD for the following:

Cost barrier to care

Smoking

Obesity

Self-rated fair/poor health

Physical Inactivity

PWD have lower odds than PWoD for the following:

Mammography (women 40 or older)

Dental visit in past year

All odds ratios are statistically significant

For both people with and without disabilities:

Higher odds in 2006 vs. 2010 for:

Mammography

Physical Inactivity (2005 vs. 2009)

Lower odds in 2006 vs. 2010 for:

Cost barrier to care

Obesity

Differences in odds ratios for time

Current smoking: No change for PWD, decrease for PWoD

	aOR	95% CI
2006 vs. 2010 (Disability)	1.05	0.99, 1.10
2006 vs. 2010 (No disability)	1.19	1.15, 1.23

Fair/poor health: No change for PWD, decrease for PWoD

	aOR	95% CI
2006 vs. 2010 (Disability)	0.98	0.93, 1.02
2006 vs. 2010 (No disability)	1.06	1.01, 1.11

Dental visit in past year: Decrease for PWD, no change for PWoD

	aOR	95% CI
2006 vs. 2010 (Disability)	1.08	1.03, 1.13
2006 vs. 2010 (No disability)	1.03	1.00, 1.06

For additional information

- Fact sheets showing estimates at a state level can be found:
 - CDC's Disability and Health website at: <u>http://www.cdc.gov/ncbddd/disabilityandhealth/health/healthstatus.html</u>
 - Or go to www.CDC.gov and search on "disability health status"



























Funded Disability and Health Programs

http://www.cdc.gov/ncbddd/disabilityandhealth/programs.html







Physical Activity-Alabama



- Scale Back Alabama (SBA) is a state wide weight-loss public awareness campaign
- Assess SBA sites for inclusiveness for people with disabilities
- Implement in three sites which employ or serve people with disabilities

Adaptive Physical Education (PE) Training-Alabama

- Provide state-wide training in adapted PE methodology to PE teachers.
- Conduct baseline and follow-up assessments of all students K-12.

Nutrition-Michigan



http://www.michigan.gov/mdch/0,4612,7-132-2940_2955_54051--,00.html

- Promote the use of NuVal, a nutritional evaluation system used by Meijer food stores.
- Train health educators to provide tools and techniques for using NuVal as a tool to assist in disease prevention and management among people with disabilities.

Mammography-Montana



http://everywomanmatters.ruralinstitute.umt.edu/EWM.html

- Right to Know & Every Woman Matters are public awareness campaigns to encourage women 40+ years with mobility impairments to have screening mammograms.
- Includes updating the Montana Mammography On-Line Directory which provides information on accessible mammography facilities in Montana.

Tobacco Cessation-Illinois



www.idph.state.il.us/idhp/

- Illinois Tobacco Quitline: Provides Tobacco Cessation materials for People with Disabilities
- Coordinating training for Helpline staff
- Revised Quitline materials specifically for People with Disabilities

Improve Access to Preventive Screenings-New Hampshire

http://www.iod.unh.edu/Projects/dph/project_description.aspx



- Implement Outpatient Health Care Usability Profile (OHCUP) and Mammogram Outpatient Health Care Usability Profile (MOHCUP) to identify barriers in primary and preventive care facilities.
- Partner with NH Department of Public Health Services "Let No Women be Overlooked Breast and Cervical Cancer Program" to assess mammography facilities.
- Provide technical assistance to facilities on how to make improvements

National Public Health Practice and Resource Centers

National Public Health Practice and Resource Centers (NPHPRC) are devoted to promoting health, preventing disease and improving the quality of life of individuals living with disabilities. Their primary mission is to provide information, education, and consultation on disease prevention, and promote health and wellness for people with specific conditions who live with associated disabilities. Their efforts are targeted to health care professionals, people with disabilities, caregivers, media, researchers, policymakers and the public.

Promising Practices: CDC Partnerships targeting healthy weight

http://www.cdc.gov/ncbddd/disabilityandhealth/partnerorganizations.html







American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN®







Paralysis Resource Center



For people with intellectual and developmental disabilities





Promising Practices: Increasing Exercise and Good Eating Habits among People with Disabilities



The National Center on Health, Physical Activity and Disability

http://www.nchpad.org/

NCPAD is a public health practice and resource center dedicated to providing improved nutrition, physical activity and health promotion for people with disabilities.

14 Weeks to a Healthier You

http://www.ncpad.org/14weeks/





Promising Practices: Increasing Obesity Awareness among People with Limb Loss

- Implications of Amputees Being Overweight
 - When weight increases, stresses are multiplied exponentially at joint surfaces.
 - Excess weight compounds the orthopedic and cardiovascular effects of an amputee.
 - The already overtaxed cardiovascular system of a person with leg amputation doesn't need the additional burdens associated with obesity





http://www.amputee-coalition.org/easyread/inmotion/mar_apr_08/amputees_overweight-ez.pdf

Promising Practices: Assessing Weight & Promoting Good Eating Habits among People with Intellectual Disabilities

- Building communities of sports, joy & social change...
 - Community participation through athlete leadership, unified sports, family empowerment, health programming, research, advocacy and volunteerism
 - http://www.specialolympics.org





BE A FAN OF ACCEPTANCE, DIGNITY, AND THE HUMAN RACE.

Promising Practices: Disseminating Information on Health through Public Health Practice and Resource Centers

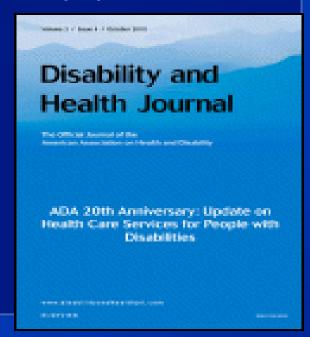


Paralysis Resource Center

- There is an epidemic of obesity in the U.S. People with disabilities are even more prone to carrying excess weight due to a combination of changed metabolism and decreased muscle mass, along with a generally lower activity level. There are compelling reasons to shed the extra pounds.
- Research shows that people in wheelchairs are at risk for shoulder pain, joint deterioration, even rotator cuff tears, due to the amount of stress they place on their arms. The more weight to push, the more stress on the shoulder. Plus there's the risk the skin faces: as people gain weight, skin folds develop which trap moisture, greatly increasing the risk of skin sores.



- Research pertaining to obesity and people with disabilities
- Publications, organizations and programs pertaining to obesity and people with disabilities



Moving Forward: Targeting a Reduction in Health Disparities







Michael Fox – <u>MHfox@cdc.gov</u> Elizabeth Courtney-Long – <u>ECourtneyLong@cdc.gov</u> Jacqui Butler – <u>zbn1@cdc.gov</u>

For more information please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333

Telephone: 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348

E-mail: cdcinfo@cdc.gov Web: http://www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

Changes in Fair/Poor Health By Disability Status and Gender 2006 & 2010 BRFSS

