Vital and Health Statistics

Health Characteristics of Large Metropolitan Statistical Areas: United States, 1988–89

Series 10: Data From the National Health Survey No. 187

Annual average estimates of rates or percents of limitation of activity, respondent-assessed health status, restricted-activity days, bed-disability days, work-loss days, school-loss days, physician utilization, hospital utilization, incidence of selected acute conditions, and prevalence of selected chronic conditions are shown by geographic region for all large U.S. metropolitan statistical areas combined and for individual metropolitan statistical areas with populations of at least 1.1 million persons.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service Centers for Disease Control and Prevention National Center for Health Statistics

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Under the legislation establishing the National Health Survey, the Public Health Service is authorized to use, insofar as possible, the services or facilities of other Federal, State, or private agencies.

In accordance with specifications established by the National Center for Health Statistics, the U.S. Bureau of the Census, under a contractual arrangement, participated in planning the survey and collecting the data.

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Symbols

- --- Data not available
- . . . Category not applicable
- Quantity zero
- 0.0 Quantity more than zero but less than 0.05
- Z Quantity more than zero but less than 500 where numbers are rounded to thousands
- * Figure does not meet standard of reliability or precision

Health Characteristics of Large Metropolitan Statistical Areas

by John Gary Collins, M.B.A., and Gerry E. Hendershot, Ph.D., Division of Health Interview Statistics

Introduction

Estimates from the National Health Interview Survey (NHIS) are usually provided for the civilian noninstitutionalized population of the United States by demographic characteristics and two geographical distributions geographic region and place of residence. States are grouped into four geographic regions—Northeast Region, Midwest Region, South Region, and West Region—and place of residence is classified as inside or outside a metropolitan statistical area (MSA)—MSA-central city, MSA-not central city, non-MSA-nonfarm, and non-MSA-farm. In recent years, there has been a demand for data on smaller geographic areas, such as States and cities, to provide them with planning data and to establish milestones for reaching the health status objectives of their populations.

This report addresses the demand for data on the health of persons living in metropolitan areas by providing health characteristics of 33 large city areas, 18 of which are consolidated metropolitan statistical areas (CMSA's). Also included are health characteristics data for 23 primary metropolitan statistical areas (PMSA's), which are component areas of the 18 CMSA's included in this report, and data for the large metropolitan areas by geographic region. All areas included in this report have populations exceeding 1.1 million persons.

NHIS data on large MSA's have been presented four times previously for the time periods July 1963–June 1965 (1), 1969–70 (2), 1973–74 (3), and 1980–81 (4). However, only the last report provided data for a substantial number of large MSA's–31. Furthermore, because the NHIS questionnaire was changed in 1982 and the sample frame was changed in 1985, many of the estimates for health characteristics in this report are not directly comparable with those for 1980–81. In addition, this report provides individual health characteristic profiles for each of the areas, as opposed to area comparisons.

This report is based on NHIS survey years 1988 and 1989 and includes data on the age distribution of the populations, restricted activity, bed disability, work loss and school loss, limitation of activity, respondent-assessed health status, physician utilization, hospital utilization, acute conditions, and selected chronic conditions for large CMSA's, PMSA's, and MSA's. Morbidity ratios that reflect indirect age adjustment are shown for variables that have substantially higher rates among older persons.

Sources and limitations of data

The information from the National Health Interview Survey (NHIS) presented in this report is based on data collected in a continuing nationwide survey by household interview. Each week a probability sample of the civilian noninstitutionalized population of the United States is interviewed by personnel of the U.S. Bureau of the Census. Information is obtained about the health and other characteristics of each member of the household.

One of the strengths of the NHIS is the ability to combine data over multiple years. This is possible because of its sampling design of and its use of standard questions over several years. This is particularly desirable when making estimates for variables with relatively small sample sizes. The stability of the estimates is increased because increasing the sample size leads to smaller sampling errors. Therefore, for this report, data are based on information obtained by the National Center for Health Statistics (NCHS) in the 1988 and 1989 NHIS's, and annual averages for these two years are presented.

The NHIS sample for the two years 1988 and 1989 was composed of about 93,196 eligible households, containing approximately 239,239 persons living at the time of interview. The total noninterview rate for the NHIS was about 5.1 percent; 3.0 percent was due to respondent refusal, and the remainder was primarily the result of failure to locate an eligible respondent at home after repeated calls.

In 1985, the NHIS adopted several new sample design features although, conceptually, the sampling plan remained the same as the previous design. The major changes included:

- Reducing the number of primary sampling locations from 376 to 198 for sampling efficiency
- Oversampling the black population to improve the precision of the statistics
- Subdividing the NHIS sample into four separate representative panels to facilitate linkage to other NCHS surveys
- Using an all-area frame not based on the decennial census to facilitate NCHS survey linkage and to conduct NHIS followback surveys

Descriptions of the survey design, the methods used in estimation, and general qualifications of the data obtained from the survey are presented in appendix I. Because the estimates presented in this report are based on a sample of the population, they are subject to sampling errors. Therefore, readers should pay particular attention to the section of appendix I entitled "Reliability of the estimates," which presents formulas for calculating standard errors and instructions for their use. Sampling errors for most of the estimates are relatively low. However, when an estimated number or the numerator or denominator of a rate or percent is small, the sampling error may be large.

All information collected in the survey results from reports by responsible family members residing in the household. When possible, all adult family members participate in the interview. However, proxy responses are accepted for family members who are not at home and are required for all children and for family members who are physically or mentally incapable of responding for themselves. Although a considerable effort is made to ensure accurate reporting, the information from both proxy and self-respondents may be inaccurate because the respondent is unaware of relevant information, has forgotten it, does not wish to reveal it to an interviewer, or does not understand the intended meaning of a question. Errors may also be introduced by interviewers, coders, and others during the processing and analysis of the data.

Certain terms used in this report are defined in appendix II and have specialized meanings for the purpose of the survey. It is suggested that the reader become familiar with these definitions.

Appendix III contains the probe questions and the recording forms used to obtain health characteristic data for large MSA's. The questions for 1988 and 1989 are presented in their entirety in the *Current Estimates* reports for these years (5,6). The portion of the questionnaire shown in appendix III for 1989 is the same as that for 1988.

An asterisk is placed beside certain figures in the tables to indicate a relative standard error of 30 percent or more. Figures marked with an asterisk are given primarily to allow the reader to combine them with related estimates and thereby possibly to produce a more reliable overall estimate for a broader category.

The Division of Health Interview Statistics of NCHS should be contacted for information about coding and editing procedures used to produce the final data file from which the estimates shown in this report are derived.

Metropolitan area concepts and components

Statistics for metropolitan areas, as shown annually in the *Statistical Abstract* (7), are for those areas designated by the U.S. Office of Management and Budget (OMB) as standard metropolitan statistical areas (SMSA's) or metropolitan statistical areas (MSA's). Effective June 30, 1983, OMB changed the basic term from SMSA to MSA and revised the geographic definitions of many individual metropolitan areas; some new areas were defined, and some areas were redesignated as PMSA's or CMSA's.

The general concept of a metropolitan area is one of a large population nucleus together with adjacent communities that have a high degree of economic and social integration with that nucleus. Standard definitions of MSA's were first issued in 1949 by the then U.S. Bureau of the Budget (predecessor of OMB) under the designation "standard metropolitan areas"; the term was changed to SMSA in 1959. From 1977 to 1981, SMSA's were the responsibility of the Office of Federal Statistical Policy and Standards, U.S. Department of Commerce.

The criteria for the establishment and definition of SMSA's were modified in 1958, 1971, and 1975. The current standards were adopted in January 1980; they provide that each MSA must include at least one of the following:

- One city with 50,000 or more inhabitants
- An area (defined by the U.S. Bureau of the Census as urbanized) of at least 50,000 inhabitants and a total MSA population of at least 100,000 (75,000 in New England)

The standards provide that an MSA include as "central county(ies)" the county in which the central city is located and adjacent counties, if any, with at least 50 percent of their population in the urbanized area. Additional "outlying counties" are included if they meet specified requirements of commuting to the central counties and of metropolitan character (such as population density and percent urban). In New England, the MSA's are defined in terms of cities and towns rather than of counties.

The 1980 standards provide that, within metropolitan complexes of 1 million or more population, separate

component areas are defined if specified criteria are met. Such areas are designated primary metropolitan statistical areas (PMSA's), and any area containing PMSA's is designated a consolidated metropolitan statistical area (CMSA).

The standards adopted in 1980 were implemented in two stages. First, they were used to define a group of 36 new areas in June 1981. The 323 SMSA's as of June 30, 1981, were reported in the 1980 census tabulations and publications. Next, the boundaries of all SMSA's were reviewed in 1982-83 under the new standards for determining central cities, and titles were implemented as part of that review. The largest city in each MSA is designated a "central city"; also, there may be additional central cities if specified requirements are met. The title of each MSA consists of the name(s) of up to three of its central cities and the name of each State into which the MSA extends. However, a central city generally is not included in an MSA title unless it has at least one-third the population of the area's largest city (prior to 1983, virtually all central cities appeared in area titles). An MSA may include other cities with populations of 50,000 or more besides its central or title cities. As mentioned earlier, this report includes data on 18 CMSA's, 23 of their component PMSA's, and 15 MSA's within which no component PMSA's are established.

The NHIS population estimates are based on civilian noninstitutionalized persons and hence are not identical within the ones shown in the *Statistical Abstract*. However, the estimates for all areas included in the report, with the exception of those for the Boston–Lawrence–Salem CMSA and the Boston PMSA, are reasonably close. The Boston area populations shown in this publication are inflated by approximately 1 million persons. This occurred because some PMSA's included in the CMSA have overlapping primary sampling units (PSU's), and, consequently, some of the PSU's are counted twice in the tabulation. However, the health characteristics are also counted in this manner; therefore, the rates shown in the tables should not be affected to any great extent.

Age and health characteristics

The age and health characteristics that comprise the profiles of the large MSA's are briefly defined in this section.

Age distribution

The number and percent distribution of populations for the 56 large CMSA's, PMSA's, and MSA's are shown in table 1 by age, according to geographic region. The specific age groups shown are: under 18 years, 18–44 years, 45–64 years, 65–74 years, and 75 years of age and over. Hence, the age distribution of a specific metropolitan area can be compared with the age distribution for all large MSA's or the age distribution for specific regions or other large MSA's shown in this report. The age distributions are also valuable for providing a basis for an indirect age adjustment of health characteristics that have substantially higher rates among older populations.

Limitation of activity due to chronic conditions

The concept of limitation of activity used in this report refers to long-term reduction in activity resulting from chronic disease or impairment. The percent limited in activity as shown in this report includes persons unable to carry on their usual activity, persons limited in the amount and kind of their usual activity, and persons limited but not in their usual activity, which would include such things as civic, church, or recreational activities. Limitation of activity is explained in further detail in appendix II. Because percents of limitation of activity are much higher among older persons, morbidity ratios that allow for age adjustment are provided for each of the areas.

The procedure for calculating morbidity ratios is detailed in this report (see "Morbidity ratios").

Respondent-assessed health status

Data on assessed health status results from simply asking respondents to assess their own health or that of family members living in the same household as "excellent," "very good," "good," "fair," or "poor." This report shows the percents of persons reporting fair or poor health. These percents are higher among older populations; therefore, morbidity ratios that reflect indirect age adjustment are shown.

Disability days

Four types of restricted activity resulting from illness, injury, or impairment are measured in the NHIS: days lost from work for currently employed persons 18 years of age and over, school days missed by youths 5-17 years of age, days spent in bed (which may overlap either of the preceding types), and other days on which a person cut down on the things that he or she usually does. Estimates of "cut-down" days are not presented separately but are included in the generic concept of "restricted-activity days." The other three types of restricted activity also included in the generic concept "restricted activity" are shown separately in this report. The four categories are restricted-activity days, bed-disability days, work-loss days, and school-loss days. Disability days are higher among younger populations for acute conditions and higher among older populations for chronic conditions. Only the category "restricted-activity days," which is primarily made up of cut-down days, has markedly higher rates among older populations. Hence, morbidity ratios are not shown.

Physician contacts

A contact is defined as a consultation with a physician, in person or by telephone, for examination, diagnosis, treatment, or advice. The visit is considered a physician contact if the service is provided by the physician or by another person working under the physician's supervision.

Interval since last contact

The interval since the last physician contact is the length of time prior to the week of interview that a physician was last consulted in person or by telephone for treatment or advice of any type whatever. This variable includes persons who had contacted a doctor in the year prior to the interview week.

Contacts per person

This variable is the number of physician contacts per person per year based on the reported number of doctor visits and the population of a specified area. Physician contacts are high among the youngest population (those under 5 years) and the oldest population (those 65 years of age and over). They are also high among women of childbearing age. Because these data represent a mixed utilization pattern, morbidity ratios are not calculated for these two physician-utilization variables.

Hospitalization

Percent with episode

The percent of persons with a hospital episode in the past year represents those who had had a hospitalization that involved at least a 1-night stay in the year preceding the interview. Because hospitalizations are much more common among older populations, morbidity ratios that reflect indirect age adjustment are shown.

Hospital days per person with an episode

This variable represents the average number of days of hospitalization per person hospitalized in each of the metropolitan areas. The number of days per person with a hospitalization is higher for the younger and older populations; therefore, the value of morbidity ratios is limited for this variable.

Incidence of acute conditions

A condition is considered acute if it was first noticed no more than 3 months before the reference date of the interview and it is not one of the conditions considered chronic, regardless of the time of onset. However, any acute condition not associated with either at least one doctor visit or at least one day of restricted activity during the reference period is considered to be of minor consequence and is excluded from the final data produced by the survey.

The incidence shown in this report includes all acute conditions, that is, infective and parasitic diseases, respiratory conditions, digestive-system conditions, injuries, and other miscellaneous conditions. Acute conditions are lower among older persons who are more prone to developing chronic problems; therefore, morbidity ratios are not calculated for this variable.

Prevalence of selected chronic conditions

A condition is considered chronic if the respondent indicates that it was first noticed more than 3 months before the reference date of the interview or it is a type of condition that ordinarily has a duration of more than 3 months. Examples of conditions that are considered chronic, regardless of their time of onset, are diabetes, heart conditions, emphysema, and arthritis.

An impairment is a chronic or permanent defect, usually static in nature, that results from disease, injury, or congenital malformation. It represents a decrease in or loss of ability to perform various functions, particularly those of the musculoskeletal system and the sense organs. Impairments are grouped according to type of functional impairment and etiology in the special NHIS impairment codes.

In the NHIS, impairments are included as part of selected chronic conditions.

Rates by area are given for 10 high-prevalence selected chronic conditions in this report. They are arthritis, deafness and other hearing impairments, deformities or orthopedic impairments, heart disease, high blood pressure, hemorrhoids, chronic bronchitis, asthma, hay fever, and chronic sinusitis. It should be noted that the rates shown are based on condition prevalence and not on person prevalence, because, for some of the categories, an individual can have more than one condition. However, of the above conditions, only deformities or orthopedic impairments and heart disease vary to any degree in person prevalence and condition prevalence.

Five of the above conditions—arthritis, deafness and other hearing impairments, deformities or orthopedic impairments, heart disease, and high blood pressure—have higher prevalence rates among older populations, and morbidity ratios that reflect indirect age adjustment are computed for them for each of the areas.

All of the above health characteristics are described in more detail in appendix II of this report.

Morbidity ratios

Indirect age adjustments for morbidity ratios were calculated using the age-specific rates of the total civilian noninstitutionalized population of the United States. The percent of the population in the five age groups shown for each area was multiplied by the age-specific rates of the total population and summed to provide expected rates or percents. The observed rates or percents shown were then divided by the expected rates or percents to provide the morbidity ratios. The ratio of the individual area can then be compared with that for all large metropolitan areas, which is shown in each table, or compared with the total civilian noninstitutionalized population, which would be 1.00. A ratio greater than that for all large areas or for the total population would indicate an age-adjusted rate for the specific area that is higher than that of the population with which it is being compared, and a lower ratio would correspondingly indicate an age-adjusted rate for the specific area that is lower than that of the population being compared.

The age-specific rates for the civilian noninstitutionalized population that were used to calculate the morbidity ratios are shown in table A. Some of the rates can be obtained from the *Current Estimates* report for 1988 (5); others are based on NHIS unpublished data. Tables 2–13 provide data for the Northeast Region and the large CMSA's, PMSA's, and MSA's within that region. Tables 14–29 provide data for the Midwest Region and the large CMSA's, PMSA's, and MSA's included in it. Tables 30–45 show data for the South Region and the large CMSA's, PMSA's, and MSA's in it; and tables 46–61 provide data for the West Region and its large CMSA's, PMSA's, and MSA's.

Selected health characteristic or chronic condition	Under 18 years	18–44 years	45–64 years	65–74 years	75 years and over			
Health characteristics			Percent					
Limitation of activity	5.3	8.6	22.4	33.9	41.8			
Respondent-assessed health status of fair or poor	2.9	5.8	17.0	26.5	33.6			
Hospital episode in past year	3.5	8.2	8.9	15.3	19.7			
Chronic conditions		Prevalence rate per 1,000 population						
Arthritis	2.4	51.4	271.7	450.8	534.6			
Deafness and other hearing impairments	17.7	51.6	139.9	261.2	369.2			
Deformities or orthopedic impairments	35.3	153.5	183.2	184.5	223.9			
Heart disease	22.4	39.9	128.5	269.1	325.4			
High blood pressure	2.5	64.6	253.6	383.6	373.2			

NOTE: Data based on Current Estimates from the National Health Interview Survey, 1989 (5), and unpublished National Health Interview Survey data.

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	selected health characteristics, according to all large metropolitan statistical areas and Minneapolis–St. Paul metropolitan statistical area: United States, 1988–89	39	41.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and New Orleans metro-
29.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and St. Louis metropoli- tan statistical area: United States, 1988–89	40	42.	politan statistical area: United States, 1988–89 Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Norfolk–Virginia
30.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and South Region large		43.	Beach-Newport News metropolitan statistical area: United States, 1988-89 Percent distribution of population by age and rate of
31.	consolidated metropolitan statistical areas and metro- politan statistical areas: United States, 1988–89 Percent distribution of population by age and rate of	41	4.4	selected health characteristics, according to all large metropolitan statistical areas and San Antonio metro- politan statistical area: United States, 1988–89
32.	metropolitan statistical areas and Atlanta metropoli- tan statistical area: United States, 1988–89 Percent distribution of population by age and rate of selected health characteristics, according to all large	42	44.	selected health characteristics, according to all large metropolitan statistical areas and Tampa–St. Peters- burg–Clearwater metropolitan statistical area: United States, 1988–89
	metropolitan statistical areas and Baltimore metropol- itan statistical area: United States, 1988–89	43	45.	Percent distribution of population by age and rate of selected health characteristics, according to all large

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46.	metropolitan statistical areas and Washington, D.C., metropolitan statistical area: United States, 1988–89 Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and West Region large consolidated metropolitan statistical areas and large	56	54.	metropolitan statistical areas and Portland–Vancouver consolidated metropolitan statistical area: United States, 1988–89 Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Portland primary metropolitan statistical area: United States, 1988–89.	64 65
47.	metropolitan statistical areas: United States, 1988–89 Percent distribution of population by age and rate of selected health characteristics, according to all large	57	55.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Sacramento metro- politan statistical area: United States, 1988–89	66
48.	metropolitan statistical areas and Denver-Boulder consolidated metropolitan statistical area: United States, 1988–89 Percent distribution of population by age and rate of	58	56.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and San Diego metropolitan statistical area; United States, 1988–89	67
	selected health characteristics, according to all large metropolitan statistical areas and Los Angeles-Ana- heim-Riverside consolidated metropolitan statistical area: United States, 1988-89	59	57.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and San Francisco-Oak- land-San Jose consolidated metropolitan statistical	
49.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Anaheim–Santa Ana primary metropolitan statistical area: United States, 1988–89	60	58.	area: United States, 1988–89 Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and San Francisco–Oak- land primary metropolitan statistical area: United	68
50.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Los Angeles-Long Beach primary metropolitan statistical area: United States, 1988-89	61	59.	States, 1988–89 Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and San Jose primary metropolitan statistical area; United States,	69
51.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Riverdale–San Ber- nardino primary metropolitan statistical area: United States, 1988–89	62	60.	1988–89 Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Seattle-Tacoma consolidated metropolitan statistical area: United	70
52.	Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Phoenix metropoli- tan statistical area: United States, 1988–89	63	61.	States, 1988–89 Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Seattle primary met-	71.
53.	Percent distribution of population by age and rate of selected health characteristics, according to all large			ropolitan statistical area: United States, 1988-89	72

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Table 1. Number and percent distribution of population of large metropolitan statistical areas by age, according to region: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

		Age						
Region	Population	All ages	Under 18 years	18–44 years	45–64 years	65–74 years	75 years and over	
	Number in thousands			Percent d	istribution			
Total	117,211	100.0	25.6	44.4	18.9	6.9	4.2	
Northeast	32,593	100.0	23.3	43 4	20.0	8.0	E 1	
Boston-I awrence-Salem CMSA	5 187	100.0	20.0	40.4	10.0	0.2	5.1	
Boston PMSA	4 105	100.0	22.7	40.1	10.0	7.0	5.0	
Buffalo-Niagara Falls CMSA	4,100	100.0	21.2	44.0	19.2	8.5	6.4	
New York-Northern New Jersev-	1,207	100.0	24.3	41.7	21.9	6.9	5.2	
Long Island CMSA	18.207	100.0	24.1	44.0	19.8	76	4.6	
Bergen-Passaic PMSA	1,356	100.0	25.0	44.3	10.0	6.0	4.0	
Nassau-Suffolk PMSA	2 572	100.0	22.0	44.0	21.2	7.9	4.0	
New York PMSA	8 348	100.0	24.6	44.0	21.2	7.0	4.2	
Newark PMSA	1 091	100.0	24.0	43.1	20.2	7.5	4.6	
Philadelphia-Wilmington-	1,501	100.0	22.4	44.5	20.6	7.6	4.8	
Trenton CMSA	5 756	100.0	22.4	10 1	20.1	07	= 4	
Philadelphia PMSA	4 790	100.0	22.4	42.4	20.1	9.7	5.4	
Pittsburgh_Beaver Valley CMSA	4,705	100.0	23.2	42.4	19.5	9.3	5.5	
Midwast	2,200	100.0	20.5	37.6	23.4	11.2	7.3	
Chicago Carry Lake County OMOA	27,745	100.0	27.0	44.0	18.8	6.3	3.9	
Chicago-Gary-Lake County CMSA	7,849	100.0	27.2	44.0	18.6	6.4	3.8	
	7,114	100.0	27.1	44.3	18.5	6.4	3.8	
Cincinnati-Hamilton CMSA	1,665	100.0	28.9	43.8	16.6	6.5	4.1	
Cincinnati PMSA	1,377	100.0	28.0	44.1	16.1	6.9	4.8	
Cleveland–Akron–Lorain CMSA	2,999	100.0	24.2	42.0	21.9	7.4	4.5	
Cleveland PMSA	2,003	100.0	24.4	41.6	20.9	8.1	5.1	
Columbus MSA	1,270	100.0	24.0	46.1	19.1	6.5	4.3	
Detroit-Ann Arbor CMSA	4,372	100.0	26.9	43.7	19.5	5.8	4.0	
Detroit PMSA	4,052	100.0	26.6	43.6	19.5	6.1	4.2	
Indianapolis MSA	1,222	100.0	28.9	42.1	18.2	6.4	4.4	
Kansas City MSA	1.562	100.0	28.9	42.2	17 7	69	42	
Milwaukee-Racine CMSA	1.715	100.0	27.9	43.9	19.1	5.5	3.6	
Milwaukee PMSA	1.560	100.0	28.1	44.3	18.8	5.0	3.0	
Minneapolis-St. Paul MSA	2 475	100.0	28.6	46.0	17.0	J.4 4 4	3.4	
St. Louis MSA	2617	100.0	25.8	45.5	19.7	4.4	3.1	
South	26 320	100.0	20.0	45.5	10.7	0.0	3.2	
Atlanta MSA	20,029	100.0	20.0	43.4	16.1	6.4	3.7	
Baltimore MSA	2,000	100.0	25.6	49.3	15.3	6.9	2.7	
Dallas Fort Worth CMSA	2,177	100.0	22.1	44.1	20.1	8.8	4.9	
	4,004	100.0	29.5	46.6	17.5	4.2	2.2	
East Morth Adjuster DMCA	2,742	100.0	30.7	49.1	15.0	3.2	2.0	
Fort Worth-Anington PMSA	1,792	100.0	27.5	42.8	21.3	5.6	2.7	
Rousion-Galveston-								
	3,696	100.0	31.5	47.9	15.7	3.1	1.7	
Houston PMSA.	3,525	100.0	32.1	48.1	15.3	2.9	1.6	
Miami-Fort Lauderdale CMSA	3,079	100.0	23.3	41.3	19.2	8.4	7.8	
Fort Lauderdale-Hollywood-								
Pompano Beach PMSA	1,310	100.0	22.9	42.4	16.8	9.3	8.6	
Miami-Hialeah PMSA	1,769	100.0	23.5	40.5	21.0	7.7	7.3	
New Orleans MSA	1,282	100.0	26.4	41.3	18.7	9.7	3.8	
Norfolk-Virginia Beach-								
Newport News MSA	1,474	100.0	31.8	46.0	15.3	4.2	2.7	
San Antonio MSA	1,142	100.0	27.0	39.9	19.6	9.1	4.5	
Tampa-St. Petersburg-								
Clearwater MSA	2,150	100.0	22.2	43.2	17.6	11.1	5.9	
Washington, D.C., MSA	3,960	100.0	24.3	46.6	21.5	4.9	2.8	

Table 1. Number and percent distribution of population of large metropolitan statistical areas by age, according to region: United States, 1988–89 – Con.

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Region		Age						
	Population	All ages	Under 18 years	1844 years	45–64 years	65–74 years	75 years and over	
	Number in thousands			Percent d	istribution			
West	30,544	100.0	26.0	45.0	18.5	6.6	4.0	
Denver–Boulder CMSA	1,884	100.0	25.6	47.3	17.4	6.3	3.5	
CMSA	13,296	100.0	27.7	44.8	17.9	6.0	3.7	
Anaheim-Santa Ana PMSA	2,279	100.0	26.8	43.9	20.8	5.5	2.9	
Los Angeles-Long Beach PMSA	8,147	100.0	27.2	45.9	17.5	5.8	3.6	
Riverside-San Bernardino PMSA.	2,203	100.0	29.4	43.3	15.4	7.1	4.7	
Phoenix MSA	1,985	100.0	25.8	42.8	19.7	7.7	4.0	
Portland–Vancouver CMSA	1,380	100.0	23.3	47.0	18.0	6.7	4.9	
Portland PMSA	1,149	100.0	21.8	47.2	18.3	7.0	5.7	
Sacramento MSA	1,505	100.0	26.5	46.9	19.0	4.4	3.3	
San Diego MSA	2,157	100.0	26.4	41.3	18.3	8.9	5.1	
San Francisco-Oakland-San Jose								
CMSA	5,848	100.0	22.8	45.8	19.9	7.2	4.3	
San Francisco-Oakland PMSA	3,398	100.0	21.5	46.9	19.0	7.7	4.9	
San Jose PMSA	1,342	100.0	23.7	48.0	20.9	5.5	2.0	
Seattle-Tacoma CMSA	2,489	100.0	25.5	45.0	18.7	6.8	4.0	
Seattle PMSA	1,865	100.0	24.2	46.0	19.5	6.9	3.4	

Table 2. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Northeast Region consolidated metropolitan statistical areas and metropolitan statistical areas: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All I	arge CMSA's and N	Northeast Region			
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Linder 18 years	25.6			23.3		
18 44 voore	23.0			13.0		
45 64 years	19.0			20.0		
45-04 years	10.9			20.0		
25-74 years and over	0.9			0.2		
	4.2			5.1		
Health characteristics			Ra	te		
Percent limited In activity	12.4	13.5	0.92	12.2	14.4	0.85
bealth	8.7	9.8	0.89	8.8	10.5	0.84
Restricted-activity days per 100 persons	1.389.8			1.238.4		
Bed-disability days per 100 persons	603.3			575.6		
persons 18–64 years of age.	537.1			502.1		
of age	530.2			407.2		
Physician contacts:						
Percent with a physician contact in the past						
year	76.7			77.4		
Physician contacts per person	5.5			5.1		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.4	8.4	0.88
Hospital days per person with a hospital						
episode	8.0			9.0		
Conditions:						
Incidence of acute conditions per 100 persons						
per year	171.7			131.7		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	113.2	141.4	0.80
Deafness and other hearing impairments	71.0	87.4	0.81	61.4	94.7	0.65
Deformities or orthopedic impairments	121.6	133.9	0.91	105.3	138.0	0.76
Heart disease	71.6	80.0	0.90	69.4	86.9	0.80
High blood pressure	108.2	119.4	0.91	99.2	129.8	0.76
Hemorrholds	43.6			37.0		
Chronic bronchitis	46.2			43.2		
Asthma	44.0			38.3		
Hay fever	88.6			73.0		
Chronic sinusitis	114.2			79.7		

Table 3. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Boston-Lawrence-Salem consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	A!!	arge CMSA's and N	ISA's	Boston-Lawrence-Salem CMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent d	istribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			22.7		
18-44 years	44.4			45.1		
45-64 years	18.9			18.8		
65–74 years	6.9			7.8		
75 years and over	4.2			5.6		
Health characteristics			Ba	to		
			110			
Percent limited in activity Percent with fair or poor respondent-assessed	12.4	13.5	0.92	14.5	14.3	1.01
health	8.7	9.8	0.89	7.7	10.4	0.74
Restricted-activity days per 100 persons	1,389.8			1,329.2		
Bed-disability days per 100 persons Work-loss days per 100 currently employed	603.3			541.2		
persons 18–64 years of age	537.1			537.5		
of age	530.2			584.0		
Physician contacts:						
Percent with a physician contact in the past						
year	76.7			80.0		
Physician contacts per person	5.5			5.2		
Percent with hospital episode in the past year Hospital days per person with a hospital	7.5	8.1	0.93	7.5	8.5	0.88
episode	8.0			8.5		
Conditions:						
Incidence of acute conditions per 100 persons						
per year	171.7			143.3		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	118.2	139.9	0.84
Deafness and other hearing impairments	71.0	87.4	0.81	71.9	94.6	0.76
Deformities or orthopedic impairments	121.6	133.9	0.91	106.0	138.6	0.76
Heart disease	71.6	80.0	0.90	80.6	86.4	0.93
High blood pressure	108.2	119.4	0.91	94.3	128.2	0.74
Hemorrhoids.	43.6			27.6		
Chronic bronchitis	46.2			59.4		
Asthma	44.0			53.0		
Hay fever	88.6			82.1		
Chronic sinusitis	114.2			58.4		

Table 4. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Boston primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All I	arge CMSA's and N	ASA's	Boston PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
		······································	Percent di	stribution	,,	
Total	100.0			100.0		
Age						
Under 18 years	25.6			21.2		
18-44 years.	44.4			44.6		
45-64 years.	18.9			19.2		
65-74 years	6.9			8.5		
75 years and over	4.2			64		
	-1.6		_			
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	15.2	14.8	1.03
health	8.7	9.8	0.89	7.8	10.9	0.72
Restricted-activity days per 100 persons	1,389.8			1,392.4		
Bed-disability days per 100 persons Work-loss days per 100 currentiv employed	603.3			547.6		
persons 18–64 years of ageSchool-loss days per 100 children 5–17 years	537.1			564.8		
of age	530.2			573.0		
Percent with a physician contact in the past						
vear.	76.7			80.8		
Physician contacts per person	5.5			5.6		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.5	8.7	0.86
Hospital days per person with a hospital						
episode	8.0			8.7		
Incidence of acute conditions per 100 persons						
per year	171.7			135.5		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	121.3	148.1	0.82
Deafness and other hearing impairments	71.0	87.4	0.81	66.5	99.5	0.67
Deformities or orthopedic impairments	121.6	133.9	0.91	103.0	141.1	0.73
Heart disease	71.6	80.0	0.90	90.1	90.9	0.99
High blood pressure	108.2	119.4	0.91	106.9	134.5	0.79
Hemorrhoids.	43.6			25.1		
Chronic bronchitis	46.2			65.5		
Asthma	44.0			47.0		
Hay fever	88.6			81.1		
Chronic sinusitis	114.2			56.3		

Table 5. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Buffalo-Niagara Falls consolidated metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All I	arge CMSA's and N	ISA's	Buffalo–Niagara Falls CMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 vears	25.6			24.3		
18–44 vears	44.4			41.7		
45–64 years	18.9			21.9		
65–74 years	6.9			6.9		
75 years and over	4.2			5.2		
			De	to		
Health characteristics			Ha	le		
Percent limited in activity	12.4	13.5	0.92	13.0	14.3	0.91
Percent with fair or poor respondent-assessed						
health	8.7	9.8	0.89	7.6	10.4	0.73
Disability days:						
Restricted-activity days per 100 persons	1,389.8			1,520.7		
Bed-disability days per 100 persons	603.3			540.7		
Work-loss days per 100 currently employed						
persons 18–64 years of age.	537.1			893.3		
School-loss days per 100 children 5-17 years	590.0			*154 4		
Physiciane contacte:	530.2			154.4		
Percent with a physician contact in the past						
Vear.	76 7			77 4		
Physician contacts per person	55			45		
Hospitalization	0.0			4.0		
Percent with hospital episode in the past year	75	81	0.93	9.0	83	1.08
Hospital days per person with a hospital	1.0	0.1	0.00	0.0	0.0	
episode	8.0			8.6		
Conditions:						
Incidence of acute conditions per 100 persons						
per year	171.7			106.5		
Prevalence of selected chronic conditions per						
1,000 persons per year:						
Arthritis	113.1	128.3	0.88	128.5	140.4	0.92
Deafness and other hearing impairments	71.0	87.4	0.81	79.2	93.7	0.85
Deformities or orthopedic impairments	121.6	133.9	0.91	194.0	137.1	1.42
Heart disease	71.6	80.0	0.90	59.8	85.7	0.70
High blood pressure	108.2	119.4	0.91	113.2	129.0	0.88
Hemorrhoids.	43.6			*36.4		
Chronic bronchitis	46.2			61.4		
Asthma	44.0			*29.9		
Hay fever	88.6			115.6		
Chronic sinusitis	114.2			164.1		

Table 6. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and New York-Northern New Jersey-Long Island consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All I	arge CMSA's and N	ISA's	New York–Northern New Jersey–Long Island CMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			24.1		
18-44 years	44.4			44.0		
4564 years	18.9			19.8		
65-74 years	6.9			7.6		
75 years and over	4.2			4.6		
Health characteristics			Bat	P		
			1101	•		
Percent limited in activity Percent with fair or poor respondent-assessed	12.4	13.5	0.92	10.9	14.0	0.78
health	8.7	9.8	0.89	9.4	10.2	0.92
Restricted-activity days per 100 persons	1,389.8			1,183.1		
Bed-disability days per 100 persons	603.3			603.5		
persons 18-64 years of age School-loss days per 100 children 5-17 years	537.1			476.9		
of age	530.2			370.7		
Physician contacts:						
Percent with a physician contact in the past						
year	76.7			75.4		
Physician contacts per person	5.5			4.9		
Percent with hospital episode in the past year	7.5	8.1	0.93	7.1	8.3	0.86
Hospital days per person with a hospital						
episode	8.0			9.3		
incidence of acute conditions per 100 persons						
per year	171.7			131.6	~~-	
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	103.3	135.8	0.76
Deafness and other hearing impairments	71.0	87.4	0.81	48.1	91.5	0.53
Deformities of orthopedic impairments	121.6	133.9	0.91	108.9	136.6	0.80
Heart disease	71.6	80.0	0.90	59.4	83.8	0.71
High blood pressure	108.2	119.4	0.91	96.5	125.6	0.77
Hemorrholds	43.6			41.5		
Chronic bronchitis	46.2			36.5		
Asthma	44.0			38.3		
Hay fever	88.6			71.9		
Chronic sinusitis	114.2			75.7		

Table 7. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Bergen-Passaic primary metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All I	large CMSA's and N	ISA's	Bergen–Passaic PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbldity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			25.0		
18-44 years	44.4			44.3		
4564 years	18.9			19.2		
65–74 years	6.9			6.9		
75 years and over	4.2			4.6		
Health characteristics			Ra	te		
Percent limited in activity	19.4	13.5	0 92	10.6	13.7	0 77
Percent with fair or poor respondent-assessed	12.7	10.0	0.52	10.0	10.7	0.77
health	8.7	9.8	0.89	6.8	9.9	0.69
Disability days:						
Restricted-activity days per 100 persons	1.389.8			1,148.2		
Bed-disability days per 100 persons	603.3			808.6	~~~~~	
Work-loss days per 100 currently employed						
persons 18-64 years of age.	537.1			395.4		
School-loss days per 100 children 5-17 years						
of age	530.2			*323.9		
Physician contacts:						
Percent with a physician contact in the past						
year	76.7			78.2		
Physician contacts per person	5.5			4.8		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.1	8.2	0.87
Hospital days per person with a hospital						
	8.0			9.0		
Conditions:						
Incidence of acute conditions per 100 persons	171 7			152.7		
Providence of selected obtanic conditions per	171.7			152.7		
1.000 persons per vear:						
Arthritis	113 1	128.3	0.88	85.5	131.2	0.65
Deafness and other bearing impairments	71.0	87.4	0.81	76.0	89.2	0.85
Deformities of orthonedic impairments	121.6	133.9	0.91	158.6	135.0	1.17
Heart disease	71.6	80.0	0.90	*38.3	81.5	*0.47
High blood pressure.	108.2	119.4	0.91	85.5	121.6	0.70
Hemorrhoids	43.6			*43.5		
Chronic bronchitis	46.2			42.0		
Asthma	44.0			*18.4		
Hav fever	88.6			101.0		
Chronic sinusitis	114.2			75.2		

Table 8. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Nassau–Suffolk primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Nassau–Suffolk PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			22.8		
18–44 years	44.4			44.0		
45–64 years	18.9			21.2		
65–74 years	6.9			7.8		
75 years and over	4.2			4.2		
Health characteristics			Ra	te		
Descent limited in activity	10.4	10.5	0.00	7.0		0.50
Percent with fair or peer respondent encoded health	12.4	13.5	0.92	7.3	14.1	0.52
Disability days:	6.7	9.6	0.69	7.0	10.3	0.68
Restricted-activity days per 100 persons	1,389.8			964.0		
Bed-disability days per 100 persons	603.3			329.5		
persons 18–64 years of age.	537.1			495.0		
age	530.2			*319.4		
Physician contacts:						
Percent with a physician contact in the past year	76.7			73.0		
Physician contacts per person	5.5			4.5		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	6.4	8.3	0.77
Hospital days per person with a hospital episode	8.0			9.5		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			127.4		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	95.6	138.4	0.69
Deafness and other hearing impairments	71.0	87.4	0.81	54.8	92.3	0.59
Deformities of orthopedic impairments	121.6	133.9	0.91	103.8	138.2	0.75
Heart disease	71.6	80.0	0.90	47.8	84.6	0.57
High blood pressure	108.2	119.4	0.91	86.7	128.4	0.68
Hemorrholds	43.6			47.8		
Chronic bronchitis	46.2			39.3		
Asthma	44.0			33.0		
Hay fever	88.6			100.3		
Chronic sinusitis	114.2			69.2		

Table 9. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and New York primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			New York PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			24.5		
18-44 years	44.4		·	43.1		
4564 years	18.9			20.2		
65–74 years	6.9			7.5		
75 years and over	4.2			4.6		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	12.1	14.0	0.86
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	12.1	10.2	1.19
Restricted-activity days per 100 persons	1,389.8			1,285.1		
Bed-disability days per 100 persons Work-loss days per 100 currently employed persons	603.3			738.1		
18-64 years of age	537.1			502.5		
School-loss days per 100 children 5–17 years of age Physician contacts:	530.2			373.7		
Percent with a physician contact in the past year	76.7			75.4	- -	
Physician contacts per person	5.5			4.8		
Percent with hospital episode in the past year	7.5	8.1	0.93	7.1	8.2	0.87
Hospital days per person with a hospital episode Conditions:	8.0			9.9		
Incidence of acute conditions per 100 persons per year Prevalence of selected chronic conditions per 1.000 persons per year:	171.7			112.3		
Arthritis	113.1	128.3	0.88	119.4	136.0	0.88
Deafness and other hearing impairments	71.0	87.4	0.81	38.6	91.4	0.42
Deformities of orthonedic impairments	121.6	133.9	0.91	96.0	136.0	0.71
Heart disease	71.6	80.0	0.90	57.9	83.8	0.69
High blood pressure.	108.2	119.4	0.91	98.8	125.6	0.79
Hemorrhoids	43.6			32.0		
Chronic bronchitis	46.2			24.1		
Asthma	44.0			43.2		
Hav fever	88.6			50.6		
Chronic sinusitis	114.2			60.5		

Table 10. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Newark primary metropolitan statistical area: United States, 1988–89

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[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic Observed Expected Morbidity ratio Observed Expected Morbidity ratio Percent distribution Total 100.0 100.0 Age 22.4 Under 18 years 18.9 20.6 45-64 years 6.9 7.6 75 years and over 4.2 7.6 Percent limited in activity 12.4 13.5 0.92 11.4 14.2 0.80 Percent limited in activity 7.8 8.4 0.4 0.85 Percent limited in activity days per 100 persons 13.98.8 494.8 Bed (dashift) days per 100 persons 537.1 533.7 533.7 <		All large CMSA's and MSA's			Newark PMSA		
Percent distribution Total 100.0 100.0 Age 22.4 4.5 10-44 years 25.6 22.4 45-44 years 18.9 26.6 45-44 years 18.9 26.6 45-74 years 42 4.8 65-74 years 4.2 4.8 75 years and over 12.4 13.5 0.92 11.4 14.2 0.80 Percent limited in activity 1.5 1.5 Bed-fideability days percont with a physiolan contas 603.3 1.151.6 Bed-fideability days per 100 currenty employed persons 537.1	Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				Percent di	stribution		
Age Under 18 years 25.6 22.4 18-44 years 44.4 44.5 45-64 years 6.9 20.6 65-74 years 6.9 7.6 65-74 years 6.9 7.6 65-74 years 6.9 7.6 75 years and over 4.2 13.5 0.92 11.4 14.2 0.80 Percent limited in activity 12.4 13.5 0.92 11.4 14.2 0.80 Disability days per 100 persons 1.309.8 1.151.6 Back-disability days per 100 persons 630.3 494.8 Work-loss days per 100 currently employed persons 537.1 533.7 Physiclan contacts Percent With a physician co	Total	100.0			100.0		
Under 18 years 25.6 22.4 18-44 years 44.4 44.5 65-74 years 6.9 7.6 65-74 years 6.9 7.6 65-74 years 6.9 7.6 75 years and over 4.2 4.8 Retire characteristics Percent limited in activity, 12.4 13.5 0.92 11.4 14.2 0.80 Parcent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.8 10.4 0.85 Disability days per 100 persons 603.3 494.8 Bod-disability days per 100 persons 630.2 533.7 Bread-disability days per 100 children 5-17 years of age. 55.5 -5.3 Physician contacts per person 5.5	Age						
18-44 years. 44.4 44.5 44.5 45-64 years. 18.9 20.6 75 years and over 4.2 7.6 75 years and over 4.2 4.8 Fate Percent With fair or poor respondent-assessed health. 8.7 9.8 0.92 11.4 14.2 0.80 Percent With fair or poor respondent-assessed health. 8.7 9.8 0.89 8.8 10.4 0.85 Descriptibility days per 100 persons 1389.8 1,151.6 Bed-disability days per 100 persons 603.3 494.8 Bed-disability days per 100 children 6-17 years of age. 537.1 533.7 Physician contacts per person 5.5 53.3 Physician contacts per person 5.5 8.4 0.93	Under 18 years.	25.6			22.4		
45-64 years 18.9 20.6 65-74 years 6.9 7.6 75 years and over 4.2 4.8 Health characteristics Fate Percent limited in activity 12.4 13.5 0.92 11.4 14.2 0.80 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.8 10.4 0.85 Disability days per 100 persons 1389.8 494.8 Bed-fieldsability days per 100 persons 603.3 494.8 Bed-disability days per 100 children 5-17 years of age 530.2 530.6 Physician contacts Percent with a physician contact in the past year 7.5 8.1 0.93 7.8 8.4 0.93 Percent with hospital episode in the past year 7.5 8.1 0.93 7.8 8.4 0.93	18–44 vears	44.4			44.5		
65-74 years 6.9 7.6 7.7.6 75 years and over 4.2 4.8 Health characteristics Rate 4.8 Percent limited in activity 12.4 13.5 0.92 11.4 14.2 0.80 Percent limited in activity days per 100 persons 16.3 1151.6 Bestrited-activity days per 100 persons 603.3 494.8 Be-64 years of age 537.1 533.7 Procent with a physician contacts in the past year 537.1 533.7 Percent with a physician contacts in the past year 76.7 73.4 Prosolation: 5.5 5.3 Pospitalization: 7.5 8.1 0.93 7.8 8.4 0.93 <td< td=""><td>45–64 vears.</td><td>18.9</td><td></td><td></td><td>20.6</td><td></td><td></td></td<>	45–64 vears.	18.9			20.6		
75 years and over 4.2 4.8 Health characteristics Rate Percent limited in activity. 12.4 13.5 0.92 11.4 14.2 0.80 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.8 10.4 0.85 Bad-disability days per 100 persons 1.389.8 494.8 Bad-disability days per 100 persons 603.3 494.8 School-loss days per 100 currently employed persons 537.1 533.7 Percent With a physician contact in the past year 76.7 73.4 Percent With a physician contact in the past year 75.5 8.1 0.93 7.8 8.4 0.93 Hospital days per person with a hospital episode 8.0 8.7 Percent with nospital episode in the past year 7.5 8.1 0.93 7.8 8.4 0.93 Hospital days per person wi	65-74 years	6.9			7.6	~	
Health characteristics Fate Percent limited in activity. 12.4 13.5 0.92 11.4 14.2 0.80 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.8 10.4 0.85 Disability days Restricted-activity days per 100 persons 1.389.8 1.151.6 Bed-disability days per 100 currently employed persons 603.3 494.8 Bed-disability days per 100 currently employed persons 537.1 533.7 School-loss days per 100 children 5-17 years of age. 530.2 533.7 Physician contacts: Percent with a physician contacts in the past year 76.7 5.3 Hospital days per person with a hospital episode 8.0 5.3 Conditions: Restricteristican data person with a hospital episode 8.0	75 years and over	4.2			4.8		
Percent limited in activity. 12.4 13.5 0.92 11.4 14.2 0.80 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.8 10.4 0.85 Disability days Restricted-activity days per 100 persons 1.389.8 1.151.6 Bed-disability days per 100 currently employed persons 603.3 494.8 Bed-disability days per 100 currently employed persons 537.1 533.7 School-loss days per 100 currently employed persons 530.2 508.6 Physician contacts: Percent with a physician contacts in the past year 76.7 5.3 Physician contacts per person with a bospital episode 8.0 5.3 Provent with hospital episode in the past year 7.5 8.1 0.93 7.8 8.4 0.93 Hospital days per person with a hospital episode 8.0 8.7 -	Health characteristics			Ra	te		
Percent with Gain activity	Devenue limite of in antibity	10.4	40 F	0.00		110	0.00
Percent with fail of poor respondencesses of reach 8.7 9.8 0.89 8.8 10.4 0.85 Disability days: Restricted-activity days per 100 persons	Percent limited in activity,	12.4	13.5	0.92	11.4	14.2	0.80
Restricted-activity days per 100 persons 1,389.8 1,151.6 Bed-disability days per 100 persons 603.3 494.8 Work-loss days per 100 currently employed persons 537.1 533.7 School-loss days per 100 children 5-17 years of age. 530.2 533.7 Physician contacts: Percent with a physician contact in the past year 76.7 73.4 Physician contacts per person	Disability days:	8.7	9.8	0.89	8.8	10.4	0.85
Bed-disability days per 100 persons 603.3 494.8 Work-loss days per 100 currently employed persons 537.1 533.7 School-loss days per 100 children 5–17 years of age. 530.2 *508.6 Physician contacts: 73.4 Percent with a physician contact in the past year 76.7 5.3 Hospitalization: 5.5 8.7 Conditions: Incidence of acute conditions per 100 persons per year. 7.5 8.1 0.93 7.8 8.4 0.93 Incidence of selected chronic conditions per 100 persons per year. 171.7 161.7 Percentwite of selected chronic conditions per 100 persons per year: 113.1 128.3 0.88 78.2 139.3 0.56 Deafness and other hearing impairments 71.0 87.4 0.81 58.6 93.3 0.63 Deformities of orthopedic impairme	Restricted-activity days per 100 persons	1,389.8			1,151.6		
Work-loss days per 100 currently employed persons 537.1 533.7 School-loss days per 100 children 5-17 years of age. 530.2 *508.6 Physician contacts: 73.4 *508.6 Physician contacts in the past year 5.5 5.3 Physician contacts per person 5.5 5.3 Physician contacts per person 5.5 5.3 Percent with hospital episode in the past year 7.5 8.1 0.93 7.8 8.4 0.93 Hospital days per person with a hospital episode 8.0 8.7 Conditions: 8.7 161.7 Provalence of selected chronic conditions per year: 171.7 161.7 Provalence of selected chronic conditions per 1,000 persons per year:	Bed-disability days per 100 persons	603.3			494.8		
18-64 years of age 537.1 533.7 533.7 533.7 <td< td=""><td>Work-loss days per 100 currently employed persons</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Work-loss days per 100 currently employed persons						
School-loss days per 100 children 5–17 years of age. 530.2 *508.6 Physician contacts: Percent with a physician contact in the past year	18-64 years of age	537.1			533.7		
Prysician contacts: 76.7 73.4 Prysician contacts per person 5.5 5.3 Hospitalization: 5.5 5.3 Hospital episode in the past year 7.5 8.1 0.93 7.8 8.4 0.93 Hospital days per person with a hospital episode 8.0 8.7 Conditions: 171.7 161.7 Prevalence of selected chronic conditions per year: 171.7 161.7 Arthritis 113.1 128.3 0.88 78.2 139.3 0.56 Deafness and other hearing impairments 71.0 87.4 0.81 58.6 93.3 0.63 Deformities of orthopedic impairments 121.6 133.9 0.91 107.5 138.7 0.78 Heart disease 71.6 80.0 0.90 68.1 85.3 0.80 High blood pressure 108.2	School-loss days per 100 children 5-17 years of age	530.2			*508.6		
Percent with a physicial contact in the past year	Physician contacts:						
Physician contacts per person	Percent with a physician contact in the past year	76.7			73.4		
Percent with hospital episode in the past year	Physician contacts per person	5.5			5.3		~
Hospital days per person with a hospital episode 8.0 8.7 Conditions: Incidence of acute conditions per 100 persons per year. 171.7 161.7 Prevalence of selected chronic conditions per 1,000 persons per year: 171.7 161.7 Arthritis	Percent with hospital episode in the past year	7.5	8.1	0.93	7.8	8.4	0.93
Conditions: Incidence of acute conditions per 100 persons per year. Year 171.7 Prevalence of selected chronic conditions per 1,000 persons per year: Arthritis Arthritis 113.1 128.3 0.88 78.2 139.3 0.56 Deafness and other hearing impairments 71.0 87.4 0.81 58.6 93.3 0.63 Deformities of orthopedic impairments 121.6 133.9 0.91 107.5 138.7 0.78 Heart disease 71.6 80.0 0.90 68.1 85.3 0.80 High blood pressure 108.2 119.4 0.91 102.0 128.6 0.79 Hemorrholds 43.6 48.5 Chronic bronchitis 46.2 48.0 Asthma	Hospital days per person with a hospital episode	8.0			8.7		
Incidence of acute conditions per 100 persons per year. 171.7 161.7 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 78.2 139.3 0.56 Arthritis	Conditions:						
year 171.7 161.7 161.7 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 78.2 139.3 0.56 Deafness and other hearing impairments 71.0 87.4 0.81 58.6 93.3 0.63 Deformities of orthopedic impairments 121.6 133.9 0.91 107.5 138.7 0.78 Heart disease 71.6 80.0 0.90 68.1 85.3 0.80 High blood pressure 108.2 119.4 0.91 102.0 128.6 0.79 Hemorrholds 43.6 48.5 Chronic bronchitis 44.0 48.0 48.0	Incidence of acute conditions per 100 persons per						
Arthritis 113.1 128.3 0.88 78.2 139.3 0.56 Deafness and other hearing impairments 71.0 87.4 0.81 58.6 93.3 0.63 Deformities of orthopedic impairments 121.6 133.9 0.91 107.5 138.7 0.78 Heart disease 71.6 80.0 0.90 68.1 85.3 0.80 High blood pressure 108.2 119.4 0.91 102.0 128.6 0.79 Hemorrhoids 43.6 48.5 Chronic bronchitis 46.2 *31.8 Asthma 44.0 48.0	year Prevalence of selected chronic conditions per 1 000 persons per veer	171.7			161.7		
Deafness and other hearing impairments 71.0 87.4 0.81 58.6 93.3 0.63 Deformities of orthopedic impairments 121.6 133.9 0.91 107.5 138.7 0.78 Heart disease 71.6 80.0 0.90 68.1 85.3 0.80 High blood pressure 108.2 119.4 0.91 102.0 128.6 0.79 Hemorrhoids 43.6 48.5 Chronic bronchitis 46.2 48.0	Arthritis	113.1	128.3	0.88	78.2	130 3	0.56
Deformities of orthopedic impairments. 121.6 133.9 0.91 107.5 138.7 0.78 Heart disease 71.6 80.0 0.90 68.1 85.3 0.80 High blood pressure 108.2 119.4 0.91 102.0 128.6 0.79 Hemorrhoids 43.6 48.5 Chronic bronchitis 46.2 *31.8 Asthma 44.0 48.0	Deafness and other hearing impairments	71.0	87.4	0.00	58.6	93.3	0.50
Heart disease 71.6 80.0 0.90 68.1 85.3 0.80 High blood pressure 108.2 119.4 0.91 102.0 128.6 0.79 Hemorrholds 43.6 48.5 48.5 Chronic bronchitis 46.2 48.0	Deformities of orthonedic impairments	121.6	133.9	0.91	107.5	138.7	0.00
High blood pressure. 108.2 119.4 0.91 102.0 128.6 0.79 Hemorrholds. 43.6 48.5 Chronic bronchitis 46.2 *31.8 Asthma 44.0 48.0	Heart disease	71.6	80.0	0.91	68.1	85.3	0.70
Hemorrholds. 43.6 48.5 Chronic bronchitis 46.2 *31.8 Asthma 44.0 48.0	High blood pressure	108.2	119.4	0.91	102.0	128.6	0.00
Chronic bronchitis 46.2 *31.8 Asthma 44.0 48.0	Hemorrholds	43.6		0.07	48.5	120.0	0.70
Asthma	Chronic hronchitis	46.2			*31.8		
	Asthma	44.0			48.0		
Hav fever	Hav fever	88.6			72.2		
Chronic sinusitis	Chronic sinusitis	114.2			131.2		

Table 11. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Philadelphia-Wilmington-Trenton consolidated metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Philadelphia-Wilmington-Trenton CMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			22,4		
18–44 years	44.4			42.4		
45-64 years	18.9			20.1		
65–74 years	6.9			9.7		
75 years and over	4.2			5.4		
Health characteristics			Ra	te		
Percent limited in activity	124	13.5	0.92	13.9	14 9	0.03
Percent with fair or poor respondent-assessed health	87	9.8	0.82	7.8	10.9	0.30
Disability days:	0.1	0.0	0.00	7.0	10.0	0.12
Bestricted-activity days per 100 persons	1,389.8			1 137 5		
Bed-disability days per 100 persons	603.3			503.3		
Work-loss days per 100 currently employed persons	00010			00010		
18-64 years of age	537.1			410.7		
School-loss days per 100 children 5-17 years of age	530.2			407.0		
Physician contacts:						
Percent with a physician contact in the past year	76.7			81.8		
Physician contacts per person	5.5			5,8		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.5	8.6	0.87
Hospital days per person with a hospital episode	8.0			8.7		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			127.1		
Prevalence of selected chronic conditions per						
1,000 persons per year:						
Arthritis	113.1	128.3	0.88	122.0	149.5	0.82
Deatness and other hearing impairments	71.0	87.4	0.81	78.9	99.2	0,80
Detormities of orthopedic impairments	121.6	133.9	0.91	82.3	139.8	0,59
	71.6	80.0	0.90	78.9	91.4	0.86
	108.2	119.4	0.91	102.7	136.3	0.75
Hemorrholds	43.6			28.5		
	46.2			51.1		
	44.0			38.2		
Hay rever.	88.6			70.9		
	114.2			89.6		

Table 12. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Philadelphia primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Philadelphia PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			23.2		
18–44 years	44.4			42.4		
45–64 years	18.9	-		19.5		
65–74 years	6.9			9.3		
75 years and over	4.2			5.5		
Health characteristics			Rat	te		
Percent limited in activity.	12.4	13.5	0.92	14.0	147	0.05
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	8.3	10.8	0.95
Disability days:				0.0	10.0	0.17
Restricted-activity days per 100 persons	1,389.8			1.231.3		
Bed-disability days per 100 persons	603.3			542.5		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			435.5		
School-loss days per 100 children 5-17 years of age	530.2			402.2		
Physician contacts:						
Percent with a physician contact in the past year	76.7			81.4		
Physician contacts per person	5.5			6.2		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.7	8.5	0.91
Hospital days per person with a hospital episode	8.0			8.9		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			139.0		
Prevalence of selected chronic conditions per						
Arthritic	110.1	100.0		100.4		
Destrong and other bearing impriments	113.1	128.3	0.88	132.4	146.7	0.90
Deamess and other nearing impairments	71.0	87.4	0.81	85.0	97.9	0.87
	121.6	133.9	0.91	88.7	138.5	0.64
	71.6	80.0	0.90	81.2	90.1	0.90
	108.2	119.4	0.91	100.4	133.6	0.75
	43.6			28.8		
	46.2			54.9		
	44.0			41.8		
	88.6			62.9		
	114.2			88.3		

Table 13. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Pittsburgh-Beaver Valley consolidated metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Pittsburgh–Beaver Valley CMSA				
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio		
	Percent distribution							
Total	100.0			100.0				
Age								
Under 18 years	25.6			20.5				
18-44 years	44.4			37.6				
45–64 years	18.9			23.4				
65–74 years	6.9			11.2				
75 years and over	4.2			7.3				
Health characteristics			Ra	te				
Percent limited in activity	12.4	13.5	0.92	12.4	16.4	0.76		
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	9.3	12.2	0.76		
Disability days:								
Restricted-activity days per 100 persons	1,389.8			1,587.3				
Bed-disability days per 100 persons	603.3			635.0				
Work-loss days per 100 currently employed persons								
1864 years of age	537.1			647.3				
School-loss days per 100 children 5-17 years of age	530.2			*473.1				
Physician contacts:								
Percent with a physician contact in the past year	76.7			76.1				
Physician contacts per person	5.5			4.9				
Hospitalization:								
Percent with hospital episode in the past year	7.5	8.1	0.93	9.0	9.0	1.00		
Hospital days per person with a hospital episode	8.0			9.7				
Conditions:								
Incidence of acute conditions year	171.7			131.0				
Prevalence of selected chronic conditions per								
Arthritie	119 1	108 9	0 88 O	151.0	172 0	0.87		
Destress and other hearing impairments	71.0	87 4	0.81	01.0	112.0	0.07		
Deformities of orthonodic impairments	101.6	122.0	0.01	84.4	1// 8	0.59		
	71.6	80.0	0.91	106.6	103.6	1.03		
High blood pressure	108.2	110 /	0.90	115.0	154.4	0.75		
Hemorrhoide	100.2		0.91	115.2	104.4	0.75		
Chronic branchitis	46.2			*29.5				
	40.2			×0.1				
Hav favor	99.6			122				
Chronic sinusitis	114.0			42.2				
	114.2			88.9				

Table 14. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Midwest Region large consolidated metropolitan statistical areas and large metropolitan statistical areas: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Midwest Region		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			27.0		
18–44 years	44.4			44.0		
45–64 years	18.9			18.8		
65–74 years,	6.9			6.3		
75 years and over	4.2			3.9		
Health characteristics			Ra	te		
Percent limited in activity	10.4	10 5	0.02	12.0	12.0	0.09
Percent with fair or poor respondent-assessed health	12.4	13.5	0.92	13.0	0.5	0.98
Disability days:	0.7	5.0	0.09	6.9	9.5	0.94
Restricted-activity days per 100 persons	1,389.8			1,309.8		~
Bed-disability days per 100 persons	603.3			550.6	~	
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			510.2		
School-loss days per 100 children 5-17 years of age	530.2			543.9		
Physician contacts:						
Percent with a physician contact in the past year	76.7			77.1		
Physician contacts per person	5.5			5.4		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	8.0	8.0	1.00
Hospital days per person with a hospital episode	8.0			8.1		
Conditions:						
incidence of acute conditions per 100 persons per						
year	171.7			181.2		
Prevalence of selected chronic conditions per						
1,000 persons per year:		100.0				
	113.1	128.3	0.88	122.0	123.6	0.99
Deatness and other nearing impairments	71.0	87.4	0.81	73.9	84.6	0.87
Deformities of orthopedic impairments	121.6	133.9	0.91	131.8	131.9	1.00
Heart disease	71.6	80.0	0.90	75.0	77.4	0.97
High blood pressure	108.2	119.4	0.91	118.8	115.5	1.03
Hemorrholds.	43.6			41.5		
Chronic bronchitis	46.2		~	50.7		
Asthma,	44.0			42.7		
Hay fever	88.6			84.7		
Chronic sinusitis	114.2			151.1		

Table 15. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Chicago-Gary-Lake County consolidated metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Chicago–Gary–Lake County CMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			27.2		
18–44 years	44.4			44.0		
45–64 years	18.9			18.6		
65–74 years	6.9			6,4		
75 years and over	4.2			3.8		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	12.4	13.2	0.94
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	8.7	9.5	0.92
Restricted-activity days per 100 persons	1,389.8			1,389.2		
Bed-disability days per 100 persons	603.3			518.1		
18-64 years of age	537.1			596.5		
School-loss days per 100 children 5–17 years of age Physician contacts:	530.2			558.9		
Percent with a physician contact in the past year	76.7			75.5		
Physician contacts per person	5.5			4.5		
Percent with hospital episode in the past year	7.5	8.1	0.93	8.0	7.9	1.01
Hospital days per person with a hospital episode	8.0			8.5		
Conditions:						
Incidence of acute conditions per 100 persons per						
year Prevalence of selected chronic conditions per 1.000 persons per year:	171.7			140.9		
Arthritis	113.1	128.3	0.88	118.6	123.0	0.96
Deatness and other bearing impairments	71.0	87.4	0.81	60.4	84.3	0.72
Deformities of orthopedic impairments.	121.6	133.9	0.91	100.4	131.5	0.76
Heart disease	71.6	80.0	0.90	80.0	77.1	1.04
High blood pressure	108,2	119.4	0.91	116.8	115.0	1.02
Hemorrhoids.	43.6			48.8		
Chronic bronchitis	46,2			51.1		
Asthma	44.0			40.0		
Hay fever	88.6			84.7		
Chronic sinusitis	114.2			114.8		

Table 16. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Chicago primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Chicago PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			27.1		
18–44 years	44.4			44.3		
45–64 years	18.9			18.5		
65–74 years	6.9			6.4		
75 years and over	4.2			3.8		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	11.9	13.1	0.91
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	8.4	9.5	0.88
Restricted-activity days per 100 persons	1,389.8			1,274.1		
Bed-disability days per 100 persons	603.3			471.5		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			601.6		
School-loss days per 100 children 5-17 years of age	530.2			517.1		
Physician contacts:						
Percent with a physician contact in the past year	76.7			75.8		
Physician contacts per person	5.5			4.5		
Percent with hospital episode in the past year	7.5	8.1	0.93	7.8	8.0	0.98
Hospital days per person with a hospital episode	8.0		~	8.4		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			140.0		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	118.8	122.9	0.97
Deafness and other hearing impairments	71.0	87.4	0.81	57.9	84.3	0.69
Deformities of orthopedic impairments	121.6	133.9	0.91	92.5	131.8	0.70
Heart disease	71.6	80.0	0.90	81.7	77.1	1.06
High blood pressure	108.2	119.4	0.91	118.2	114.9	1.03
Hemorrholds	43.6			51.0		
Chronic bronchitis	46.2			52.9		
Asthma	44.0			37.5		
Hay fever	88.6			83.6		
Chronic sinusitis	114.2			113.0		_

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Table 17. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Cincinnati–Hamilton consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Cincinnati-Hamilton CMSA			
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio	
	Percent distribution						
Total	100.0			100.0			
Age							
Under 18 years	25.6			28.9			
18–44 years	44.4			43.8			
45–64 years	18.9			16.6			
65–74 years	6.9			6.5			
75 years and over	4.2			4.1			
Health characteristics			Ra	te			
Percent limited in activity	124	13.5	0.92	13.9	129	1.08	
Percent with fair or poor respondent-assessed bealth	87	9.8	0.89	10.9	93	1.00	
Disability days:	0.7	0.0	0.00	10.0	5.5		
Restricted-activity days per 100 person	1,389,8			1.346.4			
Bed-disability days per 100 persons	603.3			546.3			
Work-loss days per 100 currently employed persons							
18-64 years of age	537.1			656.0			
School-loss days per 100 children 5-17 years of age	530.2			*549.1			
Physician contacts:							
Percent with a physician contact in the past year	76.7			79.0			
Physician contacts per person	5.5			6.4			
Hospitalization:							
Percent with hospital episode in the past year	7.5	8.1	0.93	10.2	7.9	1.29	
Hospital days per person with a hospital episode	8.0			8.7			
Conditions:							
Incidence of acute conditions per 100 persons per							
year	171.7			189.1			
Prevalence of selected chronic conditions per							
1,000 persons per year:							
	113.1	128.3	0.88	117.7	119.5	0.98	
Dearness and other nearing impairments	71.0	87.4	0.81	84.1	83.1	1.01	
	121.6	133.9	0.91	132.7	129.0	1.03	
	71.6	80.0	0.90	83.5	76.1	1.10	
	108.2	119.4	0.91	156.8	111.4	1.41	
Hemorrhoids.	43.6			*36.0			
	46.2			46.8			
Asthma	44.0			*22.2			
Hay fever	88.6			58.3			
Chronic sinusitis	114.2			173.6			

Table 18. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Cincinnati primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Cincinnati PMSA			
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbldity ratio	
	Percent distribution						
Total	100.0			100.0			
Age							
Under 18 years	25.6			28.0			
18–44 years	44.4			44.1			
45–64 years	18.9			16.1			
65–74 years	6.9			6.9		_	
75 years and over	4.2			4.8			
Health characteristics	Rate						
Percent limited in activity	12.4	13.5	0.92	14.0	13.2	1.06	
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	11.5	9.5	1.21	
Restricted-activity days per 100 person	1,389.8			1,439.3			
Bed-disability days per 100 persons	603.3			616.4		~	
18–64 years of age	537.1			624.2			
School-loss days per 100 children 5–17 years of age	530.2			*660.1			
Percent with a physician contact in the past year	76 7			80.0			
Physician contacts per person	55			63			
Hospitalization:	0.0			0.0			
Percent with hospital episode in the past year	7.5	8.1	0.93	10.7	8.0	1.34	
Hospital days per person with a hospital episode	8.0			8.3			
Conditions:							
Incidence of acute conditions per 100 persons per		,					
Year Prevalence of selected chronic conditions per 1,000 persons per year:	171.7	`		212.3			
Arthritis	113.1	128.3	0.88	106.0	123.8	0.86	
Deafness and other hearing impairments	71.0	87.4	0.81	87.9	86.0	1.02	
Deformities or orthopedic impairments	121.6	133.9	0.91	136.5	130.6	1.05	
Heart disease	71.6	80.0	0.90	91.5	78.7	1.16	
High blood pressure	108.2	119.4	0.91	165.6	114.4	1.45	
Hemorrhoids.	43.6			*43.6			
Chronic bronchitis	46.2			*47.9			
Asthma	44.0			*26.9			
Hay fever	88.6			61.7	,		
Chronic sinusitis	114.2			187.4			

Table 19. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Cleveland–Akron–Lorain consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic Observed Expected Motivity ratio Observed Expected Motivity ratio Total 100.0 100.0 Age 100.0 100.0 Age 24.2	Age and health characteristic	All large CMSA's and MSA's			Cleveland–Arkon–Lorain CMSA			
Percent distribution Total 100.0 100.0 Age 100.0 100.0 18-44 years 25.6 42.0 45-64 years 18.9 42.0 45-74 years 6.9 7.4 75 years and over 4.2 4.5 75 years and over 12.4 13.5 0.92 12.9 14.2 0.91 Percent limited in activity. 12.4 13.5 0.92 12.9 14.2 0.91 Diability days per 100 persons 1380.8 1502.0 Bed disability days per 100 persons 633.1 404.6 Schoolosity days per 100 children 5-17 years of age 537.1 404.6		Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio	
Total		Percent distribution						
Age Under 18 years. 25.6 24.2 45-44 years. 18.9 21.9 45-74 years. 6.9 7.4 65-74 years. 6.9 7.4 65-74 years. 4.2 4.5 Heath characteristics Percent with fair or poor respondent-assessed health. 8.7 9.8 0.89 10.1 10.3 0.98 Disability days: Bed-disability days per 100 persons. 1389.8 1502.0 Bed-disability days per 100 currently employed persons 633.1 404.6 Bed-disability days per 100 currently employed persons 537.1 457.2 Procent with a physician contact in the past year 75.5 8.1 0.93 </td <td>Total</td> <td>100.0</td> <td></td> <td></td> <td>100.0</td> <td></td> <td></td>	Total	100.0			100.0			
Under 18 years 25.6 24.2 18-44 years 44.4 42.0 18-5-4 years 6.9 21.9 65-7 years 6.9 7.4 16-4 years 6.9 7.4 75 years and over 4.2 7.4 Health characteristics Fate 4.5 Percent limited in activity 0.9 persons 13.89.8 15.02.0 Bed-disability days per 100 persons 13.89.8 608.1 Work-loss days per 100 children 5-17 years of age. 530.2 404.6 Physician contacts: 76.2 Physician contacts Physician contacts Percent with hospital episode in the past year 7.5 8.1 0.93 8.6 <t< td=""><td>Age</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Age							
18-44 years. 44.4 42.0 42.6 45-64 years. 18.9 21.9 45-74 years. 6.9 7.4 75 years and over 4.2 7.4 Health characteristics Percent limite in activity. 12.4 13.5 0.92 12.9 14.2 0.91 Percent limite in activity. 12.4 13.5 0.92 12.9 14.2 0.91 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 10.1 10.3 0.98 Disability days: 1,502.0 Bed disability days per 100 persons 603.3 608.1 18-64 years of age 537.1 457.2 Physician contacts the past year 76.7 53 Precent with a physician contacts in the past year 7.5 8.1 0.93	Under 18 years	25.6			24.2			
45-64 years. 18.9 21.9 65-74 years. 6.9 7.4 65-74 years. 4.2 4.5 Health characteristics Rate Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 10.1 10.3 0.98 Disability days per 100 persons. 1.389.8 1.502.0 Bed-disability days per 100 persons. 603.3 404.6 School-loss days per 100 children 5-17 years of age. 530.2 457.2 Physician contacts 76.7 5.3 Physician contacts per person 5.5 5.3 Physician contacts <td< td=""><td>18-44 years</td><td>44.4</td><td></td><td></td><td>42.0</td><td></td><td></td></td<>	18-44 years	44.4			42.0			
65-74 years,	45–64 years	18.9			21.9			
75 years and over 4.2 4.5 Health characteristics Rate Percent with fail or poor respondent-assessed health 8.7 9.8 0.89 10.1 10.3 0.98 Disability days: Retricted-activity days per 100 persons 1389.8 1502.0 Bed-disability days per 100 persons 603.3 608.1 Work-loss days per 100 currently employed persons 537.1 404.6 School-loss days per 100 currently employed persons 530.2 457.2 Physician contacts: Percent with the physician contact in the past year 76.7 5.3 Physician contacts per person with a hospital episode 8.0 9.4 Physician contacts per person with a hospital episode 8.0 Physician contacts per person with a hospital episode 8.0 Physician contac	65–74 years	6.9			7.4			
Health characteristics Rate Percent limited in activity	75 years and over	4.2			4.5			
Percent limited in activity. 12.4 13.5 0.92 12.9 14.2 0.91 Percent with fair or poor respondent-assessed health	Health characteristics	Rate						
Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 10.1 10.3 0.98 Disability days :	Percent limited in activity	12.4	13.5	0.92	12.9	14.2	0.91	
Disability days: 1,389.8 1,502.0 Bed disability days per 100 persons 603.3 608.1 Work-loss days per 100 currently employed persons 603.3 608.1 Work-loss days per 100 currently employed persons 537.1 404.6 School-loss days per 100 children 5-17 years of age. 530.2 457.2 Physician contacts: 76.7 76.3 Propositial calcular person 55 5.3 Hospital days per person with a hospital episode in the past year 7.5 8.1 0.93 8.6 8.3 1.04 Hospital days per person with a hospital episode 8.0 9.4 Conditions: 171.7 197.6 Prevalence of selected chronic conditions per 1,000 persons per year. 171.0 87.4 0.	Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	10.1	10.3	0.98	
Restricted-activity days per 100 persons 1,389.8 1,502.0 Bed-disability days per 100 persons 603.3 608.1 Work-loss days per 100 currently employed persons 537.1 404.6 School-loss days per 100 children 5-17 years of age. 530.2 457.2 Physician contacts: Percent with a physician contact in the past year 76.7 76.2 Physician contacts: Percent with hospital episode in the past year 7.5 8.1 0.93 8.6 8.3 1.04 Hospital/adivis 110.1 7.5 8.1 0.93 8.6 8.3 1.04 Hospital days per person with a hospital episode 8.0 9.4 Prevent with hospital episode in the past year 71.7 197.6 Conditions: 171.7 197.6 Prevalence of selected chronic conditions per 1.000 persons per year: <t< td=""><td>Disability days:</td><td></td><td>,</td><td></td><td></td><td></td><td></td></t<>	Disability days:		,					
Bed-disability days per 100 persons 603.3 603.1 Work-loss days per 100 currently employed persons 537.1 404.6 School-loss days per 100 children 5-17 years of age. 530.2 457.2 Physician contacts: 5.5 5.3 Hospitalization: 5.5 5.3 Hospital days per person with a hospital episode in the past year 7.5 8.1 0.93 8.6 8.3 1.04 Hospital days per person with a hospital episode 8.0 9.4 Prevalence of acute conditions per 100 persons per year: 171.7 197.6 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 158.7 139.1 1.14 Deafmess and other hearing impairments 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 1065.2	Restricted-activity days per 100 persons	1.389.8		- - -	1.502.0			
Work-loss days per 100 currently employed persons 537.1 404.6 School-loss days per 100 children 5–17 years of age. 530.2 457.2 Physician contacts: 457.2 Physician contacts per person 5.5 5.3 Physician contacts per person with a hospital episode in the past year 7.5 8.1 0.93 8.6 8.3 1.04 Hospitalization: 9.4 Conditions: Incidence of acute conditions per 100 persons per year: 171.7 197.6 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 158.7 139.1 1.14 Deafness and other hearing impairments 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 106.2 119.4 0.91 110.4 128.5 0.86 Heard disease 71.6 80.0 0.90<	Bed-disability days per 100 persons	603.3			608.1			
18-64 years of age 537.1 404.6 School-loss days per 100 children 5–17 years of age. 530.2 457.2 Physician contacts: Percent with a physician contact in the past year	Work-loss days per 100 currently employed persons							
School-loss days per 100 children 5–17 years of age. 530.2 457.2 Physician contacts: Percent with a physician contact in the past year	18-64 years of age	537.1			404.6			
Physician contacts: Percent with a physician contact in the past year 76.7 76.2 Physician contacts per person	School-loss days per 100 children 5-17 years of age	530.2			457.2			
Percent with a physician contact in the past year	Physician contacts:							
Physician contacts per person 5.5 5.3 Hospitalization: Percent with hospital episode in the past year 7.5 8.1 0.93 8.6 8.3 1.04 Hospital days per person with a hospital episode 8.0 9.4 Conditions: Incidence of acute conditions per 100 persons per year. 171.7 197.6 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 158.7 139.1 1.14 Deafness and other hearing impairments 71.0 87.4 0.81 70.7 92.5 0.76 Deformities or orthopedic impairments 121.6 133.9 0.91 145.7 136.9 1.06 Heart disease 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids 43.6 57.4 Chronic bronchitis 48.6 <	Percent with a physician contact in the past year	76.7		_	76.2			
Hospitalization: Percent with hospital episode in the past year 7.5 8.1 0.93 8.6 8.3 1.04 Hospital days per person with a hospital episode 8.0 9.4 Conditions: Incidence of acute conditions per 100 persons per year. 171.7 197.6 Prevalence of selected chronic conditions per 1,000 persons per year: 171.1 128.3 0.88 158.7 139.1 1.14 Deafness and other hearing impairments	Physician contacts per person	5.5			5.3			
Percent with hospital episode in the past year	Hospitalization:							
Hospital days per person with a hospital episode 8.0 9.4 Conditions: Incidence of acute conditions per 100 persons per year. 171.7 197.6 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 158.7 139.1 1.14 Deafness and other hearing impairments 71.0 87.4 0.81 70.7 92.5 0.76 Deformities or orthopedic impairments 121.6 133.9 0.91 145.7 136.9 1.06 Heart disease 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids 43.6 57.4 Asthma 44.0 53.4 Hay fever 88.6 95.0 Hay fever 114.2 190.7	Percent with hospital episode in the past year	7.5	8.1	0.93	8.6	8.3	1.04	
Conditions: Incidence of acute conditions per 100 persons per year. 171.7 197.6 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 158.7 139.1 1.14 Deafness and other hearing impairments 113.1 128.3 0.81 70.7 92.5 0.76 Deformities or orthopedic impairments 121.6 133.9 0.91 145.7 136.9 1.06 Heart disease 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids 43.6 57.4 Asthma 44.0 53.4 53.4 Hay fever 88.6 95.0 190.7	Hospital days per person with a hospital episode	8.0			9.4			
Incidence of acute conditions per 100 persons per year. 171.7 197.6 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 158.7 139.1 1.14 Deafness and other hearing impairments 113.1 128.3 0.88 158.7 139.1 1.14 Deafness and other hearing impairments 71.0 87.4 0.81 70.7 92.5 0.76 Deformities or orthopedic impairments 121.6 133.9 0.91 145.7 136.9 1.06 Heart disease 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids 43.6 57.4 Chronic bronchitis 46.2 53.4 53.4 Hay fever 88.6 95.0 190.7	Conditions:							
year 171.7 197.6 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 158.7 139.1 1.14 Deafness and other hearing impairments 71.0 87.4 0.81 70.7 92.5 0.76 Deformities or orthopedic impairments 121.6 133.9 0.91 145.7 136.9 1.06 Heart disease 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids 43.6 57.4 Asthma 44.0 53.4 Hay fever 88.6 95.0 Or provide singuistis 114.2 190.7	Incidence of acute conditions per 100 persons per							
Prevalence of selected chronic conditions per 1,000 persons per year: Arthritis	year	171.7			197.6			
Arthritis 113.1 128.3 0.88 158.7 139.1 1.14 Deafness and other hearing impairments 71.0 87.4 0.81 70.7 92.5 0.76 Deformities or orthopedic impairments 121.6 133.9 0.91 145.7 136.9 1.06 Heart disease 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids 43.6 58.7 Chronic bronchitis 44.0 53.4 Hay fever 88.6 95.0 Chronic sinusitis 114.2 190.7	Prevalence of selected chronic conditions per 1,000 persons per year:							
Deafness and other hearing impairments 71.0 87.4 0.81 70.7 92.5 0.76 Deformities or orthopedic impairments 121.6 133.9 0.91 145.7 136.9 1.06 Heart disease 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids 43.6 58.7 Chronic bronchitis 44.0 53.4 Hay fever 88.6 95.0 Chronic sinusitis 114.2 190.7	Arthritis	113.1	128.3	0.88	158.7	139.1	1.14	
Deformities or orthopedic impairments 121.6 133.9 0.91 145.7 136.9 1.06 Heart disease 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids 43.6 58.7 Chronic bronchitis 46.2 57.4 Asthma 44.0 53.4 Hay fever 88.6 95.0 Chronic sinusitis 114.2 190.7	Deafness and other hearing impairments	71.0	87.4	0.81	70.7	92.5	0.76	
Heart disease 71.6 80.0 0.90 67.7 84.9 0.80 High blood pressure 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids 43.6 58.7 Chronic bronchitis 46.2 57.4 Asthma 44.0 53.4 Hay fever 88.6 95.0 Chronic sinusitis 114.2 190.7	Deformities or orthopedic impairments	121.6	133.9	0.91	145.7	136.9	1.06	
High blood pressure. 108.2 119.4 0.91 110.4 128.5 0.86 Hemorrhoids. 43.6 58.7 Chronic bronchitis 46.2 57.4 Asthma 44.0 53.4 Hay fever 88.6 95.0 Chronic sinusitis 114.2 190.7	Heart disease	71.6	80.0	0.90	67.7	84.9	0.80	
Hemorrhoids. 43.6 58.7 Chronic bronchitis 46.2 57.4 Asthma 44.0 53.4 Hay fever 88.6 95.0 Chronic sinusitis 114.2 190.7	High blood pressure	108.2	119.4	0.91	110.4	128.5	0.86	
Chronic bronchitis 46.2 57.4 Asthma 44.0 53.4 Hay fever 88.6 95.0 Chronic sinusitis 114.2 190.7	Hemorrhoids.	43.6			58.7			
Asthma 44.0 53.4 Hay fever 88.6 95.0 Chronic sinusitis 114.2 190.7	Chronic bronchitis	46.2			57.4			
Hay fever 88.6 95.0 Chronic sinusitis 114.2 190.7	Asthma	44 0			53.4			
Chronic sinusitis	Hav fever	88.6			95.0			
	Chronic sinusitis	114.2			190.7			

Table 20. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Cleveland consolidated metropolitan statistical area: United States, 1988--89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Cleveland PMSA			
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio	
	Percent distribution						
Total	100.0			100.0			
Age							
Under 18 years	25.6			24.4			
18-44 years	44.4			41.6			
45–64 years	18.9			20.9		_	
65–74 years	6.9			8.1			
75 years and over	4.2			5.1			
Health characteristics	Rate						
Percent limited in activity	12.4	13.5	0.92	12.0	14.4	0.83	
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	9.3	10.5	0.89	
Restricted-activity days per 100 persons	1,389.8			1,163.7			
Bed-disability days per 100 persons	603.3			494.5			
18–64 years of age	537.1			364.6			
School-loss days per 100 children 5-17 years of age	530.2			*446.1		-	
Parcent with a physician contact in the past year	76 7			76 5			
Porcent with a physician contact in the past year	70.7			70.5			
Hospitalization:	5.5			4.0			
Percent with hospital episode in the past year	7.5	8.1	0.93	7.6	8.4	0.90	
Hospital days per person with a hospital episode	8.0			10.5			
Conditions:							
incidence of acute conditions per 100 persons per	171 7			170.0			
Prevalence of selected chronic conditions per 1.000 persons per vear:	171.7			173.3			
Arthritis	113.1	128.3	0.88	190.2	142.5	1.33	
Deafness and other hearing impairments	71.0	87.4	0.81	86.4	95.0	0.91	
Deformities or orthopedic impairments	121.6	133.9	0.91	141.8	137.1	1.03	
Heart disease	71.6	80.0	0.90	63.9	87.3	0.73	
High blood pressure	108.2	119.4	0.00	116.8	130.6	0.70	
Hemorrholds	43.6			65.4			
Chronic bronchitis	46.2			56.9			
Asthma	44.0			37.4			
Hav faver	88.6			80 Q			
Chronic sinusitis	114.2			151.8			
	4 J - T + Max						
Table 21. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Columbus metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	Observed 100.0 25.6	Expected	Morbidity ratio Percent dis	Observed	Expected	Morbidity ratio		
	100.0 25.6		Percent dis					
	100.0 25.6			sinoution				
Total	25.6			100.0				
Age	25.6							
Under 18 years				24.0				
18–44 years	44.4			46.1				
45–64 years	18.9			19.1				
6574 years	6.9			6.5				
75 years and over	4.2			4.3				
Health characteristics	Rate							
Percent limited in activity.	12.4	13.5	0.92	12.8	13.5	0.95		
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	9.1	9.8	0.93		
Restricted-activity days per 100 persons	1,389.8			1,508.1				
Bed-disability days per 100 persons	603.3			600.0				
18–64 years of age	537.1			601.7				
School-loss days per 100 children 5-17 years of age.	530.2			*366.8				
Physician contacts:								
Percent with a physician contact in the past year	76.7	~~		80.6				
Physician contacts per person	5.5			5.5				
Percent with hospital episode in the past year	7.5	8.1	0.93	8.7	8.2	1.06		
Hospital days per person with a hospital episode	8.0			6.4				
Conditions:								
Incidence of acute conditions per 100 persons per								
year Prevalence of selected chronic conditions per 1 000 persons per vear	171.7			183.5				
Arthritis	113 1	128 3	0.88	174.8	128 5	1 36		
Deafness and other bearing impairments	71.0	87.4	0.00	*50 /	97.6	*0.59		
Deformities or orthonedic impairments	121.6	133.0	0.01	133.1	135.8	0.08		
Heart disease	71.6	80.0	0.91	827	70.8	1.04		
High blood pressure	108.2	119.4	0.00	124 4	119.8	1.04		
Hemorrhoids	43.6			*44.1				
Chronic bronchitis	46.0			*30 /				
Asthma	44.0			55.4				
Hav fever	88.6			82.7				
Chronic sinusitis	114.2			177 2				

Table 22. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Detroit-Ann Arbor consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Detroit-Ann Arbor CMSA		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			26.9		
18-44 years	44.4			43.7		
45-64 years	18.9			19.5		
65–74 years	6.9			5.8		
75 years and over	4.2			4.0		_
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	16.0	13.2	1.21
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	10.5	9.5	1.11
Restricted-activity days per 100 persons	1,389.8			1,401.8		
Bed-disability days per 100 persons	603.3			654.9		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			485.1		
School-loss days per 100 children 5-17 years of age	530.2			588.8		
Physician contacts:						
Percent with a physician contact in the past year	76.7			79.8		
Physician contacts per person	5.5			6.9		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.3	7.9	0.92
Hospital days per person with a hospital episode	8.0			8.2		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			183.8		
Prevalence of selected chronic conditions per						
Attrille	110 1	100.0	0.00	150 1	100 6	1.02
	71.0	120.3	0.00	152.1	123.0	1.23
Deamess and other nearing impainments	101.6	07.4	0.01	105.0	192.0	1.24
	71.6	90.0	0.91	105.4	77 1	1.13
	102.0	110.0	0.90	105.9	115 5	1.37
	100.2	175.4	0.91	40.0	115.5	1.14
	43.0			40.9	~	
	40.2			33.0 47.9		
Asuma	44.U 99 G			47.0		
Chronia cinusitia	0.00			91.0		
	114.2			206.1		

Table 23. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Detroit primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Detroit PMSA		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution	<u></u>	
Total	100.0			100.0		
Age						
Under 18 years	25.6			26.6		
18–44 years	44.4			43.6		
45-64 years	18.9			19.5		
65–74 years	6.9			6.1		
75 years and over	4.2			4.2		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	16.2	13.4	1 21
Percent with fair or poor respondent-assessed health	87	0.8	0.89	10.5	9.6	1.21
Disability days:	0.7	5.0	0.00	10.0	0.0	1.00
Restricted-activity days per 100 persons	1.389.8			1.404.6		
Bed-disability days per 100 persons	603.3			639.6		
Work-loss days per 100 currently employed persons						
18-64 years of age	537.1			447.3		
School-loss days per 100 children 5-17 years of age.	530.2			606.9		
Physician contacts:						
Percent with a physician contact in the past year	76.7			79.8		
Physician contacts per person	5.5			6.9		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.2	8.0	0,90
Hospital days per person with a hospital episode	8.0			7.9		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			184.5		
Prevalence of selected chronic conditions per 1,000						
persons per year:						
Arthritis	113.1	128.3	0.88	154.0	126.0	1.22
Deafness and other hearing impairments	71.0	87.4	0.81	106.1	85.9	1.24
Deformities or orthopedic impairments	121.6	133.9	0.91	160.2	132.7	1.21
Heart disease	71.6	80.0	0.90	108.8	78.5	1.39
High blood pressure	108.2	119.4	0.91	135.7	117.4	1.16
Hemorrhoids.	43.6			38.7		
Chronic bronchitis	46.2			54.8		
Asthma	44.0			46.6		
Hay fever	88.6			90.8		
Chronic sinusitis	114.2			215.9		

Table 24. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Indianapolis metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Indianapolis MSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
· · · · · · · · · · · · · · · · · · ·			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			28.9		
18-44 years	44.4			42.1		
45-64 years	18.9			18.2		
65–74 years	6.9			6.4		
75 years and over	4.2			4.4		
			Ra	te		
Health characteristics						
Percent limited in activity	12.4	13.5	0.92	10.7	13.2	0.81
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	8.3	9.5	0.87
Disability days:						
Restricted-activity days per 100 persons	1.389.8			1.338.0		
Bed-disability days per 100 persons	603.3			676.4		~
Work-loss days per 100 currently employed persons						
18-64 years of age	537.1			621.3		
School-loss days per 100 children 5–17 years of age Physician contacts:	530.2			*436.1		
Percent with a physician contact in the past year	76.7			73.8		
Physician contacts per person	5.5			4.3		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	6.3	7.9	0.80
Hospital days per person with a hospital episode	8.0			7.9		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			170.5		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	100.7	124.2	0.81
Deafness and other hearing impairments	71.0	87.4	0.81	*54.8	85.3	*0.64
Deformities or orthopedic impairments	121.6	133.9	0.91	81.8	129.8	0.63
Heart disease	71.6	80.0	0.90	*32.7	78.2	*0.42
High blood pressure	108.2	119.4	0.91	107.2	115.0	0.93
Hemorrhoids	43.6	`		*19.6		
Chronic bronchitis	46.2			56.5		~
Asthma	44.0			*28.6		
Hav fever.	88.6	~		*54.0		
Chronic sinusitis	114.2			131.8	~	

Table 25. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Kansas City metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Kansas City MSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 vears.	25.6			28.9		
18–44 vears	44,4			42.2		
45–64 years	18.9			17.7		
65–74 years	6.9			6.9	<u>`</u>	
75 years and over	4.2			4.2		
Health characteristics			Ra	te		
Developed the land in weath-the	10.4	105	0.00		10.0	0.64
	12.4	13.5	0.92	8.4	13.2	0.64
Disability days:	0.7	9.6	0.89	7.0	9.5	0.60
Restricted-activity days per 100 persons	1,389.8			759.0		
Bed-disability days per 100 persons	603.3			372.0		
18–64 years of age	537.1		·	277.2		
School-loss days per 100 children 5–17 years of age Physician contacts:	530.2			*520.9		
Percent with a physician contact in the past year	76.7			77.0		
Physician contacts per person	5.5			4.6		
Percent with hospital episode in the past year	7.5	8.1	0.93	7.8	7.9	0.99
Hospital days per person with a hospital episode	8.0			6.6		
Incidence of courte conditions per 100 percent per						
vear	171.7			164.1		
Prevalence of selected chronic conditions per 1,000 persons per vear:						
Arthritis	113.1	128.3	0.88	65.3	124.0	0.53
Deafness and other hearing impairments	71.0	87.4	0.81	78.7	85.2	0.92
Deformities or orthopedic impairments	121.6	133.9	0.91	90.3	129.5	0.70
Heart disease	71.6	80.0	0.90	54.4	78.3	0.69
High blood pressure	108.2	119.4	0.91	91.5	115.0	0.80
Hemorrhoids	43.6			44.2		
Chronic bronchitis	46.2			44.2		
Asthma	44.0			53.8		
Hav fever.	88.6			81.9		
Chronic sinusitis	114.2			145.3		

Table 26. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Milwaukee-Racine consolidated metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Milwaukee-Racine CMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			27.9		
18–44 years	44.4			43.9		
45–64 years	18.9			19.1		
65–74 years	6.9			5.5		
75 years and over	4.2			3.6		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	14.3	12.9	1.11
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	9.0	9.2	0.97
Disability days:						
Restricted-activity days per 100 persons	1.389.8			1.177.7	~	
Bed-disability days per 100 persons	603.3			584.5		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			411.9		
School-loss days per 100 children 5-17 years of age.	530.2			*537.6		
Physician contacts:						
Percent with a physician contact in the past year	76.7			77.1		
Physiclan contacts per person	5.5			5.1		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.8	7.8	1.00
Hospital days per person with a hospital episode	8.0			7.6		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			200.4		
Prevalence of selected chronic conditions per 1,000						
persons per year:						
Arthritis	113.1	128.3	0.88	103.2	119.2	0.87
Deafness and other hearing impairments	71.0	87.4	0.81	81.0	82.0	0.99
Deformities or orthopedic impairments	121.6	133.9	0.91	142.3	130.4	1.09
Heart disease	71.6	80.0	0.90	74.1	74.8	0.99
High blood pressure	108.2	119.4	0.91	122.4	112.0	1.09
Hemorrholds	43.6			39.7		
Chronic bronchitis	46.2			58.3		
Asthma	44.0			57.1		
Hay fever	88.6			42.6		
Chronic sinusitis	114.2			147.5		

Table 27. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Milwaukee primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Milwaukee PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			28.1		
18-44 years	AA A			44.3		
45-64 years	19.0			10.0		
6571 voare	10.5			5.0		
75 years and over	4.2			34		
	-114		_			
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	13.8	12.8	1.08
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	9.0	9.2	0.98
Restricted-activity days per 100 persons	1,389.8			1,106.3		
Bed-disability days per 100 persons	603.3			587.7		
18–64 years of age	537.1			343.9		
School-loss days per 100 children 5-17 years of age	530.2			*554.6		
Physician contacts:						
Percent with a physician contact in the past year	76.7			77.0		
Physician contacts per person	5.5			4.9		
Percent with hospital episode in the past year	7.5	8.1	0.93	7.5	7.8	0.96
Hospital days per person with a hospital episode	8.0			7.4		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			206.5		
Arthritis	113.1	128.3	0.88	101.9	117.0	0.87
Deafpess and other hearing impairments	71.0	87.4	0.81	80.1	80.8	0.07
Deformities or orthopedic impairments	121.6	133.9	0.91	134.0	129.9	1.03
Heart disease	71.6	80.0	0.91	60.0	79.7	0.05
	108.2	119.4	0.50	126.0	110.7	1 1 5
Hemorrhoide	100.2	110.4	0.51	120.5	110.4	1.10
Chronic bronchitis	46.2			53.8		
Asthma	44.0			59.0		
Hav fever	27.0 28 G			03.0 Ar R		
Chronic sinusitis	114.2			1/8 7		
	114.4			140.7		

Table 28. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Minneapolis-St. Paul metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Minneapolis–St. Paul MSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			28.6		
18–44 years	44.4			46.9		
45-64 years	18.9			17.0		
65–74 years	6.9			4.4		
75 years and over	4.2			3.1		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	11.9	12.1	0.98
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	5.2	8.6	0.60
Disability days:						
Restricted-activity days per 100 persons	1.389.8			1.080.2		
Bed-disability days per 100 persons	603.3			421.9		
Work-loss days per 100 currently employed persons						
18-64 years of age	537.1			457.3		
School-loss days per 100 children 5-17 years of age	530.2			581.1		
Physiclan contacts:						
Percent with a physician contact in the past year	76.7			77.5		
Physