

Rehabilitation Research and Training Center on Disability Demographics and Statistics

A Guide to Disability Statistics from the National Health Interview Survey

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Introduction

Policymakers, service providers, disability advocacy groups and researchers use disability statistics for a wide variety of purposes. A common problem that these groups encounter is finding a data source, a disability definition and/or a statistical method that provides them with a needed disability statistic.

The mission of the Cornell StatsRRTC is to bridge the divide between the sources of disability data and the users of disability statistics. One product of this effort is a set of *User Guides* to national survey data that collect information on the disability population. The purpose of each of the User Guides is to provide disability data users with:

- 1. An easily accessible guide to the disability information available in the nationally representative survey;
- 2. Estimates of the population with disabilities, the disability prevalence rate, estimates of employment and estimates of economic well-being;
- 3. A description of the unique features of the dataset that will help disability statistics users determine whether the dataset can provide them with the statistic that they need; and
- 4. A description of how the dataset compares to other national data that are used to describe the population with disabilities.

This User Guide contains information on the National Health Interview Survey (NHIS), a nationally representative survey providing data on the health of the civilian, non-institutionalized population of the United States. The NHIS has been administered since 1957, and is conducted by the National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC). The survey contains information on multiple aspects of health status, including activity limitations, injuries, health insurance, and access to and utilization of health care. The survey also provides information on household composition, socio-economic status, and family income and assets. While the NHIS asks a wide-ranging set of questions related to child health and disability, this User Guide will focus only on the health of working age adults. Lastly, this User Guide

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¹ NCHS has administered the survey since its formation in 1960.

² The current NHIS asks questions of all family members, including children, in the family core section of the survey. There is also a sample child section of the survey that

analyzes data from 2002 because this was the most recent data available when the project began; in the future, we hope to update it with data from more recent years.

The current questionnaire structure includes two general areas: a core section that remains unchanged across years, and various sets of supplemental questions that change annually. The core consists of three general sections: the family core section, which collects demographic and health information on every member of the household, the sample adult section, which randomly selects an adult and collects additional health-related information for that adult, and a sample child section, which collects additional health-related information for the randomly selected child. In 2002, the supplemental topics included alternative and complementary medicine, vision, hearing, asthma, arthritis, child mental health, disability and secondary conditions: assistive technologies and environmental barriers, environmental health: lead paint, and child and adult immunizations. In other years, the supplemental questions have covered a variety of topics.

There are several strengths of the NHIS relative to other national surveys. The NHIS contains a large amount of information on health-related data of all the major surveys, including particularly unique and extensive data on health insurance, health care access and utilization, health status, health-related conditions and health behaviors. The NHIS also contains a broad set of data on disability-related topics, including the limitation of functional activities, mental health questions used to measure psychological distress, limitations in sensory ability, and limitations in work ability. Moreover, the NHIS questionnaire asks those persons who indicated a limitation to a functional activity the source or condition of their functional limitation. Additional strengths of the NHIS include its continuous administration over the past five decades, which allows for the comparison of some health trends, and the specialized information contained in the supplemental survey section.

There are several disadvantages to the data contained in the NHIS. One significant drawback is the omission of several segments of the population, including the

asks health-related questions specific to children. This User Guide will focus only on adult data due to difficulty in comparing child and adult disability.

institutionalized population, the homeless population, nationals living abroad, and members of the armed forces (although families of active duty military members are included). The lack of data on institutionalized adults is particularly troubling in the disability arena, as there is likely to be a high prevalence of adults with disabilities in certain institutions, particularly long-term care facilities.³ One particular concern is that any trend in the extent to which people with disabilities live in institutions will affect trends in the prevalence of disability in the non-institutional population as well as the mean characteristics and socioeconomic status of those in that population. The NHIS shares this limitation with other major surveys, including the American Community Survey (ACS), the Current Population Survey (CPS) and the Survey of Income and Program Participation (SIPP), although the ACS is scheduled to begin surveying people living in institutions in 2006. Second, the NHIS has much less comprehensive sociodemographic information than some of the other major surveys, such as the CPS and SIPP. While the survey contains a section on income and assets, the NHIS has experienced a high rate of non-response for these types of questions. 4 Moreover, income data are only reported at the family level, making analysis of personal income impossible. Third, due to confidentiality concerns, design of the NHIS sample does not allow for state-level estimates.⁵ This is a significant drawback when analyzing the impact of areaspecific public programs, or analyzing state-level changes in health status of the population with disabilities.⁶

Conceptual Model of Disability

One purpose of the User Guides is to describe the information on disability available in the various national surveys. An operational definition of disability is

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³ The majority of the institutionalized population consists of nursing home patients and incarcerated prisoners.

⁴ See Appendix A for a complete discussion of imputed income data.

⁵ Recently, NCHS put the large Metropolitan Statistical Area (MSA) identifiers on the public use file and provided the same information for years back to 1997, but stopped this practice in 2003. Currently, estimates can be made for large MSAs from 1997 through 2002.

⁶ Special arrangements may be made with NCHS to have analysis conducted using small-area identifiers.

required to fulfill this purpose. Unlike age and gender, that are for the most part readily identifiable individual attributes, disability is usually defined as a complex interaction between a person's health condition and the social and physical environment. An environment that provides accommodation may allow a person with a health condition to function at the level of a person without a health condition. In this instance, the person may not consider her health condition a disability.

Two major conceptual models of disability are the World Health Organization's (WHO, 2001) International Classification of Functioning, Disability and Health (ICF) and the disability model developed by Saad Nagi (1965, 1976). Both of these conceptual models recognize disability as a dynamic process that involves the interaction of a person's health condition, personal characteristics, the physical environment and the social environment. Changes to any one of these factors over time can have an impact on a person's ability to function and participate in activities. Detailed descriptions of these models, as well as a comparison, can be found in Jette and Badley (2000) and Altman (2001).

In this User Guide, we adopt ICF concepts to create operational definitions of disability. The concepts used include *impairment*, *activity limitation*, *participation restriction*, and *disability* (see WHO, 2001). A prerequisite to each of these concepts is the presence of a health condition. Examples of health conditions are listed in the International Classification of Diseases, Tenth Edition (ICD-10) and they encompass diseases, injuries, health disorders, and other health related conditions. An *impairment* is defined as a <u>significant</u> deviation or loss in body function or structure. For example, the loss of a limb or vision loss may be classified as impairments. In some surveys, impairments are defined as long lasting health conditions that limit a person's ability to see or hear, limit a person's physical activity, or limit a person's mental capabilities. An *activity limitation* is defined as a difficulty an individual may have in executing activities. For example, a person who experiences difficulty dressing, bathing or performing other activities of daily living due to a health condition may be classified as having an activity limitation. In some surveys, activity limitations are identified based upon a standard set of activities of daily living questions (ADLs) and/or instrumental activities of daily living

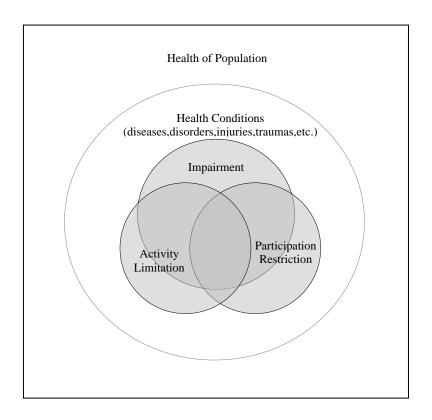
questions (IADLs). A *participation restriction* is defined as a problem that an individual may experience in involvement in life situations. For example, a working-age person with a severe health condition may have difficulty participating in employment as a result of the physical environment (e.g., lack of reasonable employer accommodations) and/or the social environment (e.g., discrimination). In some surveys, participation restrictions are identified by questions that ask whether the person has a long lasting health condition that limits his or her ability to work, or whether a health conditions affects his or her ability to go outside his or her home to go shopping, to church or to the doctor's office.

The final ICF concept that we use is a *disability*. The term disability is used to describe the presence of an impairment, an activity limitation and/or a participation restriction. This concept is similar to the definition used in the Americans with Disabilities Act of 1990 (ADA). The ADA defines a disability as "a physical or mental impairment that substantially limits one or more of the major life activities, a record of such an impairment, or being regarded as having such an impairment."

While these concepts may seem to follow a progression—that is, an impairment leading to an activity limitation leading to a participation restriction—it is not necessarily the case. It is possible that a person may have a participation restriction without an activity limitation or impairment. For example, a person diagnosed as HIV positive may not have an evident impairment or activity limitation but may not be able to find employment due to discrimination resulting from his health condition. Similarly, a person with a history of mental illness, but who no longer has a loss in capacity or activity limitation, may also be unable to finding employment due to discrimination resulting from his health condition.

Figure 1 provides a useful summary of the ICF concepts. It illustrates that while there is an overlap across these concepts, it is possible that one of them can occur without a relation to the others. The universe of the ICF is the health of the population as a whole. The shaded area of Figure 1 illustrates the ICF concept of a disability.

Figure 1. Simplified Conceptual Model of Disability Using ICF Concepts



Operational Issues.

Translating the ICF concepts into operational definitions in surveys is not a straightforward task. Decisions to classify the questions into one of the three specific ICF categories were made based upon judgments and are not based upon well-defined rules from the ICF. In some cases, the classification is straightforward. In other cases, for example, the survey questions may be interpreted as both an activity limitation and participation restriction. Our approach in these cases was to make clear and consistent judgments so that it may be possible to make comparisons across the datasets. Using this approach provides a framework for comparisons across surveys and for comparisons to ICF concepts.

The following section summarizes the development and purpose of the NHIS, outlines the data collection methodology, and provides a description of the various definitions used in this Guide.

NHIS Background, Methodology and Definitions

The survey methodology can have an important impact on the information that a survey collects on the population with disabilities. Mathiowitz (2000) provides a good review of the general methodological issues as well as those specific to the population with disabilities. The purpose of this section is to describe the development of the NHIS, the methods used by the NHIS to collect information on the population, and the precise definitions used to describe the population with disabilities.

Purpose of the NHIS.

The NHIS is the primary data source on the health of the civilian, non-institutionalized population of the United States. The survey was initiated by an Act of Congress in 1956 "to produce statistics on disease, injury, impairment, disability, and related topics on a uniform basis for the Nation." In general, the NHIS exists to monitor the health of the U.S. non-institutional population, and to display these characteristics by socio-economic and demographic characteristics. NHIS data are used within government agencies and the academic research community to monitor developments in the prevalence of illness, disability, and other health-related conditions. Researchers also rely on the NHIS to measure trends in the U.S. health care environment, including changes in health care access and utilization. The NHIS is also used to measure the efficacy of federal health programs; NCHS cooperates with other federal agencies to meet their needs for health data, such as the data needs of the National Health Objectives.

Development of NHIS.

The NHIS has been collected continuously since 1957, and is periodically modified to help the data better meet the needs of its users. In general, the structure and content of the "core" questionnaire is modified every 10 to 15 years, with the last major modification occurring in 1997. The sampling design of the NHIS is modified every 10

years; the current sample design lasts from 1995 to 2005 and will be changed for the 2006 survey.

There is little effective difference in the general structure of the redesigned 1997 survey and the previous survey design. From 1982 to 1996, the NHIS consisted of two parts. The first section, known as the "core," asked questions about health and demographic information. The second section consisted of a series of supplemental surveys that posed questions on current health topics. The "core" remained the same over this period, while the section on current health topics changed annually. In 1997, the redesigned NHIS intended to implement three general components: a basic module, a periodic module, and a topical module. The basic module is analogous to the "core" section of the 1982-1996 NHIS, while the topical module is analogous to the supplemental section of the earlier design. In NCHS documents, and this User Guide, the basic module is referred to as the "core" and the topical modules are referred to as "supplements." The periodic core was designed and fielded in 1999, but has not been part of the survey since. Unlike the previous design, the basic module in the post-1997 NHIS has three components: the family core, the sample adult core, and the sample child core.

Broadly, the changes in the redesigned 1997 NHIS are the use of rotating content, an emphasis on self-reports, improvements in the measurement of health status and chronic conditions, and the capacity to analyze family-level data (Fowler 1996), although the use of rotating content has not been implemented. There are several notable specific changes to the 1997 core relative to the previous design. One significant change was the inclusion of six mental-health related questions aimed at measuring psychological distress; we use these questions to construct a measure of mental disability known as the Kessler Index (discussed further in section III). Also, the 1997 NHIS included two additional questions aimed at measuring physical and cognitive disability. The question aimed at measuring cognitive disability asks respondents if they experience limitations due to problems with memory or confusion. We chose not to include analysis of this information due to concerns with the ambiguity of the question. The redesigned NHIS also asks respondents whether they have difficulty walking without the aid of special equipment; we opted not to use data from this question due to the existence of a superior

set of questions measuring physical disability, found in other parts of the survey. In addition, there were a few dozen minor changes to the 2002 NHIS core relative to the 2001 NHIS.⁷ The only one of obvious relevance to our analysis is changes in the skip pattern for question AHEARST, which asks: "which statement best describes your hearing without a hearing aid? Good; a little trouble; a lot of trouble; deaf."

The sample design changes every 10 years, with the most recent sample design occurring in 1995. Many of the changes in sample design are technically complex and beyond the scope of this paper (see NCHS 2000 for a complete discussion of the changes in sample design between periods). One notable change in sample design, however, concerns the oversampling of particular populations. The 1973-1984 sample design did not oversample any population, while the 1985-1994 sample design included an oversampling of the black population in the United States. The current sample design, which was implemented in 1995, oversamples both black and Hispanic populations. The 2006 redesign will reportedly include oversampling for Asian and elderly persons as well. Other notable changes include the methods in which the NHIS adjusts for non-response (see NCHS 2002 for a detailed explanation) and the structure of the complex sample design used by NHIS¹⁰ (see NCHS 2000 for a detailed explanation). Lastly, it should be noted that approximately 10 percent of assigned interviews were not attempted due to budget constraints in 2002.

Universe and Sample Design.

The target universe of the NHIS is all dwelling units that contain members of the civilian noninstitutionalized population in the United States. As stated earlier, the NHIS sample does not include those residing in institutions, (including those in prisons and

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⁷ There are often minor changes to the NHIS questionnaire in each year, see (NCHS 2003) for a complete description of the changes specific to the 2002 NHIS questionnaire.

⁸ In 2001, AHEARST followed a question that asked "Have you ever worn a hearing aid?" In 2002, an intermediate question about the frequency of hearing aid use was asked of those persons who had worn a hearing aid.

⁹ For a complete description of the change in NHIS survey design over time, see Ch. 2, Table 1 in NCHS 2000.

¹⁰ Specifically, the first level of stratification changed from census region to state, increasing the number of primary sampling units from 198 to 358.

long-term care facilities), members of the active duty armed forces, or U.S. nationals living abroad. In 2002 the NHIS sample consisted of 36,161 households (36,831 families) that yielded 93,386 persons. For the sample adult component, 31,044 adults were interviewed; this sample forms the basis for analysis in this User Guide. The total household response rate was 89.6 percent. Of the 10.4 percentage points representing the non-interview rate, 7.1 percentage points were due to respondents' refusal to participate while 3.3 percentage points were due to an inability to locate an eligible respondent.

The NHIS sample is based on a complex design incorporating stratification, clustering, and multistage sampling. The purpose of multi-stage, clustered sampling is to achieve greater administrative efficiency and to keep survey operations manageable and cost-effective. Because the NHIS is conducted via in-person interviews, costs associated with data collection are significant. Given these cost constraints, simple random sampling would be impossible because the sample would be too geographically dispersed. Further, black and Hispanic populations are oversampled to improve the precision of estimates for statistics on these subpopulations.¹¹

For point estimates of a certain population, NCHS produces weights that can be used to estimate national prevalence rates and other statistics for a given variable. In this User Guide, the NHIS variable 'final annual sample adult weight' is used. This weight is developed to include design, ratio, non-response, and post-stratification adjustments for the population sampled in the sample adult core. Because the NHIS does not employ simple random sampling, more complex variance analysis must be used in computing the variance of point estimates. Using standard statistical procedures will produce, in general, standard errors that are too small, and the probability of a type I error (rejecting a true null hypothesis) under standard hypothesis tests will be larger than the specified significance level (i.e., tests will be biased toward rejecting the null hypothesis). See Appendix B for greater detail about sampling structure and variance (standard error) estimation.

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¹¹ Black and Hispanic populations would still be represented in the absence of oversampling; the oversampling procedure is used to improve the stability of the point estimations.

Data Collection and Methodology.

The U.S. Census Bureau is the data collection agent for the NHIS. About 400 interviewers are used; they are trained by health survey supervisors at regional U.S. Census Bureau offices and elsewhere. Data are collected by in-person interviews, using Computer Assisted Personal Interviewing (CAPI); while the questionnaire itself is written in a computer language, a simplified CAPI Reference Questionnaire, or CRQ, is available for reference.

For the family core component of the basic module, all adults over age 17 who are present in the home are invited to participate in the interview. A representative adult residing in the home is asked to provide information for children and absent adults. For the sample adult core, one adult in the household is randomly selected and responds for his or her self, if possible. For the sample child core, one child is randomly selected, and information on that child is provided by a knowledgeable adult residing in the household. Interviewers are required to make a specified number of attempts to contact the sample adult in person or by telephone. If the sample adult is contacted, but unable to respond due to a disability or health problem (in the judgment of the interviewer), a proxy respondent may be interviewed.

Definitions.

A description of the survey questions and the methods used to produce data on disability, demographics, economic well-being, and employment is shown in Table 1.

Disability. Data on disability are derived from questions in both the person-level file of the family core, and the sample adult file. We use these questions to define six disability types, two corresponding to the ICF concept of participation restrictions, one corresponding to the concept of activity limitation, and three corresponding to the concept of impairment. We chose these definitions for illustrative purposes and for facilitating comparisons between the NHIS and other surveys – especially the ACS. The definitions we use are conceptually similar to the six disability categories used by the ACS. Data on participation restrictions and activity limitations are derived from the

person-level file of the family core, while data on impairments are derived from questions included in the sample adult survey.

The family core has six substantive sections; questions on disability are derived from the 'health status and limitation of activity section.' The health status and limitation of activity section contains survey questions on work limitations, limitations to ADLs, IADLs, difficulty walking without special equipment, and difficulty with cognition. Within the sample adult survey, the NHIS asks respondents questions concerning sensory disability, physical disability, and mental health. We used data from these questions to create disability definitions consistent with the ICF concept of impairment.

For the participation restrictions, we used questions FHS.170 and FHS.190 to measure work limitation and question FHS.150 to measure difficulty with IADLs. FHS.170 measures whether a physical, mental or emotional condition prohibited an individual from working at the time of the survey. Respondents answering 'no' to question FHS.170 were asked a follow-up question, FHS.190, concerning whether the respondent was limited in kind or amount of work due to a physical, mental, or emotional problem. Because being asked question FHS.190 was conditional on a respondent answering 'no' to FHS.170, the two different classifications of work limitation are mutually exclusive.

To measure limitations to IADL, we used question FHS.150, which asks if a respondent requires assistance in handling routine needs, such as everyday household chores, doing unnecessary business, shopping, or getting around for other purposes, due to a physical, mental or emotional problem. This is consistent with the ICF concept of participation restrictions.

The question measuring ADL disability is consistent with the ICF concept of activity limitation. Question FHS.070 asks whether a respondent requires assistance with personal care needs, such as eating, bathing, dressing, or getting around inside the home, due to a physical, emotional, or mental problem. For those answering in the affirmative, a series of six questions was asked concerning the specific personal care needs that an individual required help completing.

In 1997, the NHIS began asking respondents in the sample adult survey a series of six questions about psychological distress. Specifically, respondents were asked how often, in the past 30 days, they felt {so sad that nothing can cheer you up, nervous, restless or fidgety, hopeless, that everything was an effort, worthless. Kessler et al. developed the series of questions as a measure of non-specific psychological distress. (See Kessler et al. 2002 for a detailed description of the development of the set of questions.) The authors developed an index, referred to as the Kessler Index, which assigned a score to the response to each of the six questions (none of the above/don't know/refused=0, a little of the time=1. some of the time=2, most of the time=3, all of the time=4). If the aggregate total of these six questions was in excess of 12, the respondent was classified as having a mental disability. The goal of the Kessler index was to measure non-specific psychological distress, rather than disorder-specific diagnostic measures of mental illness. The authors note, however, "People with a wide range of mental disorders typically have high scores on this core dimension of non-specific distress." (Kessler et al. 2002, p. 961). Further studies have shown that the Kessler Index is an excellent predictor of serious mental illness, although the measure is not successful in identifying the nature of the mental illness (Kessler et al. 2003). Thus, while this measure of mental illness can be used to track the development of serious mental illness over time, it fails in identifying trends in specific mental illnesses, or even general categories of mental illness, such as cognitive or affective disorders. The notion of non-specific psychological distress is consistent with the ICF classification of impairment.

Within the 'limitation of activities' section in the sample adult survey, respondents are asked a series of 12 questions concerning the degree of difficulty a respondent had with a particular activity (questions AHS.091 and AHS.141). We use data from nine of these questions; see Table 1 for a list of the specific questions. If a respondent answered that any of the nine activities was 'very difficult' or that he/she couldn't perform the activity, the respondent was classified as having a physical disability.

The sample adult survey contains questions on sensory disabilities. We use data from two questions to define sensory disabilities. An individual is classified as having a

vision disability if she or he indicates blindness in question ACN.440. A respondent is classified as having a hearing problem if she or he indicates deafness, or 'a lot of trouble' hearing without special equipment. This definition is consistent with the ICF concept of impairment.

While this series of disability definitions forms a comprehensive definition of disability overall, there may be some individuals considered to have a disability under the conceptual definition of disability but not captured as having a disability under these definitions. The set of questions forming the basis for the Kessler Index score asks respondents about their mental health in the past month, but could potentially omit those persons experiencing severe psychological distress earlier in the survey year. Also, those persons with cognition difficulties, but not experiencing psychological distress, may not be captured by this definition of mental disability.

Similarly, there may be some individuals who classify as having a disability due to a temporary condition or circumstance. The questions forming the basis for the definition of physical disability ask respondents about immediate physical limitations; the period of time the respondent has been physically limited is not recorded. Likewise, the questions forming the basis for the Kessler Index ask respondents about their mental health over the past 30 days; those experiencing psychological distress at earlier points in the year would be excluded from this classification.

There are data from several questions in the redesigned NHIS questionnaire, directly asking about disability, that we have opted to omit from this User Guide. This set of questions includes a question concerning the degree of difficulty walking without special equipment and limitations due to confusion or insufficient memory. We have also elected to omit data from a set of questions in the sample adult survey that ask about difficulty completing certain tasks and participating in certain activities. ¹³

We chose to omit data from the question asking about difficulty walking without special equipment due to the existence of superior questions concerning physical

¹³ This set of three questions (AHS.171) is asked in the sample adult survey.

¹² See Table 1 for the specific wording of these questions.

disability in the sample adult section, namely the set of ten questions ¹⁴ concerning degree of difficulty completing various physical tasks. This set of ten questions forms a standard set of questions frequently used to measure disability. Due to the existence of the set of standardized questions, and concerns with the questions confounding disability and environment, we also opted to omit data from three additional questions concerning degree of difficulty completing tasks and participating in activities, added by NCHS in the 1997 questionnaire redesign. Lastly, we opted not to use a question regarding limitations associated with periods of confusion, due to the ambiguity of the question and our concerns that those designated as having a mental disability by responding in the affirmative would not necessarily match the criteria established for having a mental limitation.

Demographics. Demographic data is derived from the 'demographic info' section of the household survey and the 'family relationships and verification of demographic data' section of the family core. Many of the demographic questions are straightforward. Respondent gender is derived from question HHC.110: "Are you male or female?" and respondent age is derived from question HHC.120: "What is your age and date of birth?"

We use NCHS recodes for the race and ethnicity questions. Race is derived from HHC.200: "What race do you consider yourself to be?" We use the race recode variable 'racerp_i,' which contains details for 4 of the 5 OMB race groups (white only, black only, Asian only, and American Indian/Alaskan Native only), in addition to an "other race" category and a category for multiple race. Native Islander/other and Pacific Islander identifications are included in the "other" race category for confidentiality reasons. Respondents with multiple Asian or AIAN races are coded as Asian only or AIAN only, rather than as "multiple race." Ethnicity (i.e. Hispanic/non-Hispanic) data are derived from HHC.170: "Do you consider yourself to be Hispanic/Latino?" We used the ethnicity recode variable 'origin_i,' which included imputed values for missing responses to this question.

These questions are asked under sample adult questions AHS.091 and AHS.141.

Data on education are derived from FSD.010: "What is the highest level of school completed or the highest degree received?" Adults were presented with multiple options for educational levels. In addition to 'don't know,' categories include never attended; grades 1-11; 12th grade, no diploma; high school graduate; GED or equivalent; some college, no degree; AA degree, technical or vocational, AA degree, academic program; bachelor's degree (BA, AB, BC, BBA); master's degree (MA, MS, MEng, Med, MBA); and doctoral degree (PhD, EdD). The NHIS does not have any educational codes for special education for adults.¹⁵

Economic Well Being. Poverty rates were derived from the constructed variable rat cati, which contains the ratio of family income to poverty in 14 different categories (e.g. under 50 percent, 50 to 74 percent, etc.) This is a family-level variable, so all members of the same family have the same value for this variable. NCHS released imputed values for family income (and income to poverty ratios) in five separate and distinct datasets to account for the variability associated with the imputation of income data. Our values for imputed poverty ratios are the simple average of the variable imputed income to poverty ratio for all five datasets.

Family income in the NHIS is derived from three questions, FIN.250, FIN.260, and FIN.270. FIN.250 first asks respondents: "Now I am going to ask about the total combined income {for you/of your family} in {last year in four digit format}, including income from all sources we have just talked about, including wages, salaries, Social Security or retirement benefits, help from relatives and so forth. Can you tell me that amount before taxes?" If the respondent could not answer this question, they were then asked FIN. 260, which asked respondents to indicate if their total combined family income was above or below \$20,000. If the respondent could answer FIN.260, they were presented with a list of income groups (depending on their answer to FIN.260) and asked to choose the income group that best represented their family's total combined income in the previous year.

¹⁵ In the family core section, the NHIS asks about children and special education.

The poverty levels employed were the poverty levels published by the Census Bureau in 2001. The variables fm_size and fm_kids, which describe family size and number of family members under 18 years old, respectively, were also used in the construction of the income to poverty ratio, along with the imputed values for family income. Due to the imputation of data, no cases were classified as unknown, although a small number of cases were classified as 'undefinable' when the number of family members under 18 equaled the size of the family.¹⁶

Poverty statistics do not adjust for expenses that are the result of a health condition or a disability (e.g., personal assistance, equipment, medications, etc.). They also do not adjust for in-kind benefits, such as health insurance, food stamps, housing, transportation, child-care, etc. For both reasons, household income relative to the poverty line is substantially limited as an indicator of a household's poverty if the household contains a person with a disability.

Employment. We used four questions from the NHIS to determine employment status; see Table 1c for a specific description of those questions. In our analysis, persons are considered employed during the reference period if they answered that they were 'working for pay at a job or business' or 'with a job or business, but not at work' in the past week. Similarly, persons are considered employed 'sometime in the previous year' if they answered that they 'worked for pay at any time in the past year.' Lastly, persons are considered to be employed full-time year round if they answered that they worked at least 35 hours in the previous week, and indicated that they worked 12 months in the previous year at (at least) one job or business. We make the assumption that their full-time status in the previous week can be extended across all months in the previous year.

Dissemination.

Much of the data collected by the NHIS, and the subsequent analysis, is publicly available. Public use microdata have been released since 1969, and are available on CD-ROM. Current public use microdata files are available on the internet at

¹⁶ See Proctor and Dalaker (2002) for a discussion of poverty thresholds.

ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Datasets/NHIS/2002/. In recent years, NCHS has released imputed income files to help account for the high proportion of non-response to questions relating to income. An assortment of other information, including survey questionnaires, flashcards, field representative manuals, input statements, and survey flowcharts, may also be downloaded from the NHIS website.

NCHS also produces a number of reports, based on data collected by the NHIS, which are available publicly; NHIS statistics and reports are published on the NCHS website, http://www.cdc.gov/nchs/nhis.htm. The NCHS Series 10 is devoted exclusively to reports compiled using data from the NHIS. Some of these reports concern a specific health issue, such as Attention Deficit Disorder and Learning Disability in the United States, while most are more general summaries of the health of the U.S. population, or subsets of the population. Detailed tables, including some state and regional statistics, may be downloaded at http://wonder.cdc.gov/data2010/, while customized tables may be produced using the U.S. Census' Ferret system, which can be found at http://dataferrett.census.gov.

NHIS Description of Disability Population

Disability can have different implications for employment and economic well-being at different ages. In this Guide, we first identify different age groups that reflect differences in activities. These age groups are: school-to-work transition-age persons between the ages of 18 and 24, working-age persons between the ages of 25 to 61, late working-age persons between the ages of 62 and 64, and retirement-age persons ages 65 and older. Our analysis of employment and economic well-being focuses on working-age persons between the ages of 25 and 61.

Population estimates, prevalence estimates, and sample sizes from the NHIS are presented in Table 2. The rows are divided into sections for the population ages 18 and older and for each of the age categories. The columns identify the population without disabilities, those with disabilities, and those with each of the six disability types identified in the NHIS. The populations for the disability types sum to more than the total population with disabilities because individuals may report more than one disability type (i.e., the types are not mutually exclusive).

The column labeled disability shows that in 2002 an estimated 43.1 million people ages 18 and older, or 20.9 percent of that population, reported a disability. Of the two participation restrictions that are asked of all people ages 18 and older, approximately 24.1 million people report an employment disability and 7.7 million report an IADL disability, for prevalence rates of 11.7 percent and 3.7 percent, respectively. Of the activity limitations and impairments that are asked for all people ages 18 and older, an estimated 3.6 million report an ADL disability, 6.3 million report a mental disability, 28.3 million report a physical disability and 7.0 million report a sensory disability. The prevalence rates are 1.8 percent, 3.0 percent, 13.8 percent and 3.4 percent, respectively.

Moving down to the age group categories, the group with largest number of people with disabilities, approximately 23.2 million, is the working age population between the ages of 25 and 61. The table also shows that the prevalence of disability increases with age from 7.8 percent of the population between the ages 18 to 24 to 47.5 percent of the population ages 65 and older. Finally, the table shows that the composition of disability type changes with age. Work limitation disabilities are the most prevalent of the six disability types for those ages 18 to 24, at 3.4 percent. Physical disabilities are the most prevalent of the six for the remaining age groups, at 10.5 percent for those aged 25-61, 23.3 percent for those aged 62 to 64, and 34.6 percent for those aged 65 and above.

The distribution of age, gender, race and education characteristics within each disability group are shown in Table 3. The first section of the table shows that the population without disabilities tends to be younger than the population with disabilities. The first column shows that a majority of the population without disabilities is age 44 or younger, with 15.5 percent of the population between ages 18 and 24, 20.7 percent between 25 and 34, and 23.3 percent between 35 and 44. In sum, 59.5 percent of adults without disabilities are between ages 18 and 44. The corresponding percentage of the population with disabilities in the 18 to 44 age range is only 26.1 percent (4.9 percent +7.1 percent+14.1 percent). Age differences are similar for the other disability categories in the NHIS, with the notable exception of mental disabilities; 25.1 percent of the

population with a mental disability is between the ages of 18 and 34 and 23.3 percent between the ages of 35 and 44.

The next section of the table shows differences by gender. More than half of the population without disabilities is female compared to 58.2 percent of the population with disabilities. Table 3 shows that the largest gender compositional differences are among those with IADL and physical disabilities, where 66.8 percent and 64.3 percent of the respective populations are women.

The NHIS data show the population with disabilities tends to have a greater share of white, black, and Native Americans, and a smaller share of Asians, compared to the population without disabilities. Approximately 82.6 percent of the population with disabilities is white, 12.4 percent is black, and 1.2 percent is Native American compared to corresponding percentages of 81.0 percent, 11.4 percent, and 0.6 percent of the population without disabilities. The population with disabilities that are Asian is 1.7 percent compared to the 4.1 percent of the population without disabilities who are Asian. The share of persons with disabilities who report Hispanic ethnicity is 7.9 percent, smaller than the 11.9 percent of the population without disabilities that reports Hispanic ethnicity.

Finally, Table 3 shows that the population with disabilities consists of a greater share of people with low levels of education compared to the population without disabilities. An estimated 27.3 percent of adults with disabilities have less than high school education and another 33.8 percent only has a high school education, while the corresponding numbers for those without disabilities are 13.5 percent and 28.4 percent respectively.

NHIS Economic Well-Being and Employment Estimates

In Table 4, we reported statistics concerning the economic well-being of the working-age population with and without disabilities. A significantly higher percentage of persons with disabilities reported family income beneath the poverty threshold than persons without disabilities; we estimate that 21.2 percent of the population with disabilities reported family income below the poverty threshold compared to 7.5 percent of the population without disabilities. The poverty rate is highest for those reporting an

IADL disability, with an estimated 32.3 percent under the poverty threshold, while the lowest poverty rate for those with disabilities is for those with a sensory disability, with 20.7 percent below the poverty threshold. The poverty rate for persons with disabilities is significantly higher across demographic groups, with the poverty rate for persons with disabilities usually being two or three times that of those without disabilities.

We also found that a slightly higher proportion of women had family income beneath the poverty threshold, including those with disabilities. This relationship is found for all disability groups, except for those with sensory disabilities, where the difference was large; we found that men with sensory disabilities tended to have very low rates of poverty relative to men and women with other disabilities. There were also large differences in poverty rates by race. In general, we found that the lower poverty rates experienced by whites and Asians relative to other race groups persisted across disability categories. One exception to this trend is for those with IADL disabilities, where the poverty rates were almost equal for all racial groups except blacks (blacks with an IADL disability had poverty rates about double that of other groups).

In addition to poverty rates, we calculated median household income category by demographic group for those in the working-age population. (The NHIS does not allow for the calculation of median income other than the income range, or category, in which the median income falls.). In general, we found the median income category to be inversely proportional to the poverty rate for a demograph4ic group. It should be briefly noted here that the calculations presented in Table 4 are based in large part on data imputed by the NCHS because the NHIS response rate for questions relating to family income was low relative to other questions. As a result of the data imputation procedure, the variability of these estimates is high compared to other estimates in this User Guide. A more specific and technical description of these calculations is presented in Appendix A.

In Table 5, we report differences in employment characteristics by disability category. In general, those with disabilities are much less likely to be employed than those without disabilities. We estimate that 57.9 percent of persons with disabilities were employed sometime during the previous year, while 47.3 percent were employed

sometime in the week prior to the interview and about 30 percent were employed fulltime during the course of the previous year.¹⁷

As expected, employment rates for men, both with and without disabilities, were higher than for women. The two exceptions to this pattern are the rate for women with an IADL disability who worked at some period in the past year, and full-time employment for women with a mental disability. We also found that, in general, the discrepancy between male and female employment patterns was more pronounced in the population without disabilities than within the population with disabilities.

Among those persons indicating a disability, those with sensory disabilities had the highest employment rates and those with IADL or ADL disabilities had the lowest. About 40 percent of those indicating a work limitation worked at some point during the previous year, but only 16.3 percent indicated that they were employed full-time over the course of the year.

Although there are similar employment rates for whites, Asians, and blacks without disabilities, the employment rates for whites and Asians with disabilities are higher than for blacks with disabilities. The full-time, full-year employment rates for whites, blacks and Asians was approximately 60 percent for all three groups in the population without disabilities. In the population with disabilities, however, about 40 percent of Asians, 30 percent of whites, and 20 percent of blacks were employed full-time for all 12 months.

Employment rates increase with education across all groups and definitions of employment. The employment rates of the population without disabilities and with a high school education were slightly lower than the employment rates for the population without disabilities with some college education. This difference became more substantial for the population with disabilities; 28.8 percent of the population with disabilities with a high school diploma only was employed full-time for the entire year, compared to 38.1 percent of the population with disabilities with some college education.

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¹⁷ NHIS does not directly ask respondents if they were employed full-time during the previous year. We classify persons being in full-time employment over the past year if they indicated they worked 35 or more hours in the past week, and worked 12 months over the past year.

We found the definition of work limitation to be a sufficient measure of employment disability. If the measure of work limitation was a perfect one, we would expect the employment rate for the group with disabilities who did not indicate a work limitation to equal the employment rate of the group without disabilities. Indeed, the employment rates for these groups were similar. According to estimates not reported in Table 4, for those working-age persons reporting disabilities other than a work limitation, we found that 68.1 percent reported working during the reference week, compared to 79.1 percent of the population without disabilities (29.8 percent of those with a work limitation worked in week prior to the survey). Similar patterns persisted when using alternate definitions of employment.

Multiple Disabilities, Health Care, Insurance, and Health Conditions

In Tables 6 (ages 18-64) and 7 (ages 65+), we report the percentage of persons with disabilities having a disability in each single or dual disability category. We found that of those in the working-age population with disabilities, a large proportion have only a work limitation or physical disability (17.9 and 23.8 percent, respectively); this trend also holds for the elderly. For the working-age population, over 90 percent of those with ADL and IADL disabilities had work limitations and over 70 percent had physical disabilities. For those with other disabilities, the likelihood of reporting a work limitation was much lower. About half of those with a sensory disability didn't report another type of disability, while only about 2 percent of those with an ADL or IADL disability only reported one disability type. Elderly persons with an ADL or IADL disability reported an employment disability with lower frequency than their working-age counterparts. Also, in every disability category except for ADL disability, the elderly were less likely to report only a single disability; multiple disabilities are more common among the elderly.

In Tables 8 (ages 18-64) and 9 (ages 65+), we report indicators of severe disability by disability category. We found that among working-age adults, about two-thirds were designated as having an employment disability due to their response that they were 'unable to work,' while about one-third of the group was designated as having an employment disability due to their answer that they were limited in the kind or amount of work they could do. For those working-age adults without disabilities, a significant

number (16.7 percent) have Kessler scores in the range of 4-12 – below the Kessler cutoff score for mental disability but more than the predominant category, 0 - 3. The
proportion is much higher for those adults with disabilities other than a mental disability
(the latter group is defined as those with a score of 13 or higher); at least one-third of the
working-age adults with each of the five non-mental disabilities reported Kessler scores
in the range of 4-12. For those working-age adults with a sensory disability, almost all
reported some sort of hearing problem. About 10 percent reported being deaf, while
about 78 percent reported having a lot of difficulty hearing without a hearing aid. ¹⁸

The proportion of elderly people without disabilities reporting a Kessler score in the 4-12 range is about half the rate of working-age adults (8.94 versus 16.67 percent, respectively). In general, the Kessler scores of the elderly were lower than those for working-age adults. In addition, we found many of the elderly persons with sensory disabilities were classified as such due to the response that they had "a lot of difficulty hearing" without a hearing aid. In total, 10.0 percent of elderly persons reported "a lot of difficulty hearing" compared with just 1.4 percent of working-age adults.

We report statistics related to health status in Tables 10 (ages 18-64) and 11 (ages 65+). As expected, those with disabilities reported worse health status, as a whole, than those without disabilities. Among those with disabilities, those with sensory disabilities reported the best health status. For those reporting difficulty completing a physical activity, we also show their reported health conditions. The comparison between those with and without disabilities is somewhat misleading, as the "no disability" category includes only those who reported minor difficulty with a physical activity. We find that among those aged 18-64 reporting difficulty with a physical activity, common health conditions were arthritis, back or neck pain, bone injury, and depression. With the exception of depression, these health conditions were common among elderly persons who reported having difficulty with a physical activity. A relatively high proportion of this group also reported heart-related health problems. For working-age adults, persons

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¹⁸ The question concerning blindness is a conditional one; only those who responded yes to the question "Do you have trouble seeing, even when wearing glasses or contact lenses?" were asked if they were blind. In 2002, 7.7 percent of working-age adults and 17.5 percent of elderly persons were asked the blindness question.

with disabilities had significantly higher rates of body-mass index (BMI) in the overweight and obese categories. The distributions of BMI were similar across disability categories. For the elderly, the distributions of BMI categories vary less with disability status, although persons with disabilities are more likely to report BMIs that indicate moderate and severe obesity.

In Tables 12 and 13, we report statistics concerning health-care utilization by disability characteristic. We find that HMOs are more common as a usual source of health care for the elderly than for working-age adults (85.5 percent versus 79.0 percent), while working-age adults are more likely than the elderly to use the emergency room and clinics as a primary source of health care (17.6 percent versus 11.8 percent). 'Usual sources of health care' vary little by disability status.

For the working age population, those reporting disabilities are much more likely to report inability to afford counseling/mental health care in the year prior to the survey. Much of this difference seems to be driven by those with mental disabilities who experience extremely high rates of being unable to afford mental health care or counseling. More than 20 percent of adults with mental disabilities have been unable to afford mental health care in the year prior to the survey, compared with 2.3 percent of the total adult population.

For both working-age adults and the elderly, the percentage visiting the ER at least once in the year prior to the survey was about twice as high for those with disabilities as for those without disabilities. Those with ADL, IADL, and mental disabilities had higher rates of visiting the ER at least once compared to those with other disabilities. As expected, the percentage of persons with disabilities receiving at home care was much higher than people without disabilities. The percentage of elderly persons with disabilities receiving at-home care was about twice that of their counterparts without disabilities, while the percentage of working-age adults with disabilities receiving at-home care was about four times that of working-age adults without disabilities. Both elderly and working-age people with disabilities are much heavier users of health care than those without disabilities. For instance, 70 percent of the elderly with disabilities and 65 percent of working-age adults with disabilities had four or more office visits in the

previous year, compared to just 46 percent for the elderly without disabilities and 28 percent for working-age adults without disabilities. Over 50 percent of those with disabilities in both age groups had 10 or more home care visit during the year, compared to about 10 percent for those without disabilities in both age groups. A much higher rate of persons who needed health care, but did not receive it due to cost, was found for people with disabilities than for those without. The difference was most pronounced for working-age adults.

In Tables 14 and 15 we report health insurance statistics by disability category. We find the distributions of out-of-pocket expenditures on health care were similar for both the populations with and without disabilities, although those in the population with disabilities are somewhat more likely to spend high amounts (in excess of \$1,000) on health care. For the elderly, the distribution of sources of health care financing was similar for the populations with and without disabilities, with those without disabilities being somewhat more likely to be covered by private insurance only. For working-age adults, the distributions of sources of health care expenditures for persons with disabilities and those without disabilities were much more dissimilar than for the elderly population. About three quarters of working-age adults without disabilities reported being covered by private insurance only, compared to half of their counterparts with disabilities. Working-age persons with disabilities were more likely to be covered by public insurance, while the rates of uninsured were similar across populations with and without disabilities.

Tables 16 and 17 contain the statistics concerning the use of special equipment. Almost no working-age adults without disabilities require special equipment (0.50 percent), while 16.8 percent of the working-age population with disabilities reported using special equipment. For the elderly, the rates were 2.1 and 35.9 percent, respectively. For both working-age adults and the elderly, those with ADL and IADL disabilities had much higher rates of using special equipment than those with other types of disabilities. The rate of using a hearing aid for the elderly is significantly higher for the population with disabilities than for the population without disabilities. Almost 7 percent

of elderly persons without disabilities reported using a hearing aid, compared with 21.1 percent of elderly persons who did have disabilities.

Comparison to Other Data Sources

The NHIS is one of several nationally representative datasets that are used to estimate the number of people with disabilities, the prevalence of persons with disabilities, the employment rate of persons with disabilities and the economic well-being of persons with disabilities. Different surveys use different methods to collect information on persons with disabilities and these differences can lead to differences in estimates. Some differences are as fundamental as how disability is defined. Many others are much more subtle (e.g., sampling methodology, interview methodology, structure of the questionnaire). This section shows how the NHIS estimates of the population compare to estimates from other nationally representative surveys.

The national datasets used for the comparison include: the 2002 American Community Survey (ACS), the 2000 Decennial Census (Census), the 2002 Current Population Survey (CPS), the 1994 National Health Interview Survey-Disability Supplement (NHIS-DS), the 2001 Panel Study of Income Dynamics (PSID) and the 2002 Survey of Income and Program Participation (SIPP). The year associated with each dataset represents the actual year that the survey was administered. Details on the methods used to collect information on persons with disabilities in each of these surveys may be found in the corresponding Cornell StatsRRTC User Guide.

Differences in estimates may be related to differences in the population over time. Thus, it is important to pay special attention to the survey year when comparing estimates across the surveys. The 2000 Decennial Census Long Form, for example, is representative of the year 2000. Changes in the population, the labor market and the economic environment between the year 2000 and the year 2002 can affect population estimates as well as estimates for prevalence, employment and economic well-being, and other variables.

Each comparison table defines disability as the presence of a participation restriction, an activity limitation, or an impairment. Some datasets are limited to identifying disabilities based upon a participation restriction. This is evident in the table

by looking across the columns that identify the ICF disability concepts. A "NA" entry indicates that specific information on the particular ICF concept is not available in the survey. Disability is defined in these cases only based upon the information that is available in the survey. For example, the CPS only contains information on work limitation. The definition of disability in the CPS is therefore based solely on whether the person has a work limitation. In Figure 1, this definition captures a portion of persons who fall within the participation restriction circle.

The comparisons are made across the working-age population, only, for two reasons. First, most of the nationally representative surveys focus on the working-age population. Second, among the subset of surveys that identify children with disabilities, there are relatively large differences in the methods used to define and identify disability, and it is difficult to make meaningful comparisons. Further research on methods used to identify children with disabilities is needed.

Population and Prevalence Estimates.

The NHIS population and prevalence rate estimates are generally larger than estimates from datasets that use a smaller set of questions to estimate the size of the population with disabilities, but smaller than estimates from the one dataset that uses a larger set of questions. Table 18 shows differences across surveys in the size of the population with disabilities. The first section of the table shows the NHIS estimate of approximately 2.1 million persons between the ages of 18 and 24 with disabilities. It is smaller than the estimate of 2.4 million from the SIPP, which has a more extensive set of disability questions, but larger than the estimates from the 2003 ACS, Census 2000, the 2004 CPS, and the 2001 PSID, which use a smaller set of survey questions. The rest of the table shows comparisons for other age groups. The 2002 NHIS shows 23.2 million persons with disabilities in the 25 to 61 year age group. It is smaller than the 26.6 million SIPP estimate, but larger than the estimates from other surveys.

Table 19 shows estimates for prevalence rates. The first section of the table shows the 2002 NHIS disability prevalence rate estimate of 7.8 percent for the population between the ages of 18 and 24. It is lower than the SIPP estimate of 8.9 percent and higher than estimates based upon the 2003 ACS, Census 2000, the CPS and the PSID.

For the working-age population between the ages of 25 and 61, the 2002 NHIS disability prevalence estimate is 16.7 percent, which is lower than the 18.7 percent reported in the SIPP, but higher than the 11.9 percent reported by the ACS, the 14.6 percent reported by the PSID, the 10.1 percent reported in the Census 2000 and the 8.4 percent reported in the CPS. For the population age 62 to 64, the NHIS data show a prevalence rate estimate of 32.5 percent. The NHIS estimate is lower than the SIPP estimate of 39.5 percent, is lower than the ACS estimate of 26.7 percent and the PSID estimate of 30.1 percent, and is higher than the Census 2000 estimate of 22.7 percent and the CPS estimate of 18.9 percent. For the population aged 18 to 64, the NHIS data shows a prevalence rate of 15.8 percent. Again, it is lower than the prevalence rate found in the SIPP, but higher than the prevalence rates found in other surveys.

Employment Rate Estimates.

The employment rate estimates in the NHIS fall in the middle of the range of estimates from national surveys; Table 20 illustrates these findings. The NHIS reference period measure shows an employment rate estimate of 83.3 percent for working-age persons without disabilities and 47.3 percent for persons with disabilities. For those without disabilities, the NHIS employment rate is slightly higher than estimates from other national surveys, other than the PSID. For those with disabilities, it is lower than the PSID estimate of 53.2 percent and is slightly lower than the SIPP estimate of 48.9 percent and is higher than the estimates from the ACS, Census 2000, and the CPS. The NHIS employment rate estimate using the 'some attachment to the labor force' measure for persons with disabilities is 57.9 percent. It is lower than estimates from the 2002 SIPP and the 2001 PSID, and larger than estimates from the 2003 ACS, 2000 Census, and the 2002 CPS. The NHIS full-time full-year estimate for persons with disabilities is 29.8 percent. It is lower than estimates from any other survey except for the PSID and SIPP estimates.

As these numbers indicate, employment rates tend to be highest in the surveys that show relatively high disability prevalence rates, and lowest in the surveys that show relatively low prevalence rates. Presumably this is because people with disabilities that are least likely to affect employment are also least likely to be identified as having

disabilities in surveys that include only a few disability questions. The latter invariably include work limitation questions, which, by design, are the most likely to capture those who are not working because of a disability. This same phenomenon is observed for measures of economic well-being.

Economic Well-Being Estimates.

The poverty rate estimates from the 2002 NHIS are in the middle of the range of estimates from other surveys; Table 21 compares poverty rate estimates across the datasets. The NHIS poverty rate estimate for the working-age population without disabilities is 7.5 percent. This estimate is higher than the PSID and SIPP estimates, and lower than estimates from other datasets. The NHIS poverty rate estimate for those with disabilities is 21.2 percent. This rate is lower than the poverty rate estimates in the ACS, CPS and Census 2000, and higher than the poverty rate estimates in the PSID and SIPP. The remaining columns show poverty rates across disability datasets by the disability type.

Because family income is reported as a range, the median income measures in the NHIS cannot be directly compared to those derived from other surveys. The trends are similar, however, with significant differences in family (or household) income between the populations with and without disabilities.

Summary and Conclusion

This Guide describes the information on the population with disabilities from the 2002 National Health Interview Survey (NHIS). It begins with a description of the ICF conceptual model of disability. The ICF provides a framework that may be used to assess the disability information in the NHIS as well as the disability information in other surveys.

The Guide then presents an overview of the survey methodology and definitions. The design of the NHIS provides several advantages over other data collection efforts. The NHIS contains the largest amount of information on health-related data of all the major surveys, including particularly unique and extensive data on health insurance, health care access and utilization, health status, health-related conditions and health

behaviors. The NHIS also contains a broad set of data on disability-related topics, including the limitation of functional activities, mental health questions used to measure psychological distress, limitations in sensory ability, and limitations in work ability. Moreover, the NHIS provides data for those persons who indicated a limitation to a functional activity about the source or condition of their functional limitation. Additional strengths of the NHIS include its continuous administration over the past five decades, which allows for the comparison of health trends, and the specialized information derived from supplemental survey questions.

We illustrate the utility of the NHIS with estimates based on the NHIS Public Use Microdata Sample for the population with disabilities, including: the size of the population, the prevalence rate, the demographic composition, the employment rate and economic well-being measures, all by disability type. At the national level, the NHIS estimates show that there are approximately 43 million adults (age 18 and older) with disabilities in the non-institutionalized U. S. population, 20.9 percent of the adult population. For those age 18 to 64 only, the estimate is 27 million persons, or 18.8 percent of the population. Compared to the population without disabilities, the population with disabilities is older, more likely to be of African American and Native American decent, and more likely to have educational achievement below the high school level. The NHIS data also show significant differences in health status, health care utilization, and characteristics of health insurance by disability status.

Finally, this User Guide compares estimates from the NHIS to other national surveys that collect information on the population with disabilities. The comparisons show that surveys that use a larger number of questions to identify the population with disabilities tend to have higher estimates of the population with disabilities, higher disability prevalence estimates, higher disability employment rates, higher household median income levels for persons with disabilities and lower poverty rates for persons with disabilities. Due to the large number of questions used to identify disabilities, estimates from the NHIS fall within the upper range of the range of estimates for the characteristics used in this Guide.

In conclusion, while there are limitations to the disability data collected in the NHIS, the NHIS provides very substantial information about the numbers and characteristics of persons with disabilities in the U.S. The extensive data on health status, health care utilization, and health insurance in the NHIS is particularly valuable, because it captures information that is not captured in other major surveys. The use of the NHIS to monitor the status of the population with disabilities and to provide insight into the environment that may influence progress will be an important component of the nation's efforts to reach the goals of full participation, independent living and economic self-sufficiency for the population with disabilities.

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Tables

Table 1a. Disability Definitions from the 2002 NHIS

NHIS Term	Question	Notes
ADL	FHS.070: Because of a physical, mental, or emotional problem {do/does}{you/anyone in the family} need the help of other persons with PERSONAL CARE NEEDS, such as eating, bathing, dressing, or getting around inside the home?	Classified as disabled if respondent answers 'yes' to this question.
IADL	FHS.150: Because of a physical, mental, or emotional problem {do/does}{you/anyone in the family} need the help of other persons in handling ROUTINE NEEDS, such as everyday household chores, doing unnecessary business, shopping, or getting around for other purposes?	Classified as disabled if respondent answers 'yes' to this question.
Work Limitation	FHS.170: Does a physical, mental, or emotional problem NOW keep {you/anyone in the family/any of these family members} (READ NAMES) from working at a job or business?	Classified as having a work limitation if answering in the affirmative to either question.
	FHS.190: {Are/ (other than the persons mentioned), are any of these family members} {you/(READ ADULT NAMES)} limited in the kind OR amount of work {you/they} can do because of a physical, mental, or emotional problem?	
Sensory	ACN.420: Which statement best describes your hearing without a hearing aid: good, a little trouble, a lot of trouble, deaf?	Classified as having a sensory impairment if individual indicates they have 'a lot of trouble' or are 'deaf'
	ACN.440: Are you blind or unable to see at all?	Classified as having a sensory impairment if individual indicates they are blind. Classified as having a physical
Physical	AHS.091: By yourself, and without the use of special equipment, how difficult is it for you to	disability if respondent answers 'can't do at all' or 'very difficult' to any question.
	 a. Walk a quarter of a mile-about 3 city blocks? b. Walk up 10 steps without resting? c. Stand or be on your feet for about 2 hours? d. Sit for about 2 hours? e. Stoop, bend, or kneel? f. Reach over your head? 	question.
	AHS.141: By yourself, and without the use of special equipment, how difficult is it for you to a. Use your fingers to grasp or handle small objects?	
	b. Lift or carry something as heavy as 10 pounds such as a bag full of groceries?	
	as a bag full of groceries?c. Push or pull large objects like a living room chair?	

Table 1a (continued). Disability Definitions from the 2002 NHIS

NHIS Term	Question	Notes
Mental	CAN.471: During the PAST 30 DAYS how often did you feel	Responses were assigned the following point value: (0) None of the time/Don't know/refused (1) A little of the time (2) some of the time (3) Most of the time (4) All of the time. Individuals with a combined score of 13 or greater were classified, under the Kessler Index, as having a mental disability.
	a. So sad nothing could cheer you up?	
	b. Nervous?	
	c. Restless or fidgety?	
	d. Hopeless?	
	e. That everything was an effort?	
	f. Worthless?	

Table 1b. Demographic Definitions from the 2002 NHIS

NHIS Term	Question
Gender	HHC.110: {Are/is}{you/name}male or female?
Age	HHc.120: What is {name/you} age and date of birth? Please give month, day, and year for date of birth. Note: If age given does not correspond to the age calculated from the date of birth, respondents are asked to verify information.
Race	HHC.200: What race {do/does}{you/names} consider {yourself/himself/herself} to be? Please select 1 or more of these categories. Possible responses include: White; Black/African American; Indian (American); Alaska Native; Native Hawaiian; Guamanian, Samoan, Other Pacific Islander; Asian Indian; Chinese; Filipino; Japanese; Korean; Vietnamese; Other Asian; Some other race; Refused; Don't know. If respondents answered multiple categories to HHC.200, they were asked HHC.220: Which one of these groups, that is (read groups) would you say BEST represents {your/name's} race?
Race Recode	NHIS employs a series of race recodes, including the recode into variable 'mracrp_i', which recodes race into the following categories: White; Black/African American; Indian (American), Alaska Native; Asian Indian; Chinese; Filipino; other Asian; other race; multiple race. In this guide, we combined the Asian categories into a single category.
Hispanic Origin	HHC.170: {Do/does}{you/names} consider {yourself/himself/herself} to be Hispanic or Latino?
Education	FSD.010: What is the highest level of school {you/subject name} {have/has} completed or the highest degree {you/subject name} {have/has} received?
Education Recode:	Those answering never attended/kindergarten only, 1st grade through
Less than High School	12th grade/no diploma were coded as 'less than high school.'
High School	Those answering GED equivalent or high school diploma were coded as 'high school.'
Greater than High School	Those answering some college, no degree; associate degree, bachelor's degree, master's degree, professional school degree, or doctoral degree were coded as 'greater than high school.'

Table 1c. Employment Definitions from the 2002 NHIS

NHIS Term	Question
Employment Status Questions	FSD.050: Which of the following {were/was} {you/subject name} doing last week?
	FSD.100: Did {you/he/she} work for pay at any time in {last year in 4 digit format}?
	FSD.070: How many hours did {you/subject name} work LAST WEEK at all jobs or businesses? OR How many hours {do/does} {you/subject name} USUALLY work at all jobs or businesses?
	FSD.110: How many months in {last year in 4 digit format} did {you/subject name} have at least one job or business?
Employment Definitions	
	Those answering 'working for pay at a job or business' or 'with a job or
Employed: Reference Period	business, but not at work' to FSD.050 were classified as employed during the reference period.
Employed:	Those answering 'yes' to FSD.100 were classified as employed sometime in
Sometime in Previous Year	the previous year.
Employed:	Those answering 35 or greater to FSD.070 and 12 to FSD.110 were classified
Full-time year round	as 'employed full-time year round.'

Table 1d. NHIS Economic Well-Being Measures from the 2002 NHIS

NHIS Term	Question
Family Income	FIN.250: Now I'm going to ask about the total combined income {for you/of your family}, including income from all sources we have talked about including wages, salaries, Social Security or retirement benefits, help from relatives and so forth. Can you tell me the amount before taxes? Note: Respondents who don't know or refused to answer this question were then asked if family income was greater than or less than \$20,000. If a respondent answered this question, they were then shown a flashcard listing a several income categories and were asked to select the category that best represented their total family income. See text for description of imputation procedures and issues.
Poverty	A ratio of total family income to the poverty threshold was constructed using total household size, in addition to number of children in the household. The variable 'rat_cati' reports a poverty gradient consisting of 14 ranges. See Poverty in the United States, 2001;.U.S. Census Bureau.
Household Size	NA
Household Income	NHIS only collects information on family income.
Household Adjusted Income	NA

Table 2. Population and Prevalence Estimates by Disability Concept

		Disability Participation Restrict			Activity Limitation		Impairment		
	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory	
All, Age 18-99									
Population Estimate	162,769,202	43,055,893	24,054,533	7,704,846	3,628,616	6,250,523	28,318,682	7,011,741	
Prevalence Rate	79.1	20.9	11.7	3.7	1.8	3.0	13.8	3.4	
Sample Size	23,872	7,172	4,171	1,443	615	1,030	4,774	1,138	
Ages 5 to 17									
Population Estimate	NA	NA	NA	NA	NA	NA	NA	NA	
Prevalence Rate	NA	NA	NA	NA	NA	NA	NA	NA	
Sample Size	NA	NA	NA	NA	NA	NA	NA	NA	
Ages 18 to 24									
Population Estimate	25,225,949	2,126,359	927,148	228,196	147,650	786,056	859,096	78,295	
Prevalence Rate	92.2	7.8	3.4	0.8	0.5	2.9	3.1	0.3	
Sample Size	3087	273	121	31	18	100	107	15	
Ages 25 to 61									
Population Estimate	115,934,131	23,192,261	13,725,573	3,169,051	1,350,820	4,627,949	14,545,909	2,730,316	
Prevalence Rate	83.3	16.7	9.9	2.3	1.0	3.3	10.5	2.0	
Sample Size	17,166	3,661	2,269	538	226	767	2,293	404	
Ages 62 to 64									
Population Estimate	4,239,825	2,045,373	1,281,364	300,042	127,714	144,240	1,466,133	310,628	
Prevalence Rate	67.5	32.5	20.4	4.8	2.0	2.3	23.3	4.9	
Sample Size	647	350	232	60	25	32	249	44	
Ages 65 and older									
Population Estimate	17,369,301	15,691,900	8,110,448	4,007,557	2,002,432	692,278	11,447,544	3,892,502	
Prevalence Rate	52.5	47.5	24.5	12.1	6.1	2.1	34.6	11.8	
Sample Size	2,972	2,888	1,549	814	346	131	2,125	675	

Table 3. Demographic Characteristics by Component of Disability Process

	_		Disability Participation Restriction Activity Limitation				Impairment			
Characteristic	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Dhygiaal	Consonv		
Age	Disability	or the o	Limitation	IADLS	ADLS	Mentai	Filysical	Sensory		
% 18 to 24	15.5	4.9	3.9	3.0	4.1	12.6	3.0	1.1		
% 25 to 34	20.7	7.1	6.4	3.8	4.0	12.5	4.9	4.6		
% 35 to 44	23.3	14.1	14.3	11.3	8.8	23.3	11.8	10.1		
% 45 to 54	18.9	19.2	21.4	14.7	14.3	28.4	20.0	12.0		
% 55 to 64	10.9	18.2	20.3	15.2	13.7	12.2	19.8	16.6		
% 65 to 74	6.8	15.6	14.8	14.4	13.3	5.7	16.8	19.5		
% 75 to 84	3.3	15.3	13.5	22.4	25.3	3.9	17.3	23.5		
% 85 or older	0.5	5.5	5.5	15.2	16.6	1.5	6.3	12.5		
Gender										
% Male	49.6	41.8	45.4	33.2	40.7	37.7	35.7	57.5		
% Female	50.4	58.2	54.6	66.8	59.3	62.3	64.3	42.5		
Race										
% White	81.0	82.6	81.8	80.2	76.1	78.7	82.7	89.6		
% Black	11.4	12.4	13.6	14.0	16.6	14.2	12.4	5.9		
% Native American	0.6	1.2	1.3	1.4	1.1	1.6	1.2	2.0		
% Asian	4.1	1.7	1.5	2.2	3.2	1.8	1.7	1.4		
% Other	2.7	2.0	1.7	1.9	2.6	3.5	1.9	1.2		
% Multiple Races	0.2	0.1	0.1	0.2	0.3	0.3	0.1	0.0		
Ethnicity										
% Hispanic	11.9	7.9	7.3	7.8	9.2	12.3	7.4	5.2		
Education										
% Less than High School	13.5	27.3	29.5	35.4	34.9	29.5	28.7	27.3		
% High School/GED	28.4	33.8	34.0	30.4	31.2	36.4	33.8	33.6		
% Some College	29.9	24.2	23.4	21.3	19.1	23.2	23.9	20.8		
% Four Year College Graduate or more	27.0	13.3	11.4	9.4	10.9	10.3	12.2	16.5		
% Refused/Don't Know	1.2	1.4	1.7	3.5	3.9	0.5	1.4	1.7		
Total	79.1	20.9	11.7	3.7	1.8	3.0	13.8	3.4		

 Table 4. Economic Well Being Measures, Ages 25 to 61

		Disability	Participation	Restriction	Activity Limitation		Impairment	
	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory
All								
% Below Poverty Line	7.5	21.2	26.5	32.3	30.1	29.8	22.1	20.7
Median Household Income	\$55,000- \$64,000	\$25,000- \$34,999	\$25,000- \$34,999	\$20,000- \$24,999	\$20,000- \$24,999	\$20,000- \$24,999	\$25,000- \$34,999	\$35,000- \$44,999
Men								
% Below Poverty Line	6.5	18.9	24.0	31.7	28.6	25.2	20.6	14.0
Median Household Income	\$55,000- \$64,000	\$25,000- \$34,999	\$25,000- \$34,999	\$20,000- \$24,999	\$20,000- \$24,999	\$25,000- \$34,999	\$25,000- \$34,999	\$35,000- \$44,999
Women								
% Below Poverty Line	8.5	23.0	28.7	32.7	31.6	32.7	23.0	30.8
Median Household Income	\$55,000- \$64,000	\$25,000- \$34,999	\$25,000- \$34,999	\$20,000- \$24,999	\$20,000- \$24,999	\$20,000- \$24,999	\$25,000- \$34,999	\$25,000- \$34,999
White								
% Below Poverty Line	6.0	18.0	23.5	28.9	25.2	27.7	18.6	17.0
Median Household Income	\$55,000- \$64,000	\$35,000- \$44,999	\$25,000- \$34,999	\$20,000- \$24,999	\$20,000- \$24,999	\$25,000- \$34,999	\$35,000- \$44,999	\$35,000- \$44,999
Black								
% Below Poverty Line	14.7	35.9	41.2	50.4	42.8	37.0	37.3	39.4
Median Household Income	\$35,000- \$44,999	\$20,000- \$24,999	\$15,000- \$19,999	\$10,000- \$14,999	\$10,000- \$14,999	\$20,000- \$24,999	\$15,000- \$19,999	\$15,000- \$19,999
Hispanic								
% Below Poverty Line	16.9	31.2	37.7	28.6	36.3	43.0	31.9	28.2
Median Household Income	\$35,000- \$44,999	\$25,000- \$34,999	\$20,000- \$24,999	\$25,000- \$34,999	\$25,000- \$34,999	\$20,000- \$24,999	\$25,000- \$34,999	\$35,000 \$44,999
Native American								
% Below Poverty Line	14.3	39.2	38.8	28.8	58.1	50.1	40.8	55.9
Median Household Income	\$25,000- \$34,999	\$15,000- \$19,999	\$10,000- \$14,999	\$15,000- \$19,999	\$5,000- \$9,999	\$10,000- \$14,999	\$15,000- \$19,999	\$10,000- \$14,999

Table 4 (continued). Economic Well Being Measures, Ages 25 to 61

		Disability	Participation	Restriction	Activity Limitation		Impairment	
	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory
Asian								
% Below Poverty Line	10.4	19.2	16.9	24.5	38.2	22.4	24.9	24.5
Median Household Income	\$55,000- \$64,000	\$45,000- \$54,000	\$45,000- \$54,000	\$25,000- \$34,999	\$25,000- \$34,999	\$55,000- \$64,000	\$35,000- \$44,999	\$55,000- \$64,000
LT High School								
% Below Poverty Line	23.3	41.5	46.5	53.2	43.4	46.0	44.4	38.0
Median Household Income	\$25,000- \$34,999	\$15,000- \$19,999	\$15,000- \$19,999	\$10,000- \$14,999	\$10,000- \$14,999	\$15,000- \$19,999	\$15,000- \$19,999	\$20,000- \$24,999
High School								
% Below Poverty Line	9.2	19.9	23.4	28.2	34.3	30.2	19.8	20.8
Median Household Income	\$45,000- \$54,000	\$25,000- \$34,999	\$25,000- \$34,999	\$20,000- \$24,999	\$15,000- \$19,999	\$20,000- \$24,999	\$25,000- \$34,999	\$25,000- \$34,999
More Than High School								
% Below Poverty Line	3.9	11.6	16.5	22.0	20.6	17.7	12.1	12.0
Median Household Income	\$65,000- \$74,000	\$45,000- \$54,000	\$25,000- \$34,999	\$25,000- \$34,999	\$35,000- \$44,999	\$25,000- \$34,999	\$45,000- \$54,000	\$45,000- \$54,000

Table 5. Employment Rates, Ages 25 to 61

		Disability	Participation	Restriction	Activity Limitation	I	mpairmen	ts
	No	At least 1	Work					
% Employed During	Disability	of the 6	Limitation	IADLs	ADLs	Mental	Physical	Sensory
All								
Reference Period	83.3	47.3	29.8	18.3	14.1	37.1	43.8	58.6
Sometime in Previous Year	88.3	57.9	42.0	25.7	19.8	51.8	53.8	66.6
Full-Time in Previous Year	62.8	29.8	16.3	9.3	6.2	21.3	27.2	43.4
Men								
Reference Period	90.8	49.2	32.8	16.2	19.2	38.1	42.6	64.6
Sometime in Previous Year	95.1	61.9	46.6	23.4	25.8	56.8	55.5	73.8
Full-Time in Previous Year	75.4	34.3	20.5	10.7	11.0	20.6	30.9	48.8
Women								
Reference Period	75.8	45.9	27.3	19.7	9.3	36.5	44.6	49.5
Sometime in Previous Year	81.4	54.8	38.1	27.2	14.3	48.7	52.8	55.7
Full-Time in Previous Year	50.3	26.3	12.6	8.4	1.7	21.8	25.1	35.4
White								
Reference Period	83.6	49.5	31.9	20.3	13.8	36.5	45.3	60.2
Sometime in Previous Year		59.7	44.2	28.0	19.3	50.8	54.5	69.0
Full-Time in Previous Year		31.4	17.2	10.5	4.7	21.5	28.1	46.4
Black	00.0	01		10.0			2011	
Reference Period	83.1	35.0	20.3	7.9	17.5	39.6	36.1	38.0
Sometime in Previous Year		47.5	31.6	13.8	21.7	58.1	50.2	43.6
Full-Time in Previous Year		22.1	12.7	4.7	13.1	19.5	24.0	26.8
Hispanic	02.7	22.1	12.7	7.7	13.1	17.5	24.0	20.0
Reference Period	78.9	39.9	17.4	15.8	8.8	33.8	36.5	68.8
Sometime in Previous Year		51.3	32.5	22.5	8.8	43.9	48.4	70.6
Full-Time in Previous Year		22.7	11.0	0.0	0.0	14.6	19.1	46.2
Native American	30.9	22.1	11.0	0.0	0.0	14.0	19.1	40.2
	72.1	27.2	21.5	2.6	11.2	22.4	25.0	77.7
Reference Period	73.1	37.2	21.5	3.6	11.3	32.4	25.0	77.7
Sometime in Previous Year		50.2	34.7	13.3	11.3	41.3	37.6	66.1
Full-Time in Previous Year	44.4	11.7	2.5	0.0	0.0	30.4	9.0	5.3
Asian	01.1	47.0	20.4	22.2	0.0	40.5	47.0	40.0
Reference Period	81.1	47.0	29.4	22.2	0.0	40.5	47.8	42.2
Sometime in Previous Year		58.3	38.7	22.2	38.2	46.6	57.1	70.0
Full-Time in Previous Year	58.0	38.8	22.8	22.2	0.0	19.3	38.8	42.2
LT High School								
Reference Period	72.9	30.0	15.4	8.3	3.4	24.2	24.8	37.0
Sometime in Previous Year		39.5	25.6	12.6	5.6	43.0	33.5	42.1
Full-Time in Previous Year	49.4	16.3	7.2	2.5	0.0	12.7	11.8	27.4
High School								
Reference Period	82.9	46.9	30.7	19.6	7.2	40.0	43.8	57.4
Sometime in Previous Year		58.2	43.6	32.0	19.3	50.4	55.9	66.8
Full-Time in Previous Year	61.5	28.8	15.5	7.9	2.9	23.2	27.0	43.4
More Than High School								
Reference Period	85.6	57.3	38.8	24.7	26.4	43.9	54.8	73.3
Sometime in Previous Year		67.9	51.9	30.7	29.9	60.4	63.9	81.8
Full-Time in Previous Year		38.1	23.4	15.6	13.0	25.7	36.2	53.5

Table 6. Multiple Disabilities, Respondents Aged 18-64

	Percent of respondents with at least one disability in each single or dual disability category									
	Employment	IADLs	ADLs	Physical	Mental	Sensory				
Employment	58.3	12.6	5.6	34.0	10.0	4.4				
IADLs	12.6	13.5	4.8	9.7	3.1	1.5				
ADLs	5.6	4.8	5.9	4.5	1.3	0.7				
Physical	34.0	9.7	4.5	61.7	9.7	4.4				
Mental	10.0	3.1	1.3	9.7	20.3	1.5				
Sensory	4.4	1.5	0.7	4.4	1.5	11.4				
Category Disability Only	17.89	0.28	0.16	23.77	7.99	5.38				

Note: The first cell in the first column can be interpreted as the percent of disabled respondents with an employment disability.

The second cell in the first column can be interpreted as the percent of disabled respondents with both an employment and IADL disability.

Percent of respondents having a disability conditional on reporting a category disability

	Employment	IADLs	ADLs	Physical	Mental	Sensory
Employment	100.0	93.4	93.8	55.2	49.3	38.4
IADLs	21.7	100.0	80.0	15.7	15.4	12.8
ADLs	9.6	35.2	100.0	7.3	6.5	5.9
Physical	58.3	71.7	75.6	100.0	47.9	38.9
Mental	17.2	23.1	22.1	15.8	100.0	12.7
Sensory	7.5	10.8	11.3	7.2	7.1	100.0
Category Disability Only	30.7	2.1	2.7	38.6	39.3	47.2

Table 7. Multiple Disabilities, Respondents Aged 65+

	Percent o	of respondents wit	h at least one disa	bility in each single	or dual disability	category
	Employment	IADLs	ADLs	Physical	Mental	Sensory
Employment	51.69	18.96	9.49	35.16	2.36	10.19
IADLs	18.96	25.54	10.43	19.83	1.55	6.12
ADLs	9.49	10.43	12.76	10.39	1.10	3.27
Physical	35.16	19.83	10.39	72.95	3.13	13.54
Mental	2.36	1.55	1.10	3.13	4.41	1.03
Sensory	10.19	6.12	3.27	13.54	1.03	24.81
Category Disability Only	10.52	1.02	0.05	26.61	0.60	7.86

Note: The first cell in the first column can be interpreted as the percent of disabled respondents with an employment disability.

The second cell in the first column can be interpreted as the percent of disabled respondents with both an employment and IADL disability.

Percent of respondents having a disability conditional on reporting a category disability

	Employment	IADLs	ADLs	Physical	Mental	Sensory
Employment	100.0	74.2	74.4	48.2	53.5	41.1
IADLs	36.7	100.0	81.7	27.2	35.1	24.7
ADLs	18.4	40.8	100.0	14.2	24.9	13.2
Physical	68.0	77.6	81.4	100.0	71.0	54.6
Mental	4.6	6.1	8.6	4.3	100.0	4.2
Sensory	19.7	24.0	25.6	18.6	23.4	100.0
Category Disability Only	20.4	4.0	0.4	36.5	13.6	31.7

Table 8. Underlying Indicators of Disability, Respondents Aged 18-64 (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation]	Impairmen	ıt.
		No	At least 1 of						
	Total	Disability	the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Employment									
Unable to work due to a disability	5.93	0.00	37.42	64.22	81.90	83.84	41.25	39.90	28.23
Limited in work due to a disability	3.30	0.00	20.85	35.78	11.51	9.82	8.02	15.25	10.22
IADLs									
Needs help with routine care needs	2.14	0.00	13.51	21.66	100.00	79.85	15.38	15.70	12.79
ADLs									
Needs help with personal care needs	1.07	0.00	5.94	9.55	35.12	100.00	6.47	7.28	5.90
Difficulty with bathing	0.56	NA	59.93	60.90	68.03	59.93	64.69	62.42	66.32
Difficulty with dressing	0.55	NA	58.58	60.43	64.40	58.58	61.39	62.25	55.76
Difficulty with eating	0.18	NA	18.88	19.55	22.37	18.88	20.77	17.74	29.56
Difficulty with getting into bed or chairs	0.37	NA	39.50	41.47	42.14	39.50	49.05	43.79	32.17
Difficulty with using the toilet	0.25	NA	26.92	28.21	30.05	26.92	23.36	26.86	20.78
Difficulty with getting around the home	0.33	NA	35.73	37.65	38.66	35.73	40.71	38.63	30.78
Mental									
Low Kessler index score ^a	77.37	83.33	45.67	45.11	37.61	38.81	0.00	45.56	52.97
Medium Kessler index score ^b	19.42	16.67	34.01	37.72	39.28	39.08	0.00	38.66	34.29
High Kessler index score ^c	3.22	0.00	20.31	17.17	23.12	22.10	100.00	15.79	12.75
Physical									
Difficulty with/can't									
Walk a quarter of a mile	4.01	0.00	22.68	27.16	46.46	49.16	21.88	36.79	18.45
Walk 10 steps without resting	3.34	0.00	18.38	22.55	39.89	44.64	18.97	29.81	14.78
Stand for 2 hours	5.86	0.00	33.73	37.97	55.92	56.48	30.32	54.74	24.68
Sit for 2 hours	2.86	0.00	16.86	18.61	27.40	28.48	21.06	27.35	15.47
Stoop, bend or kneel	5.73	0.00	33.86	34.97	49.24	57.48	28.54	54.91	23.85
Reach over your head	1.86	0.00	10.47	13.03	20.21	27.39	13.73	16.99	11.39
Grasp small objects	1.27	0.00	6.87	8.35	15.70	24.64	7.82	11.14	8.53
Lift or carry something as heavy as 10 lbs	2.75	0.00	15.41	19.69	37.23	49.16	18.18	24.99	12.26
Push or pull large objects	4.31	0.00	24.58	29.13	45.21	55.63	25.78	39.86	18.96

Table 8 (continued). Underlying Indicators of Disability, Respondents Aged 18-64 (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation]	Impairmen	nt
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Sensory									
$Blind^{\mathrm{d}}$	2.95	0.00	6.42	6.39	10.70	9.46	3.40	4.50	41.00
Deaf	0.19	0.00	1.12	0.89	1.47	0.42	0.52	0.58	9.81
Difficulty hearing without hearing aid	1.42	0.00	8.93	5.10	6.19	8.25	5.60	5.54	78.37

a) Kessler index score 0-3

b) Kessler index score 4-12

c) Kessler index score 13+

d) Respondents are only asked this question is they first answered that they had vision trouble. The numbers in this column are the responses conditional on the "lead-in"

Table 9. Underlying Indicators of Disability, Respondents Aged 65+ (Percentages)

			Disability	Participation I	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Employment									
Unable to work due to a disability	13.79	0.00	29.05	56.20	57.04	61.73	33.76	29.34	26.55
Limited in work due to a disability	10.74	0.00	22.64	43.80	17.19	12.67	19.68	18.85	14.53
IADLs									
Needs help with routine care needs	12.12	0.00	25.54	36.68	100.00	81.75	35.21	27.19	24.67
ADLs									
Needs help with personal care needs	6.06	0.00	12.76	18.37	40.85	100.00	24.84	14.24	13.16
Difficulty with bathing	77.79	NA	77.79	78.13	82.56	77.79	82.84	78.15	77.86
Difficulty with dressing	56.74	NA	56.74	55.51	61.95	56.74	60.91	55.64	50.57
Difficulty with eating	26.64	NA	26.64	28.07	30.66	26.64	16.21	24.65	21.72
Difficulty with getting into bed or chairs	47.99	NA	47.99	45.44	49.27	47.99	54.29	47.75	44.05
Difficulty with using the toilet	36.21	NA	32.21	34.16	38.77	36.21	54.89	34.74	35.33
Difficulty with getting around the home	40.99	NA	40.99	40.02	44.66	40.99	59.57	39.22	45.93
Mental									
Low Kessler index score ^a	80.45	91.05	68.71	64.98	59.11	50.64	0.00	65.95	68.35
Medium Kessler index score ^b	17.45	8.94	26.87	30.47	34.80	40.77	0.00	29.76	27.49
High Kessler index score ^c	2.10	0.00	4.41	4.57	6.09	8.60	100.00	4.28	4.17
Physical									
Difficulty with/can't									
Walk a quarter of a mile	18.84	0.00	39.70	43.49	55.75	60.12	49.97	54.42	32.39
Walk 10 steps without resting	13.89	0.00	29.26	33.76	49.97	57.21	44.50	40.10	23.38
Stand for 2 hours	21.85	0.00	46.04	48.42	59.60	64.91	55.32	63.11	36.87
Sit for 2 hours	5.13	0.00	10.81	11.57	15.41	19.73	13.25	14.81	9.32
Stoop, bend or kneel	21.18	0.00	44.62	44.87	56.09	61.30	53.52	61.16	33.87
Reach over your head	5.84	0.00	12.31	15.11	23.33	31.75	19.82	16.87	10.82
Grasp small objects	4.83	0.00	10.17	11.09	16.08	26.36	23.21	13.94	11.18
Lift or carry something as heavy as 10 lbs	10.76	0.00	22.66	27.21	44.53	56.21	39.91	31.06	17.82
Push or pull large objects	14.49	0.00	30.53	34.04	47.63	55.28	47.02	41.85	24.16

Table 9 (continued). Underlying Indicators of Disability, Respondents Aged 65+ (Percentages)

			Disability	Participation I	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Sensory				1 0				J	
$Blind^{d}$	5.62	0.00	7.59	7.98	10.86	12.56	4.50	6.10	23.97
Deaf	1.00	0.00	2.11	2.09	2.23	3.72	0.58	2.09	8.51
Difficulty hearing without hearing aid	10.03	0.00	21.13	15.96	18.55	18.20	21.44	15.40	85.20

a) Kessler index score 0-3

b) Kessler index score 4-12

c) Kessler index score 13+

d) Respondents are only asked this question is they first answered that they had vision trouble. The numbers in this column are the responses conditional on the "lead-in" question.

Table 10. Health Status, Respondents Aged 18-64 (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Self-reported health status									
Excellent/Very Good	66.86	74.24	27.68	17.82	12.34	9.89	26.53	21.78	37.40
Good	23.67	21.81	33.54	31.14	24.11	20.86	26.00	31.75	31.04
Fair/Poor	9.39	3.89	38.58	50.79	63.18	69.24	46.98	46.26	31.13
Don't know/refused	0.09	0.07	0.19	0.25	0.36	0.00	0.48	0.21	0.42
Health status compared to 12 mor	nths ago								
Better	18.17	17.85	19.89	20.46	18.27	17.46	14.67	17.42	20.02
About the Same	73.77	77.64	53.19	48.76	41.80	43.15	46.33	49.48	58.94
Worse	7.74	4.21	26.51	30.30	39.22	38.72	38.48	32.78	20.57
Don't know/refused	0.32	0.30	0.42	0.47	0.70	0.67	0.53	0.32	0.47
Percentage having difficulty perfe	- C								
activity and having a health probl									
Vision or Seeing	2.91	1.20	4.56	5.98	7.73	7.14	10.45	5.04	12.51
Hearing	0.72	0.05	1.37	1.90	3.83	2.71	2.73	1.33	12.09
Arthritis	27.07	21.04	32.89	32.54	35.97	31.47	31.29	36.53	35.63
Back or Neck	30.17	27.02	33.21	35.20	32.76	31.68	33.95	35.33	32.90
Fractures, Bone Injury	14.49	14.86	14.14	14.11	10.44	10.68	12.44	15.45	11.87
Other Injury	3.77	3.20	4.32	4.80	3.99	3.53	2.87	4.66	5.55
Heart	4.25	1.46	6.95	9.54	11.97	12.95	6.67	7.55	7.59
Stroke	1.57	0.11	2.97	4.62	8.05	9.67	3.87	3.26	4.22
Hypertension	3.51	1.14	5.79	6.35	8.35	12.53	8.86	6.62	7.97
Diabetes	3.38	0.80	5.86	7.38	8.97	10.55	6.88	6.70	8.37
Lung	6.94	4.15	9.64	12.17	14.53	14.69	14.95	10.58	14.25
Cancer	1.00	0.36	1.61	2.31	3.08	4.89	2.63	1.68	2.77
Birth Defect	0.60	0.36	0.83	1.29	1.71	2.55	0.40	0.90	1.81
MR	0.58	0.10	1.03	1.60	3.30	5.89	1.62	0.63	1.43
Other Developmental	0.32	0.07	0.57	0.67	1.81	3.33	0.69	0.55	1.07
Senility	0.12	0.01	0.23	0.28	0.24	0.00	0.20	0.17	0.72
Depression, Anxiety	8.28	3.49	12.90	16.12	18.30	17.74	40.53	11.56	16.43

Table 10 (continued). Health Status, Respondents Aged 18-64 (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation		Impairment	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Percentage having difficulty performing	ng an								
activity and having a health problem ^a									
Weight	7.28	8.46	6.14	5.68	9.03	10.60	8.91	6.35	7.15
Missing Limb	0.23	0.03	0.42	0.70	0.61	0.88	0.00	0.45	0.97
Other Musculoskeletal	12.80	13.69	11.94	11.32	14.88	11.91	10.42	12.60	12.24
Other Circulatory	2.21	1.60	2.80	3.24	3.71	5.08	2.89	3.14	3.31
Other Endocrine	0.57	0.33	0.79	1.13	1.65	2.09	2.31	0.87	0.73
Other Nervous	5.41	3.11	7.63	9.71	17.44	22.32	7.61	8.38	8.55
Digestive	1.05	0.38	1.70	1.76	2.38	2.12	2.27	1.77	2.19
Genitourinary	1.15	0.53	1.74	2.25	3.84	2.69	1.41	1.93	4.04
Skin	0.10	0.10	0.11	0.19	0.15	0.00	0.13	0.14	0.26
Blood	0.11	0.03	0.19	0.20	0.36	0.82	0.38	0.19	0.00
Tumors, Cysts	0.21	0.09	0.33	0.34	0.83	0.54	0.50	0.37	0.84
Alcohol and Drugs	0.03	0.00	0.06	0.10	0.25	0.58	0.28	0.04	0.00
Other Mental	0.30	0.30	0.29	0.46	0.92	0.41	0.47	0.16	0.00
Effects from Surgery	0.51	0.22	0.78	0.60	1.50	0.72	0.39	0.80	0.87
Old Age	0.58	1.00	0.18	0.08	0.12	0.28	0.00	0.11	0.63
Fatigue	0.79	1.13	0.46	0.57	0.66	0.17	1.16	0.49	0.78
Pregnancy-Related	1.01	1.24	0.79	0.16	0.42	0.00	1.50	0.77	0.00
BMI									
Underweight	1.15	1.11	1.35	1.74	3.21	5.16	2.41	1.41	1.17
Normal	38.43	40.27	28.66	29.19	27.88	27.01	33.97	24.34	26.84
Overweight	32.89	33.50	29.65	28.19	23.22	21.71	29.90	28.43	32.91
Mild Obesity	14.51	13.67	19.02	19.14	17.17	16.80	15.19	19.84	20.60
Moderate Obesity	5.06	4.33	8.98	9.71	11.49	10.30	7.83	10.59	10.45
Severe Obesity	3.02	2.24	7.14	7.33	10.89	11.60	6.07	9.84	5.59
Missing	4.93	4.88	5.20	4.70	6.15	7.41	4.63	5.48	2.44

a) Only those who answered that they had some difficulty performing a particular task were asked about the underlying condition causing that difficulty.

The "non-disabled" respondents who were asked this question are the small number of respondents who had a low level of difficulty with a certain task.

Table 11. Health Status, Respondents Aged 65+ (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation		Impairmen	t
		No	At least 1						
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Self-reported health status									
Excellent/Very Good	38.09	53.13	21.45	16.33	10.26	8.22	19.42	17.85	23.93
Good	34.99	35.63	34.27	30.63	26.99	22.29	20.92	33.50	33.26
Fair/Poor	26.72	11.11	44.00	52.63	62.12	69.30	59.66	48.37	42.71
Don't know/refused	0.21	0.14	0.28	0.41	0.63	0.18	0.00	0.28	0.10
Health status compared to 12 month	ns ago								
Better	13.24	12.19	14.39	15.07	13.02	13.90	14.59	14.57	11.15
About the Same	72.28	81.89	61.64	57.11	49.78	42.71	39.00	58.51	62.62
Worse	14.05	5.54	23.47	27.18	36.50	42.68	46.41	26.34	25.74
Don't know/refused	0.44	0.38	0.50	0.65	0.70	0.71	0.00	0.58	0.49
Percentage having difficulty perform	ning an								
activity and having a health problem	n ^a								
Vision or Seeing	8.00	2.29	10.60	13.10	20.72	20.01	24.66	11.05	18.43
Hearing	3.31	0.91	4.40	5.00	6.35	4.53	12.70	3.90	15.20
Arthritis	44.32	41.27	45.71	46.72	42.39	35.25	56.74	47.77	43.03
Back or Neck	18.22	15.03	19.67	19.49	17.54	12.59	22.03	20.00	18.98
Fractures, Bone Injury	10.55	8.18	11.63	11.29	13.27	14.46	11.47	12.60	11.87
Other Injury	2.28	2.37	2.24	3.27	2.22	3.20	3.81	2.26	2.10
Heart	11.89	5.09	14.99	16.63	18.68	23.25	17.08	16.26	16.00
Stroke	4.52	1.03	6.11	8.07	15.32	18.40	8.74	6.44	7.14
Hypertension	5.88	2.63	7.37	8.08	9.85	12.04	11.38	8.06	7.01
Diabetes	5.25	2.21	6.63	8.53	9.24	10.52	14.92	7.40	6.82
Lung	7.98	5.09	9.30	12.45	8.76	6.66	9.76	9.29	11.15
Cancer	2.50	0.74	3.30	4.24	5.57	7.33	8.32	3.78	3.67
Birth Defect	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	0.04	0.00	0.06	0.12	0.00	0.00	0.00	0.08	0.00
Other Developmental	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.03	0.00
Senility	1.99	0.90	2.49	3.17	5.76	9.50	8.30	2.29	4.07
Depression, Anxiety	2.45	0.95	3.14	3.42	4.87	5.09	23.10	3.17	3.14

Table 11 (continued). Health Status, Respondents Aged 65+ (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation		Impairmen	t
		No	At least 1						
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Percentage having difficulty performing	ig an								
activity and having a health problem ^a									
Weight	3.35	3.27	3.38	3.05	2.27	2.60	6.15	3.85	3.95
Missing Limb	0.53	0.00	0.77	1.21	1.30	1.65	0.42	0.69	0.52
Other Musculoskeletal	9.40	9.18	9.50	9.61	8.46	5.06	4.28	9.99	8.47
Other Circulatory	4.03	3.82	4.13	4.87	4.74	5.78	1.93	4.57	5.13
Other Endocrine	0.47	0.12	0.63	0.94	1.17	1.46	0.95	0.67	0.67
Other Nervous	3.36	2.10	3.94	5.48	5.82	8.22	5.39	3.99	3.55
Digestive	0.70	0.68	0.71	0.87	0.86	0.93	0.00	0.86	0.96
Genitourinary	1.14	0.42	1.48	2.27	3.22	4.94	2.49	1.61	1.28
Skin	0.08	0.00	0.12	0.05	0.10	0.00	0.66	0.14	0.13
Blood	0.10	0.16	0.07	0.00	0.00	0.00	0.00	0.09	0.00
Tumors, Cysts	0.05	0.00	0.07	0.13	0.03	0.07	0.00	0.08	0.00
Alcohol and Drugs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Mental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Effects from Surgery	0.34	0.00	0.50	0.64	0.84	1.44	0.84	0.46	0.28
Old Age	4.19	6.47	3.14	3.40	5.02	5.09	1.32	2.87	4.02
Fatigue	0.79	0.69	0.83	0.80	0.90	1.37	0.00	0.71	1.22
Pregnancy-Related	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BMI									
Underweight	1.71	1.24	2.23	2.52	4.05	4.60	3.96	2.74	2.83
Normal	37.13	39.16	34.88	34.71	39.02	43.20	36.54	33.28	34.54
Overweight	35.81	38.71	32.59	31.30	24.37	24.59	31.08	30.03	38.43
Mild Obesity	14.70	13.89	15.60	16.24	13.44	11.95	18.43	16.87	14.71
Moderate Obesity	4.41	2.45	6.58	6.53	6.07	5.77	3.41	7.79	4.37
Severe Obesity	2.00	0.68	3.46	3.35	4.72	2.80	4.24	4.44	1.19
Missing	4.24	3.87	4.65	5.34	8.33	7.08	2.35	4.84	3.93

a) Only those who answered that they had some difficulty performing a particular task were asked about the underlying condition causing that difficulty.

The "non-disabled" respondents who were asked this question are the small number of respondents who had a low level of difficulty with a certain task.

Table 12. Health Care Utilization, Respondents Aged 18-64 (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairmen	t
	7D 4 1	No Disability	At least 1	Elov	IADI «	A D.I	N/ / 1	DI ' I	C.
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Usual place to go when sick Clinic or health center	16 11	15.88	19.24	20.66	18.50	15.47	23.07	18.54	15.88
	16.44								
HMO	78.97	79.77	75.01	73.01	76.34	80.01	68.67	76.52	78.35
Hospital emergency room	1.19	1.14	1.40	1.12	0.50	0.52	3.05	1.24	1.39
Hospital outpatient department	1.56	1.36	2.57	3.33	3.40	3.48	3.08	2.30	2.95
Other	0.80	0.67	1.42	1.54	1.11	0.52	1.69	1.10	1.43
Doesn't go to one place	0.94	1.07	0.32	0.28	0.08	0.00	0.44	0.29	0.00
Don't know/refused	0.10	0.11	0.03	0.05	0.07	0.00	0.00	0.02	0.00
Place to go for routine or preventive care, if	different	from usual							
Doesn't receive preventive care anywhere	54.06	54.66	49.76	48.98	51.14	50.95	52.85	43.62	52.26
Clinic or health center	9.57	9.50	10.07	9.34	12.11	11.51	11.78	12.26	7.32
НМО	19.92	19.68	21.65	22.40	19.76	16.80	18.84	24.02	21.56
Hospital emergency room	2.41	2.36	2.81	3.24	1.76	3.11	2.95	3.03	4.12
Hospital outpatient department	1.03	1.01	1.20	1.40	1.99	11.51	0.90	1.57	1.58
Other	1.62	1.45	2.84	3.95	1.39	4.13	2.57	3.32	2.56
Doesn't go to one place most often	7.83	7.89	7.39	5.78	6.10	0.00	7.15	8.04	4.75
Don't know/refused	3.55	3.45	4.28	4.90	5.75	1.99	2.96	4.12	5.84
Seen/talked to in the past 12 months									
Mental Health Professional	6.81	4.56	18.79	24.10	31.82	29.48	36.10	17.12	14.41
Eye Doctor	32.60	31.26	39.74	41.61	45.54	39.72	33.25	42.62	44.10
Foot Doctor	4.76	3.66	10.55	10.64	14.11	18.14	9.34	12.57	11.99
Chiropractor	8.47	7.73	12.41	11.85	9.53	7.31	11.34	14.02	10.12
Therapist (PT/OT)	6.90	4.50	19.65	22.25	29.51	38.31	17.32	25.30	19.01
Nurse Practitioner	13.44	12.08	20.64	22.79	26.99	21.83	19.97	22.52	19.21
OB/GYN	50.50	52.43	41.49	38.79	36.31	30.64	42.81	40.79	43.59
Medical Specialist	22.77	18.40	46.01	54.53	63.89	66.43	40.54	52.78	40.91
General Doctor	64.10	61.50	77.89	81.01	85.47	89.23	71.31	82.27	74.40

Table 12 (continued). Health Care Utilization, Respondents Aged 18-64 (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Number of times in ER in past 12 months									
0	79.4	82.59	62.44	58.05	52.03	48.11	51.02	60.65	66.13
At least 1 time	19.66	16.46	36.58	40.79	47.07	50.87	48.33	38.71	33.08
1	12.89	11.75	18.93	19.28	15.80	15.29	20.06	18.81	18.74
2-3	4.9	3.74	11.02	12.57	18.15	19.99	16.45	11.91	8.02
4-9	1.63	0.88	5.57	7.37	10.22	12.57	9.36	6.61	5.43
10+	0.24	0.09	1.06	1.57	2.90	3.02	2.46	1.38	0.89
Don't know/refused	0.95	0.94	0.97	1.16	0.89	1.03	0.65	0.65	0.78
Received at home care in past year?	0.94	0.36	3.99	5.68	14.40	26.54	4.10	5.09	3.73
Number of months received at home care									
1-3 months	71.25	95.35	59.53	54.88	43.24	33.72	51.61	60.81	55.04
4-6 months	6.88	0.00	10.22	10.50	10.48	12.47	12.43	8.36	6.83
7-9 months	0.54	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-12 months	21.12	3.00	29.93	34.25	45.63	53.00	35.95	30.43	38.13
Don't know/refused	0.21	0.00	0.32	0.38	0.65	0.80	0.00	0.40	0.00
Total number of home visits in past 12 me	onths								
1	20.12	47.19	6.96	3.74	3.24	0.84	12.01	6.30	3.37
2-3	15.03	25.36	10.01	7.36	2.72	1.77	10.40	9.36	16.34
4-9	22.41	10.43	28.23	31.28	22.44	17.94	14.98	27.52	21.64
10+	42.24	17.02	54.49	57.24	70.95	78.65	62.62	56.42	0.00
Don't know/refused	0.21	0.00	0.32	0.38	0.65	0.80	0.00	0.40	58.65
Number of office visits in the past 12 mon	ths								
0	20.60	22.58	10.05	7.14	4.13	2.29	15.34	6.12	14.20
At least 1 time	77.56	75.6	87.83	90.52	94.16	96.24	82.21	92.08	84.16
1	17.68	19.76	6.59	5.06	3.34	1.83	5.55	4.75	10.22
2-3	25.61	27.33	16.44	13.75	10.80	15.99	15.46	14.33	15.06
4-9	21.53	19.88	30.27	29.86	26.82	22.76	20.62	31.74	29.23
10+	12.74	8.63	34.53	41.85	53.20	55.66	40.58	41.26	29.65
Don't know/refused	1.86	1.81	2.12	2.34	1.72	1.47	2.46	1.80	1.64

Table 12 (continued). Health Care Utilization, Respondents Aged 18-64 (Percentages)

			Disability	Participation F	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Health care delayed due to cost in the past 12 months	9.20	6.86	21.62	24.52	26.20	23.77	31.20	22.09	20.00
Needed, didn't receive health care due to cost (past year)	6.74	4.73	17.41	19.90	22.33	17.72	25.16	17.91	15.62
Can't afford mental care/counseling in past 12 months	2.34	1.26	8.12	8.35	10.34	7.91	20.38	7.38	6.57
Was in hospital overnight in the past 12 months	8.22	6.02	19.94	24.98	33.37	40.44	22.57	22.96	14.84
Number of nights in hospital									
1	24.09	27.42	18.73	17.06	10.61	7.34	13.64	18.15	12.18
2-9	62.32	66.98	54.84	51.60	44.29	46.32	62.09	53.69	69.47
10-59	12.01	4.88	23.42	27.26	39.09	40.40	20.89	24.93	14.74
60+	0.88	0.27	1.86	2.52	2.73	3.30	1.36	1.90	0.80
Don't know/refused	0.71	0.45	1.14	1.56	3.27	2.64	2.02	1.32	2.81
Received care 10+ times in the past 12 months	10.99	6.57	34.47	42.63	61.27	63.39	37.39	40.06	27.72

Table 13. Health Care Utilization, Respondents Aged 65+ (Percentages)

			Disability	Participation F	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Usual place to go when sick									
Clinic or health center	11.39	11.59	11.17	11.48	10.49	7.96	14.29	10.03	12.15
НМО	85.49	85.89	85.05	83.79	85.54	87.70	83.53	86.23	84.29
Hospital emergency room	0.36	0.14	0.58	0.79	0.83	0.17	0.00	0.63	0.72
Hospital outpatient department	2.10	1.76	2.46	3.41	2.72	3.51	0.97	2.52	1.65
Other	0.30	0.14	0.48	0.26	0.24	0.29	1.21	0.47	0.83
Doesn't go to one place	0.31	0.46	0.14	0.17	0.00	0.00	0.00	0.09	0.14
Don't know/refused	0.06	0.00	0.12	0.09	0.18	0.36	0.00	0.03	0.22
Place to go for routine or preventive care, i	f different f	rom usual							
Doesn't receive preventive care anywhere	32.09	38.00	23.08	19.04	25.20	28.38	22.13	20.62	33.20
Clinic or health center	11.28	10.26	12.83	13.38	11.72	12.78	13.92	13.84	13.08
НМО	34.35	32.54	37.13	38.53	31.90	31.25	53.49	42.69	20.89
Hospital emergency room	1.93	2.23	1.48	0.00	0.00	0.00	0.00	2.29	0.00
Hospital outpatient department	2.40	2.07	2.92	2.91	2.14	1.73	0.00	1.81	7.10
Other	2.68	1.37	4.67	5.36	4.75	12.03	0.00	4.40	3.91
Doesn't go to one place most often	5.07	5.02	5.15	4.70	4.40	2.11	0.00	3.22	6.11
Don't know/refused	10.19	8.52	12.74	16.06	19.90	11.71	10.45	11.13	15.71
Seen/talked to in the past 12 months									
Mental Health Professional	2.66	1.15	4.34	5.11	7.74	8.96	19.00	4.40	5.15
Eye Doctor	55.64	52.88	58.69	56.95	56.58	54.24	53.17	59.60	59.11
Foot Doctor	14.73	9.11	20.95	20.45	24.80	25.14	24.01	22.71	20.94
Chiropractor	7.14	6.65	7.68	7.46	6.22	5.51	6.18	8.47	6.22
Therapist (PT/OT)	12.38	6.63	18.74	19.41	25.87	31.29	26.50	20.50	19.64
Nurse Practitioner	11.54	8.79	14.58	15.76	20.64	20.26	10.87	15.44	14.94
OB/GYN	19.28	23.53	15.08	14.76	12.37	11.51	15.17	14.57	11.28
Medical Specialist	43.21	34.89	52.43	54.40	55.56	57.94	50.64	55.01	52.49
General Doctor	83.64	79.26	88.49	89.36	90.51	89.78	87.55	90.13	87.01

Table 13 (continued). Health Care Utilization, Respondents Aged 65+ (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Number of times in ER in past 12 months	S								
0	75.14	82.92	66.52	64.07	56.12	47.34	57.42	64.75	66.82
At least 1 time	23.65	15.9	32.22	34.36	42.19	50.35	39.31	34.01	32.05
1	15.41	11.51	19.72	20.57	21.65	24.95	21.34	20.01	19.43
2-3	6.23	3.63	9.12	9.49	13.61	17.00	13.74	9.99	9.39
4-9	1.64	0.61	2.77	3.40	5.45	6.60	3.48	3.32	2.81
10+	0.37	0.15	0.61	0.90	1.48	1.80	0.75	0.69	0.42
Don't know/refused	1.22	1.19	1.25	1.57	1.69	2.32	3.28	1.23	1.14
Receive at home care in past year?	6.52	1.06	12.58	15.63	31.39	46.07	20.19	13.98	13.29
Number of months received at home care)								
1-3 months	61.32	88.24	58.81	52.47	49.20	47.90	78.63	58.77	46.69
4-6 months	9.80	9.59	9.82	11.91	10.31	10.92	2.60	10.02	12.94
7-9 months	2.79	0.00	3.05	1.88	3.02	2.04	0.00	2.88	4.45
10-12 months	23.94	2.17	25.97	30.46	34.64	36.93	11.36	25.44	32.69
Don't know/refused	2.15	0.00	2.35	3.29	2.83	2.20	7.41	2.89	3.24
Total number of home visits in past 12 m	onths								
1	7.94	13.49	7.42	5.20	5.00	9.32	7.31	6.85	5.56
2-3	10.38	14.88	9.96	7.26	6.35	5.72	10.27	10.79	8.96
4-9	29.64	43.45	28.35	29.28	24.29	19.90	24.62	27.31	23.77
10+	49.40	24.42	51.73	54.66	60.56	61.91	56.35	52.13	58.56
Don't know/refused	2.65	3.76	2.54	3.60	3.80	3.16	1.46	2.92	3.15
Number of office visits in the past 12 mor	nths								
0	8.56	12.07	4.67	4.77	5.50	6.15	6.75	3.51	6.26
At least 1 time	88.84	85.9	92.09	90.44	89.13	88.36	88.42	93.39	90.67
1	9.30	12.43	5.83	5.30	5.61	5.34	10.77	5.22	6.65
2-3	22.01	27.20	16.26	13.70	8.79	10.62	14.24	14.85	13.55
4-9	37.62	36.03	39.39	38.90	35.55	31.16	32.68	40.32	38.56
10+	19.91	10.24	30.61	32.54	39.18	41.24	30.73	33.00	31.91
Don't know/refused	2.60	2.03	3.23	4.78	5.37	5.49	4.83	3.11	3.06

Table 13 (continued). Health Care Utilization, Respondents Aged 65+ (Percentages)

			Disability	Participation F	Restriction	Activity Limitation]	Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Health care delayed due to cost in the past 12 months	3.94	2.24	5.82	6.22	7.00	8.13	18.21	6.64	5.75
Needed, didn't receive health care due to cost (past year)	2.71	1.28	4.30	4.97	5.86	5.34	11.49	4.69	3.62
Can't afford mental care/counseling in past 12 months	0.56	0.35	0.80	0.65	1.05	0.82	5.92	0.88	1.02
Was in hospital overnight in the past 12 months	19.86	11.72	28.88	32.21	40.71	45.64	34.17	30.81	26.10
Number of nights in hospital									
1	14.85	21.25	11.97	11.80	7.14	7.53	12.02	11.57	10.79
2-9	58.86	63.03	56.99	55.33	50.26	42.17	51.60	55.69	54.21
10-59	22.56	13.66	26.56	26.16	33.90	41.72	32.17	28.27	31.12
60+	1.86	0.38	2.52	3.56	5.82	5.80	4.20	2.17	2.79
Don't know/refused	1.88	1.67	1.97	3.15	2.89	2.80	0.00	2.31	1.10
Received care 10+ times in the past 12 months	21.34	10.30	33.56	38.89	48.48	49.44	36.81	36.73	32.42

Table 14. Health Insurance, Respondents Aged 18-64 (Percentages)

			Disability	Participation I	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
All Families		2 1500 2110 9	01 0110 0			11225	1,1011001	1 11 51001	201201
Amount family spent on health car	e in past 12 months	a							
\$0	8.76	8.59	9.69	11.55	10.80	11.96	14.33	9.23	8.31
Less than \$500	43.39	45.25	33.50	31.67	31.89	32.40	32.81	31.62	33.73
\$500-\$1,999	30.12	30.25	29.42	28.77	25.49	22.25	25.61	29.66	31.20
\$2,000-\$2,999	7.69	7.06	11.02	10.91	11.36	9.51	10.76	12.37	9.51
\$3,000-\$4,999	4.22	3.71	6.95	7.40	8.97	8.12	5.95	7.37	8.07
\$5,000 and greater	3.39	2.83	6.40	6.80	7.51	11.59	8.19	6.73	5.38
Don't know/refused	2.42	2.31	3.02	2.89	3.97	4.17	2.35	3.03	3.79
Multi-person Families									
Amount family spent on health car	e in past 12 months	a							
\$0	6.69	6.55	7.47	8.36	6.14	5.68	12.11	7.18	6.40
Less than \$500	41.16	42.91	31.43	28.88	30.55	31.90	31.41	29.61	32.24
\$500-\$1,999	32.57	32.84	31.09	30.97	27.47	25.02	27.20	31.03	33.29
\$2,000-\$2,999	8.53	7.92	11.95	12.31	13.01	10.61	11.59	13.54	9.02
\$3,000-\$4,999	4.70	4.15	7.80	8.65	10.73	9.44	6.06	8.13	9.14
\$5,000 and greater	3.78	3.19	7.05	7.67	8.03	13.24	9.39	7.35	5.74
Don't know/refused	2.57	2.45	3.21	3.16	4.08	4.10	2.24	3.15	4.17
Single Person Families									
Amount family spent on health car	e in past 12 months	a							
\$0	19.73	19.89	19.08	21.77	23.79	31.29	23.30	17.96	17.42
Less than \$500	55.19	58.23	42.28	40.65	35.63	33.97	38.46	40.19	40.81
\$500-\$1,999	17.11	15.89	22.32	21.71	19.99	13.71	19.22	23.79	21.26
\$2,000-\$2,999	3.25	2.34	7.10	6.43	6.78	6.13	7.40	7.37	11.87
\$3,000-\$4,999	1.67	1.27	3.37	3.40	4.06	4.04	5.47	4.10	2.99
\$5,000 and greater	1.35	0.80	3.66	3.98	6.09	6.48	3.37	4.05	3.70
Don't know/refused	1.70	1.58	2.20	2.05	3.67	4.39	2.79	2.53	1.95

Table 14 (continued). Health Insurance, Respondents Aged 18-64 (Pecentages)

			Disability	Participation 1	Restriction	Activity		Impairmen	t
						Limitation		P	
	7 5. 4. 1	No	At least 1	.	T. D.	4.50	3.5 . 3	DI 1 1	G
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
No health insurance in past 12 months, if currently insured	5.33	5.00	7.08	6.36	5.72	4.71	10.58	6.43	5.60
Number of months without health insurance	given a p	eriod withou	ut health ins	surance in past 1	2 months				
1-3 months	41.54	42.18	39.13	39.00	33.22	52.02	33.68	42.07	28.70
4-6 months	27.34	26.83	29.29	34.10	39.36	25.75	29.62	23.50	37.15
7-9 months	12.37	12.49	11.91	11.62	13.33	0.00	16.68	12.30	13.01
10-12 months	18.05	17.63	19.60	15.15	13.51	22.23	20.02	22.02	21.15
Don't know/refused	0.70	0.86	0.07	0.13	0.58	0.00	0.00	0.12	0.00
Source of health insurance									
Private only	71.77	75.93	49.65	38.78	28.12	26.82	34.56	50.43	54.87
Public only	9.07	5.57	27.67	38.76	50.26	54.35	34.74	28.45	22.29
Public and private	1.59	1.03	4.56	6.41	9.04	7.85	3.49	5.35	5.33
Single service plan	0.11	0.08	0.27	0.29	0.00	0.00	0.14	0.33	0.00
Uninsured	16.95	16.84	17.53	15.46	11.95	9.99	26.74	15.21	17.35
Unknown	0.52	0.56	0.32	0.29	0.63	0.99	0.32	0.22	0.15

a) Family medical spending excludes costs associated with insurance premiums, over-the-counter medicine, or reimbursed costs

Table 15. Health Insurance, Respondents Aged 65+ (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation		Impairment	
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
All Families									
Amount family spent on health	-	2 months ^a							
\$0	7.68	8.12	7.20	7.36	8.09	10.20	5.41	7.55	7.53
Less than \$500	37.45	40.88	33.65	33.26	33.37	23.34	39.08	31.40	30.58
\$500-\$1,999	31.28	29.79	32.92	32.35	29.04	30.98	23.19	33.71	34.45
\$2,000-\$2,999	9.06	8.65	9.50	8.71	9.45	10.95	8.78	10.34	9.06
\$3,000-\$4,999	5.59	5.08	6.15	5.94	5.36	8.17	9.40	6.75	7.72
\$5,000 and Greater	5.13	4.25	6.11	6.62	8.24	10.37	10.80	6.03	5.62
Don't know/refused	3.81	3.26	4.46	5.75	6.46	5.98	3.35	4.22	5.03
Multi-person Families									
Amount family spent on health	care in past 1	2 months ^a							
\$0	5.18	5.44	4.85	4.06	3.90	6.87	4.44	5.18	5.32
Less than \$500	32.26	36.56	26.90	26.49	24.19	17.02	33.95	24.27	24.15
\$500-\$1,999	34.18	32.01	36.90	36.31	33.55	35.18	21.14	37.88	38.53
\$2,000-\$2,999	10.86	10.53	11.28	10.76	12.61	12.41	12.65	12.25	10.51
\$3,000-\$4,999	7.03	6.40	7.82	7.58	7.16	10.92	12.14	8.57	9.39
\$5,000 and Greater	6.76	5.63	8.18	9.26	12.65	13.17	12.74	7.86	7.20
Don't know/refused	3.71	3.44	4.07	5.53	5.93	4.43	2.94	3.99	4.90
Single Person Families									
Amount family spent on health	care in past 1	2 months ^a							
\$0	12.84	14.72	11.21	12.17	12.92	17.91	7.14	11.52	11.78
Less than \$500	48.11	51.53	45.16	43.10	43.92	37.96	48.18	43.34	42.96
\$500-\$1,999	25.31	24.35	26.14	26.60	23.84	21.21	26.83	26.73	26.61
\$2,000-\$2,999	5.34	4.03	6.48	5.72	5.81	7.58	1.89	7.13	6.28
\$3,000-\$4,999	2.61	1.82	3.30	3.56	3.28	1.83	4.53	3.71	4.51
\$5,000 and Greater	1.78	0.84	2.59	2.79	3.17	3.90	7.35	2.95	2.59
Don't know/refused	4.00	2.70	5.12	6.06	7.07	9.53	4.08	4.62	5.27

Table 15 (continued). Health Insurance, Respondents Aged 65+ (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation		Impairment	;
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
No health insurance in past 12 months, if currently insured	0.41	0.46	0.35	0.35	0.18	0.00	0.00	0.38	0.11
Number of months without health	insurance	given a perio	d without he	ealth insurance i	n past 12 m	onths			
1-3 months	22.70	22.82	22.53	9.92	37.65	NA	NA	12.05	100.00
4-6 months	6.71	2.86	12.36	0.00	0.00	NA	NA	15.50	0.00
7-9 months	22.35	13.21	35.76	46.50	62.35	NA	NA	44.85	0.00
10-12 months	48.24	61.12	29.34	43.58	0.00	NA	NA	27.60	0.00
Don't know/refused	0.00	0.00	0.00	0.00	0.00	NA	NA	0.00	0.00
Source of health insurance									
Private only	5.00	6.56	3.28	2.83	2.17	1.88	2.43	2.69	3.30
Public only	37.43	34.90	40.23	42.61	50.24	52.73	42.25	39.79	37.77
Public and private	56.15	56.85	55.36	53.38	46.35	43.79	51.62	56.53	57.64
Single service plan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uninsured	1.14	1.46	0.78	0.77	1.07	1.38	3.71	0.61	0.80
Unknown	0.25	0.23	0.28	0.30	0.18	0.22	0.00	0.29	0.49

a) Family medical spending excludes costs associated with insurance premiums, over-the-counter medicine, or reimbursed costs

Table 16. Special Equipment, Respondents Aged 18-64 (Percentages)

			Disability	Participation I	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Have health care problem that requires special equipment	3.07	0.50	16.76	24.07	43.01	55.04	14.80	23.10	19.91
Now use special equipment/assistance device	3.34	0.82	16.72	23.02	42.65	52.08	14.68	22.53	23.48
Know of special equipment that would help	1.88	0.48	9.29	12.87	24.34	26.47	10.09	12.58	15.60
Have difficulty without this special device									
Always	28.05	14.39	31.80	31.90	38.19	41.04	41.66	32.96	37.93
Often	30.82	13.56	35.57	35.25	34.73	32.14	41.03	35.33	35.84
Sometimes	24.54	33.47	22.09	21.94	18.91	14.69	12.80	22.99	7.44
Rarely	9.36	19.38	6.60	7.55	7.31	9.60	1.50	5.46	11.60
Never	5.54	18.03	2.11	1.09	0.43	1.63	0.00	1.46	5.63
Don't Know	1.69	1.18	1.83	2.26	0.43	0.91	3.00	1.80	1.56
Ever worn a hearing aid	0.98	0.41	4.02	3.11	3.74	3.02	1.83	2.63	29.77
Frequency of wearing a hearing aid									
Always	32.48	20.03	39.18	34.81	22.51	12.80	28.57	39.04	43.78
Most of the time	11.53	5.81	14.61	15.55	33.84	43.91	11.41	17.52	14.48
Some of the time	24.39	33.04	19.74	15.21	3.54	15.68	12.40	22.91	20.00
None of the time	31.37	40.47	26.47	34.44	40.12	27.61	47.62	20.53	21.73
Don't know	0.23	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 17. Special Equipment, Respondents Aged 65+ (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation]	Impairmen	it
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Have health care problem that requires special equipment	18.16	2.14	35.91	44.60	67.51	80.80	37.70	43.12	36.58
Now use special equipment/assistance device	18.15	3.21	34.69	42.78	61.06	72.09	37.53	40.36	40.06
Know of special equipment that would help	4.08	1.11	7.37	9.88	12.56	15.83	14.71	8.45	8.35
Have difficulty without this special device									
Always	29.12	7.06	32.81	35.31	38.73	38.34	45.86	33.17	31.85
Often	24.91	31.13	23.87	23.70	32.07	33.64	38.04	22.09	32.01
Sometimes	33.26	39.43	32.23	30.08	22.87	22.92	10.07	33.25	26.95
Rarely	4.76	13.85	3.22	3.00	1.64	0.44	1.37	3.32	1.57
Never	5.59	8.53	5.09	3.90	1.00	0.00	4.65	4.84	0.00
Don't Know	2.38	0.00	2.78	4.01	3.69	4.66	0.00	3.32	7.61
Ever worn a hearing aid	13.61	6.81	21.14	16.71	16.57	17.20	16.10	16.52	64.42
Frequency of wearing a hearing aid									
Always	33.64	16.71	39.68	33.29	38.74	29.68	9.71	39.95	47.63
Most of the time	20.87	22.68	20.22	18.92	20.47	18.00	9.18	19.34	19.44
Some of the time	30.58	38.92	27.61	33.35	24.40	30.55	45.97	29.32	23.45
None of the time	14.91	21.68	12.50	14.44	16.39	21.78	35.15	11.38	9.48
Don't know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 18. Estimated Population of Persons with Disabilities, by Data Source

			Participation R	estriction	Activity Limitation		Impairment	
	No Disability	Disability	Work Limitation	IADL	ADLs	Mental	Physical	Sensory
Ages 18 to 24								
Census 2000	24,790,000	1,442,000	NA	NA	207,000	883,000	456,000	326,000
American Community Survey, 2003	24,194,401	1,667,355	714,229	399,423	187,904	953,448	535,666	356,820
Current Population Survey, March 2004	26,803,529	816,662	816,662	NA	NA	NA	NA	NA
National Health Interview Survey, 2002	25,225,000	2,126,000	927,000	228,000	147,000	786,000	859,000	78,000
Panel Study on Income Dynamics, 2001	9,123,000	690,000	690,000	NA	NA	NA	NA	NA
Survey of Income and Program Participation, 2002	24,820,000	2,426,337	1,209,000	366,000	146,000	1,076,000	982,000	533,000
Ages 25 to 61								
Census 2000	124,493,000	14,005,000	NA NA	NA	2,627,000	5,218,000	9,447,000	3,346,000
American Community Survey, 2003	126,649,510	17,146,845	9,854,223	4,227,427	2,925,715	5,745,569	10,819,521	3,944,388
Current Population Survey, March 2004	132,649,606	12,102,093	12,102,093	NA	NA	NA	NA	NA
National Health Interview Survey, 2002	115,934,000	23,192,000	13,725,000	3,169,000	1,350,000	4,627,000	14,545,000	2,730,000
Panel Study on Income Dynamics, 2001	117,273,000	20,054,000	20,054,000	NA	NA	NA	NA	NA
Survey of Income and Program Participation, 2002	115,900,000	26,620,000	14,420,000	4,931,000	3,362,000	4,394,000	18,790,000	6,490,000
Ages 62 to 64								
Census 2000	4,806,000	1,413,000	NA	NA	257,000	348,000	1,134,000	373,000
American Community Survey, 2003	4,941,802	1,795,533	1,111,762	404,875	293,507	393,782	1,292,381	455,364
Current Population Survey, March 2004	5,482,126	1,278,528	1,278,528	NA	NA	NA	NA	NA
National Health Interview Survey, 2002	4,239,000	2,045,000	1,281,000	300,000	127,000	144,000	1,466,000	310,000
Panel Study on Income Dynamics, 2001	3,911,000	1,684,000	1,684,000	NA	NA	NA	NA	NA
Survey of Income and Program Participation, 2002	3,958,000	2,581,000	1,496,000	567,000	376,000	252,000	2,165,000	672,000

Table 18 (continued). Estimated Population of Persons with Disabilities, by Data Source

			Participation Restriction		Limitation		Impairment	
	No Disability	Disability	Work Limitation	on IADL	ADLs	Mental	Physical	Sensory
Ages 18 to 64								
Census 2000	154,091,000	16,861,000	NA	NA	3,093,000	6,450,000	11,039,000	4,046,000
American Community Survey, 2003	155,785,713	20,609,733	11,680,214	5,031,725	3,407,126	7,092,799	12,647,568	4,756,572
Current Population Survey, March 2004	164,935,261	14,197,283	14,197,283	NA	NA	NA	NA	NA
National Health Interview Survey, 2002	145,399,000	27,363,000	15,934,000	3,697,000	1,626,000	5,558,000	16,871,000	3,119,000
Panel Study on Income Dynamics, 2001	130,309,000	22,429,000	22,429,000	NA	NA	NA	NA	NA
Survey of Income and Program Participation, 2002	144,678,000	31,627,000	17,126,000	5,864,000	3,885,000	5,723,000	21,938,000	7,695,000

Source: Calculations from the various Cornell StatsRRTC User Guides.

Note: (1) For the Census 2000, the disability column is represented by those persons with sensory, physical, mental, and/or self-care disabilities.

Note: (2) Instrumental Activities of Daily Living (IADLs) include a broader set of participation restrictions than the "go-outside-home" definition in the American Community Survey. It also includes participation restrictions that affect the ability to: manage money and keep track of bills, prepare meals, and do work around the house.

Note: (3) The March 2004 Current Population Supplement collects 2003 calendar year information on poverty and household income. Population and prevalence estimates are collected in March 2004.

Note: (4) The PSID only asks this question for the Head and Wife of the Household. Children of the Head and Wife are not asked this question, and the PSID assigns missing values to children for this question. As a result, the population with and without a work limitation is small relative to the other national surveys.

Note: Standard errors for NHIS estimates are in Appendix Table D-1. Standard errors for other datasets available in respective user guides.

Table 19. Estimated Disability Prevalence Rates, By Data Source

	ou Disubility	Participation Restriction		Activity Limitation		Impairment	
	Disability	Work Limitation	IADL	ADLs	Mental	Physical	Sensory
Ages 18 to 24							
Census 2000	5.5	NA	NA	0.8	3.4	1.7	1.2
ACS, 2003	6.5	2.8	1.5	0.7	3.7	2.1	1.4
CPS, March 2004	3.0	3.0	NA	NA	NA	NA	NA
NHIS, 2002	7.8	3.4	0.8	0.5	2.9	3.1	0.3
PSID, 2001	7.0	7.0	NA	NA	NA	NA	NA
SIPP, 2002	8.9	4.4	1.3	0.5	4.0	3.6	2.0
Ages 25 to 61							
Census 2000	10.1	NA	NA	1.9	3.8	6.8	2.4
ACS, 2003	11.9	6.9	2.9	2.0	4.0	7.5	2.7
CPS, March 2004	8.4	8.4	NA	NA	NA	NA	NA
NHIS, 2002	16.7	9.9	2.3	1	3.3	10.5	2.0
PSID, 2001	14.6	14.6	NA	NA	NA	NA	NA
SIPP, 2002	18.7	10.1	3.5	2.4	3.1	13.2	4.6
Ages 62 to 64							
Census 2000	22.7	NA	NA	4.1	5.6	18.2	6.0
ACS, 2003	26.7	16.5	6.0	4.4	5.8	19.2	6.8
CPS, March 2004	18.9	18.9	NA	NA	NA	NA	NA
NHIS, 2002	32.5	20.4	4.8	2.0	2.3	23.3	4.9
PSID, 2001	30.1	30.1	NA	NA	NA	NA	NA
SIPP, 2002	39.5	22.9	8.7	5.8	3.9	33.1	10.3
Ages 18 to 64							
Census 2000	9.9	NA	NA	1.8	3.8	6.5	2.4
ACS, 2003	11.7	6.6	2.9	1.9	4.0	7.2	2.7
CPS, March 2004	7.9	7.9	NA	NA	NA	NA	NA
NHIS, 2002	15.8	9.2	2.1	0.9	3.2	9.8	1.8
PSID, 2001	14.7	14.7	NA	NA	NA	NA	NA
SIPP, 2002	17.9	9.7	3.3	2.2	3.2	12.4	4.4

Source: Calculations from the various Cornell StatsRRTC User Guides.

Note: (1) For the Census 2000, the disability column is represented by those persons with sensory, physical, mental, and/or self-care disabilities

Note: (2) Instrumental Activities of Daily Living (IADLs) include a broader set of participation restrictions than the "go-outside-home" definition in the American Community Survey. It also includes participation restrictions that affect the ability to: manage money and keep track of bills, prepare meals, and do work around the house.

Note: (3) The March 2004 Current Population Supplement collects 2003 calendar year information on poverty and household income. Population and prevalence estimates are collected in March 2004.

Note: (4) The PSID only asks this question for the Head and Wife of the Household. Children of the Head and Wife are not asked this question, and the PSID assigns missing values to children for this question. As a result, the population with and without a work limitation is small relative to the other national surveys.

Note: Standard errors for NHIS estimates are in Appendix Table D-1. Standard errors for other datasets available in respective user guides.

Table 20. Estimated Employment Rates for Persons With Disabilities Ages 25 to 61, By Data Source

			Participation Re	striction	Activity Limitation		Impairment	
	No Disability	Disability	Work Limitation	IADL	ADLs	Mental	Physical	Sensory
Reference Week, Ages	25 to 61							
Census 2000	78.8	41.8	NA	NA	21.7	30.2	35.6	52.1
ACS, 2003	79.5	39.3	18.9	17.9	18.3	28.2	33.8	49.9
CPS, March 2004	81.4	19.6	19.6	NA	NA	NA	NA	NA
NHIS, 2002	83.3	47.3	29.8	18.3	14.1	37.1	43.8	58.6
PSID, 2001	83.8	53.2	53.2	NA	NA	NA	NA	NA
SIPP, 2002	82.4	48.9	27.7	20.3	22.8	37	46.4	53.5
Some Attachment, Age	es 25 to 61							
Census 2000	86.3	51.9	NA	NA	31.9	40.4	45.4	61.1
ACS, 2003	87.1	48.9	28.3	25.8	26.2	37.2	42.8	58.1
CPS, March 2004	86.2	27.9	27.9	NA	NA	NA	NA	NA
NHIS, 2002	88.3	57.9	42	25.7	19.9	51.8	53.8	66.6
PSID, 2001	91.9	67.8	67.8	NA	NA	NA	NA	NA
SIPP, 2002	90.6	61.1	41	34.1	38.8	46.3	59	63.7
Full-Year Full- Time ,	Ages 25 to 61							
Census 2000	58.8	27.1	NA	NA	13.1	16.7	22.6	37.4
ACS, 2003	59.6	24.5	9.1	9	9.4	15	20.3	34.5
CPS, March 2004	65.3	9.4	9.4	NA	NA	NA	NA	NA
NHIS, 2002	62.8	29.8	16.3	9.3	6.2	21.3	27.2	43.4
PSID, 2001	70.5	45.1	45.1	NA	NA	NA	NA	NA
SIPP, 2002	58.1	31.2	15.3	12	15	20.3	29.6	35.6

Source: Calculations from the various Cornell StatsRRTC User Guides.

Note: (3) The March 2004 Current Population Supplement collects 2003 calendar year information on poverty and household income. Population and prevalence estimates are collected in March 2004.

Note: (4) The PSID only asks this question for the Head and Wife of the Household. Children of the Head and Wife are not asked this question, and the PSID assigns missing values to children for this question. As a result, the population with and without a work limitation is small relative to the other national surveys.

Note: Standard errors for NHIS estimates are in Appendix Table D-3. Standard errors for other datasets available in respective user guides.

Note: (1) For the Census 2000, the disability column is represented by those persons with sensory, physical, mental, and/or self-care disabilities.

Note: (2) Instrumental Activities of Daily Living (IADLs) include a broader set of participation restrictions than the "go-outside-home" definition in the American Community Survey. It also includes participation restrictions that affect the ability to: manage money and keep track of bills, prepare meals, and do work around the house.

Table 21. Economic Well Being Estimates for Persons with Disabilities Ages 25 to 61, By Data Source

			Participation Re	striction	Activity Limitation		Impairment	
	No Disability	Disability	Work Limitation	IADL	ADLs	Mental	Physical	Sensory
Poverty Rates, Ages	25 to 61							
Census 2000	7.9	23.2	NA	NA	30.0	30.6	24.2	20.1
ACS, 2003	7.7	23.7	29.6	29.7	28.9	30.8	25.0	20.8
CPS, March 2004	8.0	28.8	28.8	NA	NA	NA	NA	NA
NHIS, 2002	7.5	21.2	26.5	32.3	30.1	29.8	22.1	20.7
PSID, 2001	4.6	11.8	11.8	NA	NA	NA	NA	NA
SIPP, 2002	6.5	18.8	26.0	26.3	25.1	24.9	19.1	17.6
Median Household I	ncome, Ages 25 to	61						
Census 2000	\$56,860	\$33,600	NA	NA	\$27,200	\$26,170	\$32,000	\$37,400
ACS, 2003	\$60,000	\$34,600	\$28,000	\$28,600	\$28,000	\$27,400	\$32,100	\$38,000
CPS, March 2004	\$61,999	\$27,955	\$27,955	NA	NA	NA	NA	NA
NHIS, 2002	\$55,000 - \$64,000	\$25,000 - \$34,999	\$25,000 - \$34,999	\$20,000 - \$24,999	\$20,000 - \$24,999	\$20,000 - \$24,999	\$25,000- \$34,999	\$35,000 \$44,999
PSID, 2001	\$62,000	\$42,000	\$42,000	NA	NA	NA	NA	NA
SIPP, 2002	\$53,313	\$33,895	\$25,664	\$24,989	\$26,735	\$26,218	\$33,490	\$33,776
Median Size-Adjuste	d Household Incon	ne, Ages 25 to	61					
Census 2000	\$33,234	\$20,412	NA	NA	\$16,330	\$16,000	\$19,676	\$22,617
ACS, 2003	\$35,796	\$21,304	\$17,487	\$17,615	\$17,667	\$17,321	\$20,207	\$23,415
CPS, March 2004	\$36,770	\$17,967	\$17,967	NA	NA	NA	NA	NA
NHIS, 2002	NA	NA	NA	NA	NA	NA	NA	NA
PSID, 2001	\$38,891	\$28,000	\$28,000	NA	NA	NA	NA	NA
SIPP, 2002	NA	NA	NA	NA	NA	NA	NA	NA

Source: Calculations from the various Cornell StatsRRTC User Guides.

Note: (1) For the Census 2000, the disability column is represented by those persons with sensory, physical, mental, and/or self-care disabilities.

Note: (2) Instrumental Activities of Daily Living (IADLs) include a broader set of participation restrictions than the "go-outside-home" definition in the American Community Survey. It also includes participation restrictions that affect the ability to: manage money and keep track of bills, prepare meals, and do work around the house.

Note: (3) The March 2004 Current Population Supplement collects 2003 calendar year information on poverty and household income. Population and prevalence estimates are collected in March 2004.

Note: (4) The PSID only asks this question for the Head and Wife of the Household. Children of the Head and Wife are not asked this question, and the PSID assigns missing values to children for this question. As a result, the population with and without a work limitation is small relative to the other national surveys.

Note: Standard errors for NHIS estimates are in Appendix Table D-4. Standard errors for other datasets available in respective user guides.

Appendix A. Imputed Income in the NHIS¹⁹

Relative to some other surveys, such as the CPS, the NHIS has little information on income, earnings, and wealth. The primary source of financial data in the NHIS is derived from three questions, FIN.250, FIN.260, and FIN.270. FIN.250 first asks persons: "Now I am going to ask about the total combined income {for you/of your family} in {last year in four digit format}, including income from all sources we have just talked about, including wages, salaries, Social Security or retirement benefits, help from relatives and so forth. Can you tell me that amount before taxes?" Respondents that cannot answer this question are then asked FIN. 260, which asks persons to indicate if their total combined family income is above or below \$20,000. Respondents that can answer FIN.260 are presented with a list of income groups (depending on their answer to FIN.260) and asked to choose the income group that best represents their family's total combined income in the previous year.

The response rate for exact family income in the NHIS is low. Between 1997 and 2003, the weighted percentage of persons who reported exact family incomes ranged between 24 and 33 percent. In the same years, an additional 20 to 31 percent of the respondents reported a detailed categorical value for family income, and another 6 to 10 percent reported the two-category income range only (i.e. above or below \$20,000). To handle the issue of unknown and incomplete response for family income, NCHS began imputing values for family income for all families in the NHIS. Currently, imputed income is available for years 1997 through 2003. Due to additional variability associated with the multiple imputation procedure, NCHS released five distinct datasets containing imputed family income data. The purpose of producing multiple datasets is to allow for alternative methods of computing variability due to sampling error rather than the standard method for computing standard errors.

In deriving the point estimates found in Table 4, we first analyzed each of the five datasets separately to determine the poverty ratios and median income ranges for given demographic groups. A complete description of the estimates, by imputed income

¹⁹ Information from this section was derived from NCHS (2005).

dataset, can be found in Table A-3. We then calculated the simple average of the values from each of the five datasets, and reported this average in Table 4.

In the public dataset, NCHS does not release exact values for poverty ratios or family income. Instead, family income is reported in 11 income categories, and poverty ratios are reported in 14 poverty ratio categories. In the public dataset, the value for family income is reported as a one or two-digit code corresponding to an income range. Since Table 4 presents the mean value of five median income ranges, in some cases the mean value of the median family income for a particular demographic group did not correspond to a whole number. As it is difficult to interpret the partial value of an income range, we simply rounded the mean value to the nearest whole number, and reported the corresponding income range. Researchers concerned with more precise estimates of family income range may analyze the results presented in appendix Table A-3.

Appendix B. Sampling Structure and Variance Estimation

The NHIS is based on a complex sample design incorporating stratification, clustering, and multistage sampling. As mentioned earlier in the text, the purpose of multi-stage, clustered sampling is to achieve greater administrative efficiency and to keep survey operations manageable and cost-effective.

In the development of the 2002 NHIS sample, the target universe was partitioned into 1,995 primary sampling units (PSUs). A PSU is a county, group of adjacent counties (or equivalent jurisdiction such as a parish), and/or metropolitan areas. PSUs are separated into two groups: self-representing (SR) and non-self representing (NSR) PSUs. The 52 PSUs with the largest metropolitan populations were designated as SR PSUs. SR PSUs are sampled with certainty, while the NSR PSUs are sampled for data collection with probabilities proportional to population size. The PSUs were then partitioned into 194 design strata. PSUs were first stratified by state and metropolitan status (i.e. metro or non-metro). If a given NSR contained a large population, it was further stratified by aggregate poverty rates. No PSU was allowed to comprise more than 50 percent of a stratum's total size. Because of this constraint, 43 additional PSUs were designated as NR PSUs after the initial stratification process, making 95 SR PSUs.

At this point, there were 237 strata, 95 strata containing a SR PSU and 142 containing NSR PSUs. Of the 142 NSR strata, two PSUs were drawn from 121 of the strata. For 21 of the NSR strata, the total population (estimated 1995) was so small that only a single PSU was drawn. A total of 358 PSUs were identified in this way (95 SR PSUs, in addition to 142 NSR PSUs from 121 strata with two sampled PSUs and 21 NSR PSUs from strata with only a single sampled PSU). Each of the 358 selected PSUs was then stratified into Census blocks or combinations of Census blocks based on concentrations of black and/or Hispanic residents, as determined from the 1990 Decennial Census. The maximum number of substrata within a PSU was 21; metropolitan PSUs (SR PSU) tended to have more substrata. Sampling within each substratum is complex, and is done from a universe of Secondary Sampling Units (SSUs). SSUs are sampled to represent each substratum.

Within each selected SSU, all households containing black and/or Hispanic individuals are selected for interview. Other households are selected at different rates within each substratum. All members of each selected household are sampled in the family core section of the survey, and one adult and child are each sampled for the sample adult core and sample child core, respectively. For additional information on the PSU stratification process, see NCHS (1999).

Appendix C. Estimated Standard Errors

Table A-1. Standard Errors for Population and Prevalence Estimates by Disability Concept Estimates

		Disability	Participation	Restriction	Activity Limitation		Impairment	
	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory
All, Age 18-99								
Population Estimate	1,755,092.0	829,093.0	581,476.9	252,802.9	183,966.4	240,574.5	629,540.5	265,429.9
Prevalence Rate	0.33	0.33	0.24	0.12	0.09	0.11	0.26	0.13
Ages 5 to 17								
Population Estimate	NA	NA	NA	NA	NA	NA	NA	NA
Prevalence Rate	NA	NA	NA	NA	NA	NA	NA	NA
Ages 18 to 24								
Population Estimate	753,933.5	152,033.3	105,648.8	54,120.4	46,930.0	92,344.0	94,508.0	22,988.0
Prevalence Rate	0.55	0.55	0.38	0.20	0.17	0.34	0.34	0.08
Ages 25 to 61								
Population Estimate	1,405,058.0	567,249.8	432,850.3	169,537.0	111,625.9	198,903.9	436,408.0	170,720.0
Prevalence Rate	0.35	0.36	0.28	0.12	0.08	0.14	0.29	0.12
Ages 62 to 64								
Population Estimate	188,350.1	124,511.3	96,838.2	43,712.5	27,898.0	28,717.8	105,554.5	51,851.9
Prevalence Rate	1.70	1.70	1.44	0.69	0.44	0.45	1.51	0.80
Ages 65 and older								
Population Estimate	421,357.3	432,684.3	293,098.3	168,875.4	131,157.0	74,373.7	328,689.8	186,519.5
Prevalence Rate	0.79	0.80	0.74	0.46	0.37	0.22	0.70	0.52

Table A-2. Standard Errors for Demographic Characteristics by Component of Disability Process

Table A-2. Stalldard	211013101			A ctivity	·			
		Disability	Participation 1	Restriction	Limitation	1	impairmer	ıt
Characteristic	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Montal	Physical	Cangany
Age	Disability	or the o	Limitation	IADLS	ADLS	Mentai	Filysical	Sensory
% 18 to 24	0.409	0.344	0.428	0.690	1.260	1.332	0.330	0.328
% 25 to 34	0.320	0.360	0.465	0.664	1.328	1.153	0.369	0.776
% 35 to 44	0.339	0.493	0.694	1.038	1.350	1.627	0.555	1.052
% 45 to 54	0.324	0.573	0.844	1.205	1.649	1.751	0.738	1.132
% 55 to 64	0.235	0.560	0.733	1.105	1.579	1.188	0.661	1.349
% 65 to 74	0.193	0.503	0.627	1.060	1.545	0.906	0.613	1.311
% 75 to 84	0.129	0.513	0.644	1.240	2.035	0.676	0.605	1.452
% 85 or older	0.044	0.277	0.363	1.067	1.629	0.372	0.354	1.123
Gender								
% Male	0.408	0.780	0.987	1.481	2.365	1.921	0.900	1.771
% Female	0.408	0.780	0.987	1.481	2.365	1.921	0.900	1.771
Race								
% White	0.410	0.692	0.823	1.258	2.229	1.566	0.777	1.020
% Black	0.363	0.594	0.710	1.000	1.980	1.314	0.674	0.804
% Native American	0.077	0.161	0.205	0.371	0.506	0.356	0.190	0.514
% Asian	0.194	0.215	0.284	0.539	1.023	0.695	0.258	0.383
% Some Other Race	0.141	0.191	0.203	0.432	0.782	0.547	0.226	0.328
% Multiple race	0.033	0.036	0.050	0.133	0.230	0.157	0.051	0.000
Ethnicity								
% Hispanic	0.298	0.381	0.453	0.807	1.409	1.152	0.432	0.655
Education								
% Less than High School	0.300	0.643	0.836	1.404	2.294	1.636	0.749	1.505
% High School/GED	0.418	0.685	0.932	1.529	2.519	1.978	0.787	1.578
% Some College	0.376	0.603	0.768	1.202	1.840	1.462	0.705	1.422
% Four Year College Graduate or more	0.441	0.461	0.572	0.897	1.524	1.189	0.579	1.263
Don't know/refused	0.118	0.181	0.269	0.580	0.872	0.297	0.214	0.537
Total	0.329	0.329	0.243	0.118	0.085	0.114	0.267	0.127

 Table A-3.
 Economic Well Being Measures, Ages 25 to 61, by NHIS Income Imputation File

			Disability	Participation	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory
All								J	
% Below Poverty Line	9.9	7.7	21.2	26.6	31.7	29.2	30.6	22.1	20.4
% Below Poverty Line	9.3	7.5	21.3	26.8	32.6	31.3	29.5	22.2	20.1
% Below Poverty Line	9.8	7.4	21.4	26.9	33.0	29.7	30.1	22.3	21.7
% Below Poverty Line	9.8	7.6	21.2	26.3	31.7	29.2	29.3	21.9	21.7
% Below Poverty Line	9.7	7.5	20.9	26.2	32.6	31.3	29.3	22.2	19.5
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999
Men	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,	- 4	,	9	,	- ,	7
% Below Poverty Line	8.4	6.7	18.7	23.8	30.3	27.1	25.5	20.5	12.8
% Below Poverty Line	8.4	6.6	19.1	24.7	31.4	30.5	25.1	20.7	14.2
% Below Poverty Line	8.3	6.4	19.1	23.9	32.7	27.2	25.0	20.7	15.3
% Below Poverty Line	8.4	6.6	19.0	23.9	32.7	28.1	24.7	20.0	15.0
% Below Poverty Line	8.3	6.5	18.8	23.7	31.5	30.1	25.6	21.1	12.6
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$55,000- 64,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999

Table A-3 (continued). Economic Well Being Measures, Ages 25 to 61, by NHIS Income Imputation File

			Disability	Participation	n Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory
Women		<u> </u>						<u> </u>	
% Below Poverty Line	11.4	8.7	23.2	28.9	32.7	31.3	33.9	23.0	31.9
% Below Poverty Line	11.2	8.5	23.0	28.5	33.4	32.0	32.3	23.1	29.1
% Below Poverty Line	11.2	8.4	23.1	29.4	33.2	32.0	33.4	23.3	31.4
% Below Poverty Line	11.2	8.5	22.9	28.3	31.1	30.3	32.3	22.9	31.9
% Below Poverty Line	11.1	8.5	22.6	28.4	33.4	32.4	31.7	22.8	30.0
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999
Median Household Income	\$45,000- 54,999	\$55,000- 64,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999
White	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , ,	, , , , , ,	7	7	- 4	,	- ,	- ,
% Below Poverty Line	8.1	6.2	18.0	23.5	27.9	24.1	28.4	18.7	16.7
% Below Poverty Line	8.0	6.0	18.1	23.8	29.2	26.2	27.7	18.7	17.3
% Below Poverty Line	8.1	6.0	18.3	24.0	29.9	24.7	27.9	19.0	17.5
% Below Poverty Line	8.0	6.0	18.0	23.2	28.3	25.0	26.7	18.3	17.5
% Below Poverty Line	7.9	5.9	17.7	23.2	29.5	26.0	27.9	18.3	15.9
Median Household Income	\$55,000- 64,999	\$55,000- 64,999	\$35,000- 44,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999	\$35,000- 44,999
Median Household Income	\$55,000- 64,999	\$55,000- 64,999	\$35,000- 44,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$55,000- 64,999	\$55,000- 64,999	\$35,000- 44,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999	\$35,000- 44,999
Median Household Income	\$55,000- 64,999	\$55,000- 64,999	\$35,000- 44,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999	\$35,000- 44,999
Median Household Income	\$55,000- 64,999	\$55,000- 64,999	\$35,000- 44,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999

Table A-3 (continued). Economic Well Being Measures, Ages 25 to 61, by NHIS Income Imputation File

			Disability	Participation	n Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory
Black		<u> </u>						v	
% Below Poverty Line	18.9	14.8	36.5	41.4	51.0	42.1	36.5	37.0	39.9
% Below Poverty Line	18.9	14.9	35.7	41.2	51.0	45.8	35.7	37.1	33.5
% Below Poverty Line	18.6	14.5	35.7	41.1	49.6	39.7	39.1	36.9	39.9
% Below Poverty Line	18.5	14.5	35.4	40.6	49.7	40.0	38.1	36.0	39.9
% Below Poverty Line	19.0	14.9	36.4	41.9	50.5	46.4	35.6	39.6	43.8
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$20,000- 24,999	\$15,000- 19,999	\$10,000- 14,999	\$10,000- 14,999	\$20,000- 24,999	\$15,000- 19,999	\$15,000- 19,999
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$20,000- 24,999	\$15,000- 19,999	\$10,000- 14,999	\$10,000- 14,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$20,000- 24,999	\$15,000- 19,999	\$10,000- 14,999	\$10,000- 14,999	\$20,000- 24,999	\$20,000- 24,999	\$15,000- 19,999
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$20,000- 24,999	\$15,000- 19,999	\$10,000- 14,999	\$10,000- 14,999	\$20,000- 24,999	\$20,000- 24,999	\$15,000- 19,999
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$20,000- 24,999	\$15,000- 19,999	\$10,000- 14,999	\$10,000- 14,999	\$20,000- 24,999	\$15,000- 19,999	\$15,000- 19,999
Hispanic	7	7	,	- 4	,	,	,	- 7	7- 7-
% Below Poverty Line	18.9	17.2	30.4	37.9	26.9	36.8	42.8	30.7	26.1
% Below Poverty Line	18.6	16.7	31.8	37.1	29.5	32.6	43.5	33.2	30.1
% Below Poverty Line	18.6	16.9	30.4	37.7	30.5	36.8	44.1	30.3	29.7
% Below Poverty Line	19.1	17.2	32.1	38.2	27.7	34.1	42.3	33.5	29.7
% Below Poverty Line	18.6	16.6	31.5	37.5	28.6	41.0	42.4	31.7	25.3
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$25,000- 34,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999
Median Household Income	\$35,000- 44,999	\$35,000- 44,999	\$25,000- 34,999	\$20,000- 24,999	\$25,000- 34,999	\$20,000- 24,999	\$20,000- 24,999	\$25,000- 34,999	\$35,000- 44,999

Table A-3 (continued). Economic Well Being Measures, Ages 25 to 61, by NHIS Income Imputation File

			Disability	Participation	n Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory
Native American								J	
% Below Poverty Line	22.9	13.5	41.4	41.9	31.4	58.1	46.1	44.5	52.6
% Below Poverty Line	21.7	14.4	36.0	36.5	31.4	58.1	47.7	38.2	42.1
% Below Poverty Line	23.7	15.0	41.1	39.6	24.8	58.1	54.6	40.4	73.8
% Below Poverty Line	24.9	15.5	43.6	41.9	31.4	58.1	59.9	44.5	73.8
% Below Poverty Line	20.1	13.1	33.9	34.2	24.8	58.1	42.4	36.5	37.4
Median Household Income	\$25,000- 34,999	\$25,000- 34,999	\$10,000- 14,999	\$10,000- 14,999	\$10,000- 14,999	\$5,000- 9,999	\$5,000- 9,999	\$10,000- 14,999	\$5,000- 9,999
Median Household Income	\$25,000- 34,999	\$25,000- 34,999	\$15,000- 19,999	\$15,000- 19,999	\$15,000- 19,999	\$5,000- 9,999	\$15,000- 19,999	\$15,000- 19,999	\$10,000- 14,999
Median Household Income	\$25,000- 34,999	\$35,000- 44,999	\$15,000- 19,999	\$10,000- 14,999	\$20,000- 24,999	\$5,000- 9,999	\$10,000- 14,999	\$15,000- 19,999	\$10,000- 14,999
Median Household Income	\$25,000- 34,999	\$25,000- 34,999	\$10,000- 14,999	\$10,000- 14,999	\$10,000- 14,999	\$5,000- 9,999	\$10,000- 14,999	\$10,000- 14,999	\$5,000- 9,999
Median Household Income	\$25,000- 34,999	\$35,000- 44,999	\$15,000- 19,999	\$15,000- 19,999	\$20,000- 24,999	\$5,000- 9,999	\$15,000- 19,999	\$15,000- 19,999	\$15,000- 19,999
Asian	,	•	,	,	,	•	•	,	ŕ
% Below Poverty Line	11.3	10.6	19.0	15.0	24.5	38.2	26.0	24.1	24.5
% Below Poverty Line	11.0	10.0	22.6	21.8	24.5	38.2	26.0	25.3	24.5
% Below Poverty Line	10.7	10.1	17.8	16.5	24.5	38.2	16.9	25.3	24.5
% Below Poverty Line	11.3	10.6	19.8	16.5	24.5	38.2	26.0	25.3	24.5
% Below Poverty Line	11.0	10.5	17.0	15.0	24.5	38.2	16.9	24.1	24.5
Median Household Income	\$55,000- 64,999	\$55,000- 64,999	\$45,000- 54,999	\$45,000- 54,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999	\$35,000- 44,999	\$55,000- 64,999
Median Household Income	\$65,000- 74,999	\$65,000- 74,999	\$45,000- 54,999	\$45,000- 54,999	\$25,000- 34,999	\$25,000- 34,999	\$35,000- 44,999	\$35,000- 44,999	\$55,000- 64,999
Median Household Income	\$55,000- 64,999	\$55,000- 64,999	\$35,000- 44,999	\$55,000- 64,999	\$25,000- 34,999	\$25,000- 34,999	\$75,000+	\$35,000- 44,999	\$55,000- 64,999
Median Household Income	\$65,000- 74,999	\$65,000- 74,999	\$45,000- 54,999	\$35,000- 44,999	\$25,000- 34,999	\$25,000- 34,999	\$45,000- 54,999	\$35,000- 44,999	\$55,000- 64,999
Median Household Income	\$55,000- 64,999	\$55,000- 64,999	\$45,000- 54,999	\$45,000- 54,999	\$25,000- 34,999	\$25,000- 34,999	\$65,000- 74,999	\$45,000- 54,999	\$55,000- 64,999

Table A-3 (continued). Economic Well Being Measures, Ages 25 to 61, by NHIS Income Imputation File

			Disability	Participation	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory
LT High School								U	J
% Below Poverty Line	28.9	23.7	41.7	46.9	52.4	42.2	46.2	44.7	38.7
% Below Poverty Line	28.7	23.2	42.0	46.8	55.2	47.0	46.8	45.2	37.6
% Below Poverty Line	28.5	23.3	41.1	46.7	53.5	40.8	45.7	43.7	39.0
% Below Poverty Line	28.8	23.6	41.3	46.5	53.6	42.2	44.9	43.5	36.5
% Below Poverty Line	28.3	22.8	41.7	45.7	51.5	44.6	46.5	45.1	38.1
Median Household Income	\$25,000- 34,999	\$25,000- 34,999	\$15,000- 19,999	\$15,000- 19,999	\$10,000- 14,999	\$10,000- 14,999	\$15,000- 19,999	\$15,000- 19,999	\$20,000- 24,999
Median Household Income	\$25,000- 34,999	\$25,000- 34,999	\$15,000- 19,999	\$15,000- 19,999	\$10,000- 14,999	\$10,000- 14,999	\$15,000- 19,999	\$15,000- 19,999	\$20,000- 24,999
Median Household Income	\$25,000- 34,999	\$25,000- 34,999	\$15,000- 19,999	\$15,000- 19,999	\$10,000- 14,999	\$15,000- 19,999	\$15,000- 19,999	\$15,000- 19,999	\$20,000- 24,999
Median Household Income	\$25,000- 34,999	\$25,000- 34,999	\$15,000- 19,999	\$15,000- 19,999	\$10,000- 14,999	\$10,000- 14,999	\$15,000- 19,999	\$15,000- 19,999	\$20,000- 24,999
Median Household Income	\$25,000- 34,999	\$25,000- 34,999	\$15,000- 19,999	\$15,000- 19,999	\$10,000- 14,999	\$15,000- 19,999	\$15,000- 19,999	\$15,000- 19,999	\$20,000- 24,999
High School	- 1,222	2 1,2 2 2	,	,	- 1,2 2 2	,	,	,	- 1,522
% Below Poverty Line	11.6	9.5	19.9	23.3	26.9	33.0	30.9	20.0	19.5
% Below Poverty Line	11.3	9.3	19.5	23.1	28.0	35.1	29.6	19.1	19.6
% Below Poverty Line	11.5	9.2	20.6	23.8	29.6	33.7	31.5	20.6	23.5
% Below Poverty Line	11.4	9.2	20.0	23.3	26.7	32.9	30.1	19.8	23.5
% Below Poverty Line	11.1	9.0	19.4	23.5	29.9	36.9	28.8	19.6	17.7
Median Household Income	\$35,000- 44,999	\$45,000- 54,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999
Median Household Income	\$35,000- 44,999	\$45,000- 54,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999
Median Household Income	\$35,000- 44,999	\$45,000- 54,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999
Median Household Income	\$35,000- 44,999	\$45,000- 54,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999
Median Household Income	\$35,000- 44,999	\$45,000- 54,999	\$25,000- 34,999	\$25,000- 34,999	\$20,000- 24,999	\$15,000- 19,999	\$20,000- 24,999	\$25,000- 34,999	\$25,000- 34,999

Table A-3 (continued). Economic Well Being Measures, Ages 25 to 61, by NHIS Income Imputation File

			Disability	Participation	n Restriction	Activity Limitation		Impairment	t
	Total	No Disability	At least 1 of the 6	Work Limitation	IADLs	ADLs	Mental	Physical	Sensory
More Than High School									
% Below Poverty Line	4.9	4.0	11.7	16.4	22.1	20.3	19.3	11.8	12.5
% Below Poverty Line	4.9	3.9	11.7	16.9	21.6	20.6	17.0	12.3	10.6
% Below Poverty Line	4.8	3.8	11.6	16.9	22.6	21.7	17.3	12.3	11.7
% Below Poverty Line	4.9	3.9	11.7	16.0	21.0	19.6	17.2	12.0	13.0
% Below Poverty Line	4.9	3.9	11.5	16.3	22.8	20.9	17.5	12.0	12.2
Median Household Income	\$65,000-	\$65,000-	\$45,000-	\$25,000-	\$25,000-	\$35,000-	\$25,000-	\$45,000-	\$45,000-
Median Household Income	74,999	74,999	54,999	34,999	34,999	44,999	34,999	54,999	54,999
Median Household Income	\$65,000-	\$65,000-	\$35,000-	\$25,000-	\$25,000-	\$35,000-	\$25,000-	\$45,000-	\$45,000-
Median Household income	74,999	74,999	44,999	34,999	34,999	44,999	34,999	54,999	54,999
Median Household Income	\$65,000-	\$65,000-	\$45,000-	\$25,000-	\$25,000-	\$35,000-	\$35,000-	\$45,000-	\$45,000-
Median Household income	74,999	74,999	54,999	34,999	34,999	44,999	44,999	54,999	54,999
Median Household Income	\$65,000-	\$65,000-	\$35,000-	\$25,000-	\$25,000-	\$35,000-	\$35,000-	\$45,000-	\$45,000-
Median Household Income	74,999	74,999	44,999	34,999	34,999	44,999	44,999	54,999	54,999
Madian Housahold Income	\$65,000-	\$65,000-	\$45,000-	\$25,000-	\$25,000-	\$35,000-	\$25,000-	\$45,000-	\$45,000-
Median Household Income	74,999	74,999	54,999	34,999	34,999	44,999	34,999	54,999	54,999

Table A-4. Standard Errors for Employment Rate Estimates, Ages 25 to 61

		Disability	Participation	Restriction	Activity Limitation		Impairments	
		At least 1	Work					
% Employed During	No Disability	of the 6	Limitation	IADLs	ADLs	Mental	Physical	Sensory
All								
Reference Period	0.363	1.085	1.147	2.202	3.235	2.119	1.293	2.667
Sometime in Previous Year	0.299	1.060	1.203	2.368	3.567	2.258	1.408	2.600
Full-Time in Previous Year	0.457	0.943	0.882	1.522	2.894	1.873	1.168	2.690
Men								
Reference Period	0.389	1.593	1.688	3.408	5.637	3.896	2.071	3.217
Sometime in Previous Year	0.287	1.515	1.734	3.891	6.155	3.777	2.230	2.983
Full-Time in Previous Year	0.579	1.509	1.413	3.030	5.560	3.277	1.975	3.392
Women								
Reference Period	0.553	1.326	1.517	2.931	2.917	2.424	1.534	4.575
Sometime in Previous Year	0.509	1.402	1.719	2.980	3.523	2.740	1.650	4.649
Full-Time in Previous Year	0.618	1.163	1.098	1.968	1.185	2.161	1.384	4.353
White								
Reference Period	0.395	1.243	1.337	2.618	2.977	2.474	1.541	2.950
Sometime in Previous Year	0.330	1.223	1.465	2.839	3.343	2.680	1.615	2.875
Full-Time in Previous Year	0.521	1.083	1.027	1.805	1.823	2.299	1.346	2.978
Black								
Reference Period	0.950	2.128	2.683	3.413	10.864	5.472	2.876	8.337
Sometime in Previous Year	0.764	2.507	2.946	4.186	10.575	4.702	3.299	8.128
Full-Time in Previous Year	1.314	2.005	2.441	2.963	11.189	4.311	2.733	8.253
Hispanic								
Reference Period	0.840	2.631	2.816	5.305	5.186	4.904	3.456	6.950
Sometime in Previous Year	0.707	2.653	3.240	5.816	5.186	5.383	3.707	7.283
Full-Time in Previous Year	1.003	2.498	2.295	0.000	0.000	3.522	2.986	9.820

Table A-4. Standard Errors for Employment Rate Estimates, Ages 25 to 61

		Disability	Participation	Restriction	Activity Limitation		Impairments	
A/ F 1 1 1 1 1 1 1 1 1	N D. 199	At least 1	Work	T / D T	4.754	3.5	T	G
% Employed During	No Disability	of the 6	Limitation	IADLs	ADLs	Mental	Physical	Sensory
Native American								
Reference Period	6.610	6.634	7.858	3.660	11.134	12.593	7.729	14.199
Sometime in Previous Year	4.367	7.476	8.740	7.691	11.134	12.568	8.502	16.064
Full-Time in Previous Year	6.294	4.310	2.446	0.000	0.000	12.563	4.567	4.052
Asian								
Reference Period	1.793	7.638	8.417	19.320	0.000	18.999	11.351	30.588
Sometime in Previous Year	1.691	7.711	9.985	19.320	30.160	20.577	11.329	21.669
Full-Time in Previous Year	2.242	7.326	9.567	19.320	0.000	12.814	10.446	30.588
LT High School								
Reference Period	1.134	1.977	1.908	2.742	2.400	4.132	2.408	5.628
Sometime in Previous Year	0.972	1.944	2.062	2.950	2.750	4.523	2.595	5.731
Full-Time in Previous Year	1.297	1.625	1.405	1.652	0.000	3.621	1.738	5.369
High School								
Reference Period	0.636	1.745	1.978	4.072	3.145	3.832	2.006	4.175
Sometime in Previous Year	0.553	1.793	2.257	4.721	5.680	4.102	2.200	4.115
Full-Time in Previous Year	0.835	1.580	1.529	2.689	2.219	3.231	1.892	4.242
More Than High School								
Reference Period	0.429	1.536	1.942	3.609	6.805	3.438	2.012	3.725
Sometime in Previous Year	0.335	1.418	2.013	3.756	6.764	3.304	1.857	3.299
Full-Time in Previous Year	0.556	1.536	1.747	3.041	6.590	3.200	1.946	4.245

Table A-5. Multiple Disabilities Standard Errors, Respondents Aged 18-64

Standard errors for percent of respondents with at least one disability in each single or dual disability category

	Employment	IADLs	ADLs	Physical	Mental	Sensory
Employment	1.233	0.793	0.606	1.133	0.316	0.697
IADLs	0.793	0.874	0.356	0.888	0.247	0.479
ADLs	0.606	0.356	0.731	0.708	0.228	0.374
Physical	1.133	0.888	0.708	0.909	0.355	0.773
Mental	0.316	0.247	0.228	0.355	0.455	0.225
Sensory	0.697	0.479	0.374	0.773	0.225	0.963
Category Disability Only	0.646	0.200	0.038	0.223	0.957	0.551

Source: Authors' calculations from 2002 National Health Interview Survey (NHIS).

Note: The first cell in the first column can be interpreted as the percent of disabled respondents with an employment disability.

The second cell in the first column can be interpreted as the percent of disabled respondents with both an employment and IADL disability.

Table A-6. Multiple Disabilities Standard Errors, Respondents Aged 65+

	Standard errors fo	r percent of respo	ondents with at leas	st one disability in ea	ach single or dual d	disability category
	Employment	IADLs	ADLs	Physical	Mental	Sensory
Employment	0.9619	0.6037	0.3958	0.8893	0.5415	0.3786
IADLs	0.6037	0.6281	0.3564	0.5435	0.2991	0.2070
ADLs	0.3958	0.3564	0.4051	0.3689	0.1818	0.1282
Physical	0.8893	0.5435	0.3689	0.9316	0.5264	0.3889
Mental	0.5415	0.2991	0.1818	0.5264	0.6829	0.2193
Sensory	0.3786	0.2070	0.1282	0.3889	0.2193	0.6087
Category Disability Only	0.7207	0.0955	0.0679	0.5015	0.8382	0.4031

Note: The first cell in the first column can be interpreted as the percent of disabled respondents with an employment disability.

The second cell in the first column can be interpreted as the percent of disabled respondents with both an employment and IADL disability.

Table A-7. Underlying Indicators of Disability Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation F	Restriction	Activity Limitation		Impairmen	t
		No	At least 1						
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Employment									
Unable to work due to a disability	0.1918	0.0000	0.9327	1.1355	1.9916	2.8968	1.9531	1.2136	2.1454
Limited in work due to a disability	0.1349	0.0000	0.7266	1.1355	1.5746	2.2924	1.0236	0.7890	1.4110
IADLs									
Needs help with routine care needs	0.1050	0.0000	0.6281	0.9652	0.0000	3.1651	1.4240	0.8634	1.7284
ADLs									
Needs help with personal care needs	0.0674	0.0000	0.4051	0.6726	2.2497	0.0000	0.8931	0.5815	1.1199
Difficulty with bathing	0.0506	NA	3.7492	3.8960	3.8627	3.7492	6.1378	4.0416	9.1716
Difficulty with dressing	0.0513	NA	3.5358	3.6437	4.0036	3.5358	7.3079	3.7012	10.5340
Difficulty with eating	0.0285	NA	2.9390	3.0677	3.4364	2.9390	6.1810	3.1108	10.1336
Difficulty with getting into bed or chairs	0.0438	NA	3.9542	4.1008	4.0383	3.9542	7.7931	4.3977	10.1883
Difficulty with using the toilet	0.0350	NA	3.3863	3.5348	3.8789	3.3863	6.0618	3.5578	8.9261
Difficulty with getting around the home	0.0372	NA	3.5717	3.7400	4.0412	3.5717	7.3737	3.9400	9.8621
Mental									
Low Kessler index score ^a	0.3340	0.3157	0.8874	1.1689	2.2381	3.5642	0.0000	1.1701	2.5857
Medium Kessler index score ^b	0.2993	0.3157	0.8084	1.1370	2.2264	3.4220	0.0000	1.0622	2.4607
High Kessler index score ^c	0.1280	0.0000	0.6829	0.8666	1.9901	2.8793	0.0000	0.8188	1.8562
Physical									
Difficulty with/can't									
Walk a quarter of a mile	0.1412	0.0000	0.7589	1.0990	2.5598	3.7688	1.5593	1.0887	2.1320
Walk 10 steps without resting	0.1251	0.0000	0.7261	0.9545	2.3462	3.7072	1.4505	1.1142	1.7396
Stand for 2 hours	0.1714	0.0000	0.8718	1.1914	2.4623	3.6717	1.9684	1.2005	2.1837
Sit for 2 hours	0.1293	0.0000	0.7118	1.0791	2.2852	3.3660	1.7371	1.0908	1.9940
Stoop, bend or kneel	0.1882	0.0000	0.8953	1.2149	2.3683	3.9419	1.7377	1.1635	2.1241
Reach over your head	0.0941	0.0000	0.5323	0.7613	1.9086	3.3719	1.2187	0.7952	1.8153
Grasp small objects	0.0750	0.0000	0.4469	0.6478	1.6720	3.4385	0.9773	0.7118	1.5229
Lift or carry something as heavy as 10 lbs	0.1187	0.0000	0.6658	0.9895	2.4299	4.0448	1.6455	1.0114	1.8075
Push or pull large objects	0.1554	0.0000	0.8171	1.1556	2.4904	3.9992	1.7947	1.1570	2.2035

Table A-7 (continued). Underlying Indicators of Disability Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairment	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Sensory								-	
$Blind^{d}$	0.0350	0.0000	0.2177	0.3094	0.8774	1.1035	0.4074	0.2046	1.7271
Deaf	0.0291	0.0000	0.1804	0.2291	0.5420	0.2973	0.3073	0.1828	1.4871
Difficulty hearing without hearing aid	0.0843	0.0000	0.5119	0.4819	1.0699	1.7267	0.9238	0.5423	2.1145

a) Kessler index score 0-3

b) Kessler index score 4-12

c) Kessler index score 13+

d) Respondents are only asked this question if they first answered that they had vision trouble. The numbers in this column are the responses conditional on the "lead-in" question.

Table A-8. Underlying Indicators of Disability Standard Errors, Respondents Aged 65+ (Percentages)

			Disability	Participation 1	Restriction	Activity Limitation		Impairmen	t
		No	At least 1						
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Employment									
Unable to work due to a disability	0.5641	0.0000	1.0577	1.4786	2.2327	3.2392	4.9955	1.2307	1.8327
Limited in work due to a disability	0.4748	0.0000	0.9127	1.4786	1.5434	1.9644	3.8314	0.9965	1.5353
IADLs									
Needs help with routine care needs	0.4606	0.0000	0.8738	1.2916	0.0000	2.8689	4.7904	1.1599	1.7665
ADLs									
Needs help with personal care needs	0.3749	0.0000	0.7314	1.0667	2.0268	0.0000	4.7160	0.9401	1.3774
Difficulty with bathing	0.3054	NA	2.6415	2.8338	2.2495	2.6415	8.5485	2.7982	5.1795
Difficulty with dressing	0.2662	NA	3.1920	3.6461	3.1615	3.1920	10.5012	3.5678	5.8370
Difficulty with eating	0.1940	NA	2.8343	3.2937	3.2270	2.8343	7.3443	3.3151	4.9597
Difficulty with getting into bed or chairs	0.2589	NA	3.2885	3.8832	3.5085	3.2885	11.3919	3.4197	6.5525
Difficulty with using the toilet	0.2221	NA	3.0568	3.4226	3.2671	3.0568	10.5916	3.3877	6.3457
Difficulty with getting around the home	0.2399	NA	3.3362	3.6543	3.4323	3.3362	10.4004	3.5382	6.1824
Mental									
Low Kessler index score ^a	0.6088	0.5873	1.0497	1.4704	2.0993	3.4417	0.0000	1.2505	2.0716
Medium Kessler index score ^b	0.5942	0.5873	1.0116	1.4021	2.1035	3.4494	0.0000	1.1733	1.9310
High Kessler index score ^c	0.2168	0.0000	0.4550	0.6018	0.9257	1.7441	0.0000	0.4856	0.8695
Physical									
Difficulty with/can't									
Walk a quarter of a mile	0.6034	0.0000	1.0499	1.4077	2.1141	3.0398	4.7231	1.2276	1.9486
Walk 10 steps without resting	0.5032	0.0000	0.9329	1.2927	1.9358	3.0392	5.0378	1.2105	1.8752
Stand for 2 hours	0.6402	0.0000	1.0879	1.4571	2.0189	2.8847	4.9271	1.2402	2.0602
Sit for 2 hours	0.3087	0.0000	0.6399	0.9195	1.3728	2.4939	3.0865	0.8557	1.3119
Stoop, bend or kneel	0.5986	0.0000	1.0058	1.3873	2.0781	3.2679	4.9174	1.1565	1.9906
Reach over your head	0.3311	0.0000	0.6540	0.9227	1.6030	2.7082	4.0328	0.8827	1.2848
Grasp small objects	0.3195	0.0000	0.6450	0.8807	1.4639	2.8786	4.6663	0.8674	1.4094
Lift or carry something as heavy as 10 lbs	0.4716	0.0000	0.9302	1.3103	2.0278	3.2297	5.2755	1.1954	1.6212
Push or pull large objects	0.5304	0.0000	0.9967	1.3421	2.0184	3.2645	5.5908	1.2143	1.9194

Table A-8 (continued). Underlying Indicators of Disability Standard Errors, Respondents Aged 65+ (Percentages)

			Disability	ty Participation Restriction		n Activity Impairment Limitation			t
		No	At least 1						
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Sensory									
$Blind^{\mathrm{d}}$	0.1269	0.0000	0.2655	0.4233	0.7581	1.1798	1.2477	0.2826	1.0571
Deaf	0.1397	0.0000	0.2874	0.4143	0.5985	1.1898	0.5752	0.3498	1.1155
Difficulty hearing without hearing aid	0.4857	0.0000	0.9294	1.1836	1.6505	2.3755	4.5050	0.9352	1.4373

a) Kessler index score 0-3

b) Kessler index score 4-12

c) Kessler index score 13+

d) Respondents are only asked this question if they first answered that they had vision trouble. The numbers in this column are the responses conditional on the "lead-in" question.

Table A-9. Health Status Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairment	
		No	At least 1						
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Self-reported health status								-	-
Excellent/very good	0.3843	0.3534	0.8113	0.8377	1.5736	2.6241	1.8411	0.9831	2.4209
Good	0.3084	0.3322	0.8005	1.0805	2.2099	3.3146	1.7336	1.0510	2.5324
Fair/poor	0.2409	0.1548	0.9102	1.1888	2.4396	3.6623	2.0035	1.1873	2.3002
Don't know/refused	0.0193	0.0195	0.0681	0.1056	0.2672	0.0000	0.2589	0.0959	0.3192
Health status compared to 12 months	ago								
Better	0.2978	0.3219	0.7150	0.9073	1.9044	2.8979	1.5228	0.8780	2.1228
About the same	0.3468	0.3534	0.8841	1.0596	2.3205	3.9051	2.1167	1.1527	2.5354
Worse	0.2032	0.1621	0.7738	1.0211	2.4024	3.6165	1.9769	1.0957	2.0577
Don't know/refused	0.0432	0.0461	0.1065	0.1424	0.2990	0.4070	0.2615	0.1060	0.2890
Percentage having difficulty performi	ng an activ	ity and having	g a health pr	oblem ^a					
Vision or Seeing	0.2445	0.2003	0.4283	0.6325	1.4194	1.9356	1.6439	0.5364	2.2765
Hearing	0.1298	0.0392	0.2528	0.3968	1.1662	1.2265	0.9529	0.2967	2.5376
Arthritis	0.6978	0.9265	0.9377	1.1458	2.3674	3.6372	2.1484	1.1058	3.3911
Back or Neck	0.7170	1.0579	1.0328	1.2742	2.4606	3.9109	2.3724	1.1756	3.3707
Fractures, Bone Injury	0.5470	0.8295	0.7050	0.8701	1.4412	2.2001	1.7074	0.7832	2.0595
Other Injury	0.3104	0.4086	0.4456	0.5839	0.9927	1.2845	0.5646	0.5265	1.6334
Heart	0.2911	0.2591	0.5163	0.7407	1.4529	2.1798	1.1918	0.5956	1.9822
Stroke	0.1671	0.0582	0.3329	0.5310	1.3593	1.9866	1.0308	0.4057	1.3766
Hypertension	0.2686	0.2182	0.4785	0.6450	1.2496	2.2109	1.1430	0.5840	2.0639
Diabetes	0.2864	0.1807	0.5200	0.7155	1.2746	2.1491	1.5038	0.6197	1.7787
Lung	0.3949	0.3909	0.6428	0.9446	1.8431	2.7599	1.9202	0.7359	2.4916
Cancer	0.1437	0.1293	0.2421	0.3677	0.7524	1.6273	0.8074	0.2882	1.2339
Birth Defect	0.1119	0.1252	0.1841	0.3020	0.5661	1.1034	0.3161	0.2232	1.3392
MR	0.1305	0.0918	0.2388	0.4019	0.8567	1.7955	0.5322	0.1488	0.9036
Other Developmental	0.0702	0.0502	0.1280	0.1949	0.6374	1.1662	0.3972	0.1276	0.6447
Senility	0.0433	0.0140	0.0842	0.1171	0.2454	0.0000	0.2041	0.0785	0.5323
Depression, Anxiety	0.4345	0.3914	0.6820	0.9424	2.0744	2.7619	2.4139	0.7378	2.8043

Table A-9 (continued). Health Status Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairment	
		No	At least 1						
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Percentage having difficulty performing	ng an								
activity and having a health problem ^a									
Weight	0.3698	0.5618	0.4832	0.6156	1.5035	2.5064	1.3337	0.5622	1.6934
Missing Limb	0.0595	0.0202	0.1161	0.1957	0.3300	0.6656	0.0000	0.1267	0.5898
Other Musculoskeletal	0.5455	0.7837	0.6527	0.8203	1.8700	2.4644	1.4164	0.7628	2.4189
Other Circulatory	0.2075	0.2469	0.3445	0.4592	0.8787	1.5979	0.7428	0.3999	1.2208
Other Endocrine	0.1224	0.1126	0.2169	0.3475	0.5553	1.0123	1.0615	0.2694	0.5640
Other Nervous	0.3352	0.3744	0.5258	0.7818	1.8913	3.1382	1.1103	0.6158	1.8315
Digestive	0.1328	0.1146	0.2385	0.3047	0.7208	0.9150	0.6396	0.2705	0.9550
Genitourinary	0.1701	0.1834	0.2644	0.3688	0.9972	1.1154	0.5074	0.3163	1.4870
Skin	0.0431	0.0622	0.0596	0.1006	0.1543	0.0000	0.0906	0.0763	0.2595
Blood	0.0413	0.0280	0.0765	0.1153	0.3552	0.8138	0.3095	0.0921	0.0000
Tumors, Cysts	0.0591	0.0524	0.1045	0.1480	0.4908	0.5259	0.2730	0.1258	0.5871
Alcohol and Drugs	NA	NA	0.0363	0.0617	0.1952	0.4487	0.1964	0.0314	NA
Other Mental	0.0916	0.1447	0.1132	0.1897	0.5365	0.4143	0.2983	0.0990	NA
Effects from Surgery	0.1042	0.0918	0.1852	0.1871	0.6475	0.4536	0.2249	0.2042	0.7250
Old Age	0.1138	0.2193	0.0829	0.0614	0.1222	0.2817	0.0000	0.0783	0.5052
Fatigue	0.1371	0.2286	0.1644	0.2586	0.3843	0.1666	0.7942	0.2038	0.6083
Pregnancy-Related	0.1724	0.2690	0.2177	0.1124	0.4133	NA	0.7422	0.2037	NA
BMI									
Underweight	0.0930	0.0995	0.2190	0.3104	0.8122	1.6276	0.6704	0.2998	0.5811
Normal	0.3798	0.4116	0.7609	0.9907	2.1750	3.4194	1.7180	0.9078	2.3071
Overweight	0.3646	0.3835	0.8590	1.0642	1.9211	2.7576	1.8832	1.0434	2.4442
Mild Obesity	0.2528	0.2757	0.6289	0.8259	1.8391	3.0741	1.4019	0.8505	2.1200
Moderate Obesity	0.1594	0.1577	0.4979	0.6921	1.5468	1.9739	1.1697	0.6576	1.7924
Severe Obesity	0.1276	0.1192	0.4729	0.5731	1.4051	2.2636	0.8434	0.7092	1.2735
Missing	0.1898	0.2024	0.4104	0.5010	1.2148	2.1084	0.8851	0.5077	0.8712

Table A-10. Health Status Standard Errors, Respondents Aged 65+ (Percentages)

			Disability	Participation F	Restriction	Activity Limitation		Impairment	t
		No	At least 1			Zimitation			
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Self-reported health status								-	
Excellent/very good	0.8448	1.0796	0.9715	1.0774	1.1162	1.5445	5.2455	0.9850	1.6927
Good	0.7429	1.0023	1.0440	1.3728	1.7287	2.6827	3.9455	1.1962	2.0369
Fair/poor	0.7289	0.6909	1.1638	1.4081	1.9101	2.6190	5.3979	1.3939	2.2766
Don't know/refused	0.0690	0.0668	0.1199	0.2092	0.3973	0.1841	0.0000	0.1522	0.0953
Health status compared to 12 months	ago								
Better	0.4780	0.6845	0.6916	1.0167	1.3832	2.2849	3.5739	0.8402	1.4503
About the same	0.6461	0.7873	0.9747	1.3240	2.0679	3.0537	5.2920	1.1996	2.2038
Worse	0.5127	0.4959	0.8729	1.1291	1.9013	3.0409	5.1263	1.0890	1.9421
Don't know/refused	0.0898	0.1185	0.1406	0.2229	0.2889	0.4545	0.0000	0.1823	0.2597
Percentage having difficulty perform	ing an activity	and having a	a health prob	olem ^a					
Vision or Seeing	0.5511	0.5234	0.7413	1.1247	1.6666	2.7057	5.0610	0.8331	1.9716
Hearing	0.3575	0.3145	0.4951	0.6773	0.9502	1.3942	3.3404	0.4869	1.8605
Arthritis	0.9050	1.7512	1.0591	1.4702	2.0820	3.1974	4.8380	1.1801	2.2863
Back or Neck	0.7119	1.1645	0.8649	1.1090	1.5753	2.3326	4.0856	0.9334	1.9212
Fractures, Bone Injury	0.5426	0.9723	0.6783	0.9252	1.4217	2.3072	3.3992	0.7816	1.4898
Other Injury	0.3009	0.5328	0.3791	0.6659	0.7048	1.2895	1.5709	0.4243	0.7846
Heart	0.7220	0.7956	0.9340	1.1940	1.7588	2.9541	4.2750	1.0615	1.7332
Stroke	0.3707	0.3463	0.5282	0.8732	1.6722	2.7884	3.6584	0.5953	1.2417
Hypertension	0.4732	0.4832	0.6161	0.8467	1.2313	2.0472	3.4864	0.7015	1.1954
Diabetes	0.3976	0.4854	0.5221	0.8725	1.2243	1.7850	3.9523	0.6061	1.1656
Lung	0.5694	0.7798	0.6931	1.1027	1.1925	1.5971	3.2772	0.7672	1.6259
Cancer	0.3002	0.3313	0.4027	0.6154	0.9396	1.5394	3.0093	0.4746	0.9550
Birth Defect	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MR	0.0431	0.0000	0.0628	0.1215	0.0000	0.0000	0.0000	0.0760	0.0000
Other Developmental	0.0197	0.0000	0.0287	0.0000	0.0000	0.0000	0.0000	0.0348	0.0000
Senility	0.2469	0.2898	0.3447	0.5224	0.9857	1.8494	2.3995	0.3668	0.8759
Depression, Anxiety	0.2939	0.3036	0.3922	0.5256	0.8237	1.3091	4.7798	0.4264	0.7533

Table A-10 (continued). Health Status Standard Errors, Respondents Aged 65+ (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Percentage having difficulty per	forming an activity	and having a	a health prob	olem ^a					
Weight	0.3561	0.6139	0.4241	0.5327	0.6513	0.9286	2.8742	0.4965	1.0642
Missing Limb	0.1048	0.0000	0.1526	0.2546	0.4752	0.8021	0.4194	0.1849	0.3205
Other Musculoskeletal	0.5760	1.0847	0.6651	0.8780	1.1243	1.2390	2.1428	0.7636	1.2474
Other Circulatory	0.3772	0.6590	0.4926	0.7231	1.0310	1.7323	1.3980	0.5388	1.0300
Other Endocrine	0.1090	0.0927	0.1523	0.2580	0.3985	0.6594	0.9508	0.1750	0.3420
Other Nervous	0.3622	0.4638	0.4869	0.7546	1.0210	1.9181	2.6873	0.5537	1.0084
Digestive	0.1515	0.3170	0.1672	0.2422	0.3267	0.3955	0.0000	0.2028	0.4844
Genitourinary	0.1717	0.2263	0.2285	0.4173	0.6044	1.2252	1.5801	0.2726	0.4735
Skin	0.0486	0.0000	0.0706	0.0533	0.1045	0.0000	0.6625	0.0857	0.1259
Blood	0.0607	0.1144	0.0716	0.0000	0.0000	0.0000	0.0000	0.0868	0.0000
Tumors, Cysts	0.0414	0.0000	0.0604	0.1166	0.0349	0.0704	0.0000	0.0731	0.0000
Alcohol and Drugs	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other Mental	NA	NA	NA	NA	NA	NA	NA	NA	NA
Effects from Surgery	0.1074	0.0000	0.1557	0.2594	0.3680	0.6783	0.8424	0.1591	0.2759
Old Age	0.3807	0.8122	0.4345	0.6153	1.0055	1.5684	0.9187	0.4565	0.9657
Fatigue	0.1817	0.2770	0.2296	0.3294	0.5393	0.9814	0.0000	0.2183	0.6345
Pregnancy-Related	NA	NA	NA	NA	NA	NA	NA	NA	NA
BMI									
Underweight	0.1874	0.2485	0.3090	0.4365	0.7102	1.3037	2.1981	0.4082	0.7197
Normal	0.7720	1.0378	1.0567	1.3400	1.9894	3.2651	5.6878	1.1856	1.9633
Overweight	0.6357	1.0240	0.9647	1.1971	1.7238	2.9160	4.5446	1.1247	2.0091
Mild Obesity	0.5287	0.7236	0.7966	1.1376	1.3786	2.0748	3.9523	0.9528	1.5109
Moderate Obesity	0.3171	0.2940	0.5491	0.7507	0.9547	1.3342	1.6992	0.6856	0.9558
Severe Obesity	0.2142	0.1548	0.4090	0.4816	1.0824	1.1072	2.5497	0.5463	0.4808
Missing	0.2929	0.4382	0.3917	0.5702	1.0363	1.3014	1.1440	0.4714	0.7804

Table A-11. Health Care Utilization Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation F	Restriction	Activity Limitation		Impairment	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Usual place to go when sick	Total	Disability	of the o	Employment	IADLS	ADLS	Mentai	Tilysical	Selisoi y
Clinic or health center	0.4404	0.4523	0.8605	1.0918	1.8317	2.5002	1.8594	0.9777	1.9626
HMO	0.4773	0.4925	0.8003	1.1854	2.0288	2.8252	2.1205	1.0788	2.2571
Hospital emergency room	0.0886	0.0969	0.2159	0.2327	0.2189	0.3133	0.7094	0.2584	0.5240
Hospital outpatient department	0.1012	0.1027	0.2675	0.3962	0.8712	1.2609	0.7337	0.3244	0.8142
Other	0.0776	0.0710	0.2532	0.2959	0.4734	0.5240	0.8122	0.2460	0.6778
Doesn't go to one place	0.0775	0.0918	0.0833	0.1124	0.0764	0.0000	0.2312	0.0907	0.0000
Don't know/refused	0.0331	0.0395	0.0237	0.0399	0.0726	0.0000	0.0000	0.0162	0.0000
Place to go for routine or preventive care, if	different fr	om usual							
Doesn't receive preventive care anywhere	0.9696	1.0092	2.2628	2.9855	6.2745	10.6692	4.0507	3.0011	5.9359
Clinic or health center	0.5034	0.5465	1.2188	1.5156	3.8415	6.3873	2.3799	1.9433	2.6017
HMO	0.6961	0.7208	1.9209	2.6197	4.9215	5.6953	3.5237	2.5917	4.9471
Hospital emergency room	0.2514	0.2582	0.8025	1.1781	1.2654	3.0856	1.5516	1.1718	2.1572
Hospital outpatient department	0.1422	0.1563	0.4130	0.6279	1.9712	7.5593	0.7228	0.6561	1.1228
Other	0.2112	0.2170	0.7170	1.2513	1.3785	4.0523	1.2603	1.0352	1.7924
Doesn't go to one place most often	0.4363	0.4595	1.1824	1.4201	3.0387	0.0000	2.3061	1.8162	2.6568
Don't know/refused	0.3231	0.3544	0.9127	1.3056	2.9052	1.9989	1.0568	1.3743	3.4081
Seen/talked to in the past 12 months									
Mental Health Professional	0.1902	0.1787	0.7266	1.0423	2.3120	3.5667	2.0256	0.8791	1.7235
Eye Doctor	0.3725	0.4169	0.8934	1.1188	2.1805	3.3209	1.9358	1.1443	2.7838
Foot Doctor	0.1544	0.1491	0.5798	0.7075	1.5495	2.4471	1.3273	0.8003	1.6757
Chiropractor	0.2054	0.2311	0.5910	0.7610	1.2713	1.6296	1.3757	0.8141	1.5497
Therapist (PT/OT)	0.1972	0.1747	0.7564	0.9474	2.0325	3.6908	1.5940	1.0511	1.9355
Nurse Practitioner	0.2693	0.3033	0.7021	0.9391	2.1624	3.0588	1.6782	0.9337	2.0659
OB/GYN	0.5688	0.6311	1.2186	1.5517	2.8680	4.2280	2.4684	1.4979	3.7754
Medical Specialist	0.3211	0.3272	0.9826	1.2719	2.4518	3.9508	2.0484	1.1999	2.8059
General Doctor	0.4217	0.4794	0.7694	0.9089	1.6752	2.0025	1.9517	0.9132	2.2541

Table A-11 (continued). Health Care Utilization Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairment	t
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Number of times in ER in past 12 months									
0	0.3013	0.3161	0.8838	1.1061	2.5659	3.8801	2.1809	1.1660	2.4010
At least 1 time	0.2899	0.3054	0.8778	1.0999	2.5502	3.8782	2.1594	1.1589	2.3998
1	0.2467	0.2633	0.7052	0.9478	1.6969	2.7500	1.5991	0.8814	2.0161
2-3	0.1665	0.1610	0.6078	0.7426	1.8190	3.1134	1.4866	0.7727	1.4413
4-9	0.0951	0.0795	0.4329	0.6171	1.4102	2.3660	1.2971	0.6074	1.3964
10+	0.0306	0.0198	0.1504	0.2356	0.7013	1.0532	0.5369	0.2157	0.4085
Don't know/refused	0.0811	0.0929	0.1832	0.2711	0.4013	0.5667	0.2868	0.1725	0.4515
Receive at home care in past year?	0.0703	0.0518	0.3373	0.5159	1.5696	3.1907	0.7358	0.4743	0.9676
Number of months received at home care									
1-3 months	3.1826	2.3542	4.0382	4.4504	5.8531	6.4158	8.7248	4.4269	13.0401
4-6 months	1.7083	0.0000	2.5162	2.7310	3.3526	4.1441	6.2708	2.4154	6.5951
7-9 months	0.3163	0.9494	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10-12 months	2.9383	2.1601	3.7799	4.1783	5.8239	6.6056	7.9268	4.2996	12.6144
Don't know/refused	0.2141	0.0000	0.3167	0.3821	0.6494	0.8013	0.0000	0.4030	0.0000
Total number of home visits in past 12 mont	hs								
1	2.9367	7.0579	1.8541	1.0426	2.0192	0.8256	5.5026	1.8750	3.3699
2-3	2.8060	6.0649	2.7954	2.4536	1.8115	1.7574	5.9078	3.1381	10.5905
4-9	2.8574	4.1965	3.7707	4.1163	4.8298	4.8574	6.1116	4.1260	10.0709
10+	3.4179	4.4923	4.2591	4.6079	5.2442	5.1178	8.4273	4.5842	12.8867
Don't know/refused	0.2141	0.0000	0.3167	0.3821	0.6494	0.8013	0.0000	0.4030	0.0000
Number of office visits in the past 12 months									
0	0.3237	0.3691	0.5260	0.5603	1.0177	0.8684	1.4270	0.5232	1.8688
At least 1 time	0.3300	0.3829	0.6101	0.7332	1.1059	1.0978	1.4787	0.6775	1.9598
1	0.3012	0.3485	0.4321	0.4948	0.7744	0.8093	0.8132	0.4951	1.5264
2-3	0.3476	0.4100	0.7130	0.8157	1.5566	3.0461	1.5565	0.8128	1.8732
4-9	0.3008	0.3397	0.8391	1.1000	2.1622	3.3399	1.5726	1.0165	2.3734
10+	0.2414	0.2350	0.7830	1.1946	2.4098	3.8954	1.9871	1.0447	2.6212
Don't know/refused	0.1343	0.1430	0.3157	0.4991	0.4739	0.6855	0.5274	0.3764	0.7094

Table A-11 (continued). Health Care Utilization Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairment	;
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Health care delayed due to cost in the past 12 months	0.2132	0.1943	0.7253	0.9882	1.9423	3.0142	1.9526	0.9781	2.0701
Needed, didn't receive health care due to cost (past year)	0.1822	0.1600	0.6538	0.8564	1.7151	2.4759	1.6493	0.8354	1.7594
Can't afford mental care/counseling in past 12 months	0.1077	0.0902	0.5015	0.6024	1.3218	1.9037	1.7048	0.5496	1.1824
Was in hospital overnight in the past 12 months	0.1928	0.1728	0.7313	1.0424	2.2684	3.6002	1.9223	0.9927	1.8952
Number of nights in hospital									
1	1.1184	1.4673	1.5130	1.6870	2.3190	2.8674	2.8345	1.8513	3.8626
2-9	1.1815	1.5025	2.0085	2.3178	3.8568	6.0955	4.0768	2.4788	5.3601
10-59	0.7841	0.7238	1.6768	1.9644	3.8762	5.6302	3.3321	2.1225	4.2986
60+	0.2151	0.1407	0.5156	0.7044	0.9990	1.7748	0.7661	0.6421	0.7950
Don't know/refused	0.2227	0.2333	0.4371	0.5986	1.4266	1.8558	1.3008	0.5485	2.7610
Received care 10+ times in the past 12 months	0.2242	0.1863	0.8497	1.1997	2.4002	3.7259	1.9320	1.1033	2.5563

Table A-12. Health Care Utilization Standard Errors, Respondents Aged 65+ (Percentages)

			Disability	Participation F	Restriction	Activity Limitation	,	Impairmen	t
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Usual place to go when sick									
Clinic or health center	0.6312	0.7695	0.8797	1.0998	1.3499	1.7559	3.1744	0.9373	1.7046
НМО	0.6654	0.8309	0.9255	1.1480	1.5116	2.1205	3.2410	0.9989	1.8258
Hospital emergency room	0.0785	0.0675	0.1453	0.2066	0.2010	0.1757	0.0000	0.1981	0.4192
Hospital outpatient department	0.2070	0.2811	0.2881	0.4228	0.5577	0.9911	0.9731	0.3818	0.5015
Other	0.0774	0.0770	0.1372	0.1243	0.1422	0.2100	0.8534	0.1488	0.4164
Doesn't go to one place	0.0800	0.1453	0.0554	0.0864	0.0000	0.0000	0.0000	0.0516	0.0995
Don't know/refused	0.0360	0.0000	0.0745	0.0889	0.1796	0.3622	0.0000	0.0305	0.2186
Place to go for routine or preventive care, i	f different fr	om usual							
Doesn't receive preventive care anywhere	2.5350	3.2975	3.7804	4.3276	7.8617	9.9698	10.8360	4.1521	8.8985
Clinic or health center	1.8713	2.5410	2.7252	4.0346	4.8554	6.4233	10.7171	3.8201	5.3604
НМО	2.6804	3.4092	3.9663	5.1459	7.1502	10.0190	13.8185	4.9049	6.3358
Hospital emergency room	0.6439	0.8951	0.8704	0.0000	0.0000	0.0000	0.0000	1.3480	0.0000
Hospital outpatient department	0.7345	0.8162	1.3711	1.6972	1.4776	1.7423	0.0000	1.4011	4.4552
Other	0.8133	0.7447	1.7233	2.2701	2.8498	6.0378	0.0000	1.9742	3.8241
Doesn't go to one place most often	1.1022	1.5617	1.5054	2.0655	2.2237	2.1147	0.0000	1.3526	3.2421
Don't know/refused	1.5990	1.8600	3.1525	4.4868	7.4899	5.8817	7.3942	3.5799	7.6199
Seen/talked to in the past 12 months									
Mental Health Professional	0.2330	0.2022	0.4540	0.6793	1.2321	1.8307	4.0749	0.8791	1.0724
Eye Doctor	0.7800	1.1043	1.0015	1.4706	2.1285	3.1798	5.2564	1.1443	2.2697
Foot Doctor	0.5437	0.5995	0.9431	1.0478	1.6721	2.9174	4.0835	0.8003	1.8960
Chiropractor	0.3734	0.5284	0.5838	0.7980	1.1203	1.5554	2.1157	0.8141	1.0163
Therapist (PT/OT)	0.4845	0.4648	0.8678	1.1469	1.8500	3.2202	4.9776	1.0511	1.7644
Nurse Practitioner	0.5243	0.6133	0.8089	1.0868	1.5802	2.5033	2.7956	0.9337	1.7052
OB/GYN	0.7215	1.1176	0.8602	1.2461	1.3913	2.3252	4.0435	0.9761	1.6634
Medical Specialist	0.7890	1.0800	0.9985	1.3547	1.8183	3.0986	5.2054	1.1999	2.3098
General Doctor	0.5380	0.8350	0.6717	0.8910	1.1487	1.8878	2.8802	0.9132	1.5426

Table A-12 (continued). Health Care Utilization Standard Errors, Respondents Aged 65+ (Percentages)

			Disability	Participation R	Restriction	Activity Limitation	Impairment		
		No	At least 1						
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Number of times in ER in past 12 months	3								
0	0.6421	0.7472	1.0295	1.3812	2.0542	3.0744	5.2961	1.1660	2.1037
At least 1 time	0.6232	0.7161	1.0124	1.3693	1.9914	3.0310	5.0878	1.1732	2.0998
1	0.5563	0.6482	0.8598	1.2387	1.6965	2.7815	4.3608	0.8814	1.7021
2-3	0.3664	0.4246	0.5947	0.7636	1.3250	2.2989	3.1630	0.7727	1.2710
4-9	0.1941	0.1410	0.3701	0.5723	1.0636	1.8528	1.6518	0.6074	0.7459
10+	0.0759	0.0754	0.1507	0.2895	0.4712	0.5823	0.7445	0.2157	0.2414
Don't know/refused	0.1600	0.2418	0.2206	0.3144	0.4315	0.7740	1.3828	0.1725	0.4808
Receive at home care in past year?	0.3843	0.2262	0.7234	1.0444	2.0548	3.3238	4.1690	0.4743	1.3614
Number of months received at home care	:								
1-3 months	2.7680	5.9850	2.9206	3.5924	3.6997	4.7386	8.2211	3.1297	5.8473
4-6 months	1.6521	5.6073	1.8589	2.5174	2.4131	3.0116	2.5950	2.0623	4.2770
7-9 months	0.8753	0.0000	0.9554	0.8334	1.1362	1.0997	0.0000	1.0045	2.5089
10-12 months	2.4823	2.1761	2.6694	3.4872	3.5704	4.6767	5.6674	2.9360	5.7561
Don't know/refused	0.7969	0.0000	0.8723	1.3168	1.1740	1.2364	5.8966	1.0759	2.2452
Total number of home visits in past 12 m	onths								
1	1.7638	6.6751	1.8320	1.7381	1.5120	3.2295	5.2833	1.9671	2.9975
2-3	1.9817	9.6348	1.9280	1.7029	1.6008	2.1354	9.4425	2.2386	3.4165
4-9	2.6495	10.5164	2.5987	3.3803	2.9030	3.4221	10.7745	2.7083	4.8575
10+	2.9188	10.2186	2.9991	3.6214	3.3181	4.5048	12.9114	3.2222	5.7936
Don't know/refused	0.8679	3.7075	0.8901	1.3373	1.3678	1.5194	1.4774	1.0691	1.9319
Number of office visits in the past 12 mor	nths								
0	0.4356	0.7007	0.4835	0.6949	1.0481	1.6295	2.3915	0.5232	1.1643
At least 1 time	0.5096	0.7733	0.6370	0.9806	1.3364	2.0884	2.7709	0.6930	1.4528
1	0.4456	0.6938	0.4920	0.6317	0.9581	1.6593	3.4697	0.4951	1.0717
2-3	0.6059	0.9114	0.7827	1.0686	1.1475	2.1103	4.4811	0.8128	1.5501
4-9	0.7902	1.0011	1.0946	1.4989	1.9853	3.0536	5.1076	1.0165	2.0400
10+	0.6051	0.6331	0.9458	1.2878	2.1106	3.2770	4.6766	1.0447	1.7547
Don't know/refused	0.2805	0.3319	0.4350	0.6788	1.0071	1.3845	1.5697	0.3764	0.8308

Table A-12 (continued). Health Care Utilization Standard Errors, Respondents Aged 65+ (Percentages)

			Disability	Participation R	Restriction	Activity Limitation		Impairment	
		No	At least 1			Limitation			
	Total	Disability	of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Health care delayed due to cost in the past 12 months	0.2743	0.3584	0.4350	0.6190	0.9513	1.6905	3.8300	0.9781	0.9334
Needed, didn't receive health care due to cost (past year)	0.2155	0.2550	0.3675	0.5436	0.8208	1.3516	2.7629	0.8354	0.8024
Can't afford mental care/counseling in past 12 months	0.1352	0.1906	0.1992	0.2102	0.3694	0.4425	2.6984	0.5496	0.4683
Was in hospital overnight in the past 12 months	0.5990	0.6481	1.0392	1.3942	2.0945	3.2271	4.6253	0.9927	1.8715
Number of nights in hospital									
1	1.1573	2.4657	1.2494	1.5864	1.5657	2.2925	5.1268	1.3640	2.4994
2-9	1.6109	2.8325	1.9228	2.4489	3.0652	4.6612	9.0012	2.1067	4.1405
10-59	1.3349	2.1136	1.6611	2.2189	2.9969	4.5962	8.4862	1.9515	3.9312
60+	0.4324	0.3745	0.6028	0.9560	1.5220	2.1305	3.0995	0.6368	1.4883
Don't know/refused	0.5258	1.1627	0.4840	0.8150	0.8705	1.0249	0.0000	0.6005	0.6524
Received care 10+ times in the past 12 months	0.6005	0.6686	0.9744	1.3866	2.0748	3.0232	4.9479	1.1033	1.9655

Table A-13. Health Insurance Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation I	Restriction	Activity Limitation		Impairment	
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
All Families									
Amount family spent on health	h care in past 12	months ^a							
\$0	0.2760	0.2922	0.5573	0.7706	1.2317	1.8442	1.3108	0.6772	1.4300
Less than \$500	0.4437	0.5008	0.7646	1.0429	2.0888	3.3834	1.7820	0.9347	2.6372
\$500-\$1,999	0.3762	0.4086	0.9206	1.1882	2.0015	3.2339	1.9845	1.1090	2.5436
\$2,000-\$2,999	0.2169	0.2290	0.5997	0.7340	1.4402	2.2150	1.3967	0.7755	1.6925
\$3,000-\$4,999	0.1629	0.1625	0.5067	0.7050	1.3820	1.9278	0.9792	0.6631	1.5696
\$5,000 and greater	0.1392	0.1451	0.4660	0.5945	1.2155	2.7849	1.2024	0.6034	1.0553
Don't know/refused	0.1412	0.1573	0.3633	0.4405	1.0618	1.5922	0.6066	0.4730	1.3050
Multi-person Families									
Amount family spent on health	h care in past 12	months ^a							
\$0	0.2364	0.2403	0.5757	0.8047	1.1729	1.6012	1.4740	0.7234	1.5486
Less than \$500	0.4899	0.5380	0.8871	1.2530	2.6443	4.0949	2.0657	1.0911	2.9618
\$500-\$1,999	0.4248	0.4506	1.0922	1.4805	2.5987	4.1329	2.4043	1.3283	2.8580
\$2,000-\$2,999	0.2464	0.2602	0.7132	0.9027	1.9098	2.8195	1.6810	0.9447	1.8077
\$3,000-\$4,999	0.1889	0.1886	0.6035	0.8759	1.8467	2.5422	1.1812	0.7891	1.8662
\$5,000 and greater	0.1630	0.1691	0.5669	0.7768	1.5305	3.6084	1.4600	0.7319	1.2712
Don't know/refused	0.1597	0.1779	0.4263	0.5479	1.3545	1.9926	0.7033	0.5483	1.5731
Single Person Families									
Amount family spent on health	h care in past 12	months ^a							
\$0	0.9736	1.1543	1.3296	1.6383	2.9032	4.9704	2.4823	1.5243	3.3781
Less than \$500	1.0011	1.1951	1.4670	1.7520	3.4416	4.8677	3.0084	1.8944	4.1971
\$500-\$1,999	0.5853	0.6302	1.2755	1.4696	2.7038	3.1296	2.5291	1.5965	3.6672
\$2,000-\$2,999	0.2408	0.2216	0.7740	0.9084	1.5979	2.5774	1.6713	0.9757	2.9725
\$3,000-\$4,999	0.1674	0.1742	0.5496	0.6425	1.2567	2.2071	1.3928	0.7701	1.3949
\$5,000 and greater	0.1336	0.1118	0.5137	0.6195	1.6577	2.4657	1.1457	0.6919	1.6742
Don't know/refused	0.2207	0.2527	0.4921	0.5226	1.3791	2.1079	1.1962	0.6757	1.1413

Table A-13 (continued). Health Insurance Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation I	Restriction	Activity Limitation		Impairment	
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
No health insurance in past 12 months, if currently insured	5.3291	0.2058	0.5501	0.6269	1.0611	1.6233	1.6390	0.6487	0.6487
Number of months without health in	surance g	iven a period w	ithout healt	h insurance in pa	ast 12 mont	hs			
1-3 months	1.5683	1.8095	3.3003	4.4661	9.0948	17.7970	7.6117	4.6748	4.6748
4-6 months	1.5402	1.7220	3.1732	4.4012	9.9391	16.9066	6.5135	4.1120	4.1120
7-9 months	1.0519	1.1916	2.2436	3.0195	6.6943	0.0000	5.7178	2.9149	2.9149
10-12 months	1.3493	1.4582	3.0297	3.3896	6.4468	14.4918	5.5090	4.1791	4.1791
Don't know/refused	0.2758	0.3467	0.0682	0.1271	0.5902	0.0000	0.0000	0.1185	0.1185
Source of health insurance									
Private only	0.4208	0.4043	0.9929	1.2137	2.3230	3.3874	2.0419	1.2615	1.2615
Public only	0.2485	0.2004	0.8318	1.1469	2.3902	3.3489	2.0949	1.0865	1.0865
Public and private	0.2724	0.3836	0.4379	0.6713	2.1915	2.2284	1.0038	0.4946	1.7800
Single service plan	0.0978	0.0836	0.1740	0.2714	NA	NA	0.2069	0.2093	NA
Uninsured	0.2972	0.3283	0.6578	0.8332	1.5486	2.0672	1.7339	0.8030	0.8030
Unknown	0.0583	0.0666	0.1071	0.1401	0.3441	0.5771	0.1849	0.1085	0.1085

a) Family medical spending excludes costs associated with insurance premiums, over-the-counter medicine, or reimbursed costs

Table A-14. Health Insurance Standard Errors, Respondents Aged 65+

			Disability	Participation R	estriction	Activity Limitation		Impairment	
	7 5. 4. 1	No Disability		E l a	TADI	4.57	3.5 3	D1 1 1	G
	Total		of the 6	Employment ^a	IADLs	ADLs	Mental	Physical	Sensory
All Families		9							
Amount family spent on health care	=		0.5105	0.5005	0.0220	1.0045	2 25 4 4	0.5404	1.0100
\$0	0.4268	0.6136	0.5127	0.7087	0.8220	1.8847	2.2544	0.6424	1.0180
Less than \$500	0.7249	1.0532	0.9452	1.4509	2.0006	2.5497	5.3164	1.1062	1.9158
\$500-\$1,999	0.7115	0.9445	1.0114	1.3843	1.9696	3.1453	4.0515	1.2055	2.0748
\$2,000-\$2,999	0.4583	0.5855	0.6896	0.8747	1.3149	2.0827	3.1969	0.8422	1.3213
\$3,000-\$4,999	0.3621	0.5105	0.5096	0.7099	0.9317	1.7700	3.1347	0.6443	1.2292
\$5,000 and greater	0.3409	0.4718	0.5107	0.7171	1.1679	1.8583	3.1560	0.5750	1.0767
Don't know/refused	0.2913	0.3929	0.4391	0.7005	1.0263	1.5876	2.0014	0.5109	0.9636
Multi-person Families									
Amount family spent on health care	e in past 12	months ^a							
\$0	0.4714	0.6713	0.6265	0.8242	1.0024	2.2767	3.1204	0.8003	1.3617
Less than \$500	0.9206	1.3176	1.2471	1.8359	2.8742	3.0796	7.5763	1.4260	2.5590
\$500-\$1,999	0.9883	1.2569	1.4707	2.0598	3.1775	4.2828	5.4601	1.7137	2.9244
\$2,000-\$2,999	0.6539	0.7945	1.0315	1.3818	2.2404	2.8380	4.9616	1.2527	1.9514
\$3,000-\$4,999	0.5212	0.7035	0.7874	1.1253	1.6725	2.5320	4.6657	0.9694	1.7846
\$5,000 and greater	0.4852	0.6556	0.7605	1.1167	2.0774	2.5928	4.5608	0.8448	1.5288
Don't know/refused	0.3656	0.4906	0.5988	1.0034	1.5664	1.9876	2.8855	0.6967	1.3196
Single Person Families									
Amount family spent on health care	e in past 12	months ^a							
\$0	0.7304	1.0249	0.8588	1.2017	1.3734	3.3566	2.8634	1.0007	1.7503
Less than \$500	0.9028	1.3594	1.2781	1.9023	2.2606	4.2349	6.1422	1.4308	2.5804
\$500-\$1,999	0.8107	1.2372	1.0950	1.5778	1.8603	3.1723	5.1503	1.2936	2.4486
\$2,000-\$2,999	0.4042	0.5450	0.6207	0.7886	1.0132	1.8819	1.3189	0.7609	1.2531
\$3,000-\$4,999	0.3052	0.3776	0.4587	0.7025	0.7844	1.0498	2.5618	0.5322	1.2675
\$5,000 and greater	0.2957	0.2736	0.4479	0.5632	0.7851	1.5218	3.7930	0.5697	0.9276
Don't know/refused	0.3951	0.5063	0.5886	0.8776	1.1955	2.5591	2.0820	0.6456	1.1557

Table A-14 (continued). Health Insurance Standard Errors, Respondents Aged 65+

			Disability	Participation R	estriction	Activity Limitation		Impairment	
	Total	No Disability	At least 1 of the 6	Employment ^a	IADLs	ADLs	Mental	Physical	Sensory
No health insurance in past 12 months, if currently insured	0.0923	0.1427	0.1032	0.1506	0.1345	0.0000	0.0000	0.1297	0.1297
Number of months without health in	nsurance gi	ven a period wi	thout health	insurance in pas	st 12 month	ıs			
1-3 months	8.8776	13.4094	10.8928	9.8799	33.1992	NA	NA	8.5300	8.5300
4-6 months	4.9743	2.9117	11.3395	0.0000	0.0000	NA	NA	13.9287	13.9287
7-9 months	8.9789	8.0477	14.9435	22.2585	33.1992	NA	NA	17.2874	17.2874
10-12 months	12.0673	14.5876	12.8871	21.0926	0.0000	NA	NA	14.2972	14.2972
Don't know/refused	0.0000	0.0000	0.0000	0.0000	0.0000	NA	NA	0.0000	0.0000
Source of health insurance									
Private only	0.3245	0.5262	0.4018	0.5387	0.6478	0.7634	1.5105	0.4028	0.4028
Public only	0.8083	1.0587	1.1050	1.4272	2.2257	3.3043	4.8341	1.2566	1.2566
Public and private	0.9885	1.1488	1.1531	1.5259	2.3075	3.4659	2.9982	1.2641	2.5128
Single service plan	0.0457	NA	0.0665	0.1287	NA	NA	NA	0.0907	NA
Uninsured	0.1640	0.2719	0.1738	0.2324	0.4624	0.7835	1.5678	0.1729	0.1729
Unknown	0.0675	0.0944	0.0969	0.1260	0.1331	0.2220	0.0000	0.1206	0.1206

a) Family medical spending excludes costs associated with insurance premiums, over-the-counter medicine, or reimbursed costs

Table A-15. Special Equipment Standard Errors, Respondents Aged 18-64 (Percentages)

			Disability	Participation I	Restriction	Activity Limitation		Impairment	
	Total	No Disability	At least 1 of the 6	Employment	IADLs	ADLs	Mental	Physical	Sensory
Have health care problem that requires special equipment	0.1260	0.0573	0.6709	0.9966	2.2705	3.7741	1.4914	0.9779	2.0252
Now use special equipment/assistance device	0.1349	0.0762	0.7221	1.0014	2.3432	3.9140	1.5744	1.0283	2.2350
Know of special equipment that would help	0.1089	0.0624	0.5135	0.7853	2.0196	3.4352	1.3144	0.7540	1.9213
Have difficulty without this special device									
Always	2.2501	3.8541	2.6065	2.9141	4.4302	6.6691	6.5238	2.9845	2.9845
Often	2.4168	3.3116	2.7449	2.8968	4.3051	6.1332	5.7805	2.9955	2.9955
Sometimes	2.2201	5.0612	2.3650	2.6359	3.8748	4.5413	2.7315	2.6576	2.6576
Rarely	1.5149	4.7103	1.3485	1.6002	2.7498	4.1842	1.4949	1.4608	1.4608
Never	1.1603	4.2697	0.6836	0.5121	0.4183	1.1393	0.0000	0.6399	0.6399
Don't Know	0.7042	1.1712	0.8360	1.0294	0.4330	0.9063	2.4369	0.8405	0.8405
Ever worn a hearing aid	0.0651	0.0472	0.3378	0.4224	0.8818	1.1066	0.5147	0.3724	2.3086
Frequency of wearing a hearing aid									
Always	3.0556	4.6990	4.0056	6.0494	8.8574	11.9594	13.2145	6.5185	6.5185
Most of the time	1.9538	2.6451	2.6357	4.4093	10.8144	17.8642	6.6258	4.5796	4.5796
Some of the time	3.1246	6.0144	3.5260	5.3612	3.3304	14.1531	8.5306	6.2385	6.2385
None of the time	3.4580	6.4764	3.9257	6.7357	10.2865	15.0973	14.0786	5.1352	5.1352
Don't know	0.2306	0.6594	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table A-16. Special Equipment Standard Errors, Respondents Aged 65+

			Disability	Participation R	Restriction	Activity Limitation		Impairment	t
	Total	No Disability	At least 1 of the 6	Employment ^a	IADLs	ADLs	Mental	Physical	Sensory
Have health care problem that requires special equipment	0.5992	0.2842	1.0272	1.3921	1.9223	2.4331	5.2041	1.2228	1.9801
Now use special equipment/assistance device	0.6145	0.3586	1.0598	1.4251	2.0282	2.7657	4.9948	1.2572	2.1844
Know of special equipment that would help	0.2759	0.2061	0.5586	0.8480	1.2842	2.1440	3.7375	0.6612	1.2856
Have difficulty without this special device									
Always	3.1852	4.5196	3.4662	4.2983	5.2859	7.0362	13.3828	3.7459	3.7459
Often	3.2827	9.5020	3.4161	4.1801	5.5060	7.3520	12.6366	3.5282	3.5282
Sometimes	2.9820	8.6441	3.2576	4.0227	4.2850	5.4569	7.0077	3.7260	3.7260
Rarely	1.1416	6.8945	1.1660	1.4148	0.9987	0.4393	1.4722	1.2878	1.2878
Never	1.5884	5.6125	1.5861	1.6151	0.9927	0.0000	4.5964	1.6777	1.6777
Don't Know	1.3237	0.0000	1.5437	2.2048	2.3584	3.5261	0.0000	1.8357	1.8357
Ever worn a hearing aid	0.5365	0.5188	0.9110	1.0850	1.4239	2.0762	3.7037	0.9332	2.0737
Frequency of wearing a hearing aid									
Always	1.8557	2.9244	2.1176	3.2754	8.8574	6.7767	6.8686	2.8242	2.8242
Most of the time	1.7048	3.1564	1.9549	2.9479	10.8144	5.6618	5.3041	2.4218	2.4218
Some of the time	1.9398	4.0992	2.1687	3.4733	3.3304	8.0724	12.0662	2.8259	2.8259
None of the time	1.4963	3.5218	1.5269	2.4626	10.2865	5.7424	10.8370	1.9422	1.9422
Don't know	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Appendix D. Sample Sizes of Sub-populations

Table A-17. Sample Size for Questions Asked of Subpopulation

Health Insurance	Adult	Elderly
Amount family spent on health care in past 12 months, single person family	6,726	3,002
Amount family spent on health care in past 12 months, multi-person family	18,458	2,858
No health insurance in past 12 months, if currently insured	20,258	5,781
Number of months without health insurance in past 12 months	1,180	29
Special Equipment		
Have difficulty without this special device	503	264
Frequency of wearing a hearing aid	243	781
Health Care Utilization		
Usual place to go when sick	20,789	5,587
Place to go for routine or preventive care, if different from usual	5,934	481
Seen/talked to OB/GYN in the past 12 months	13,859	3,680
Number of months received at home care	248	403
Total number of home visits in past 12 months	248	403
Number of nights in hospital	2,155	1,173
Health Status		
Percentage having difficulty performing an activity and having a health problem	6,303	3,636



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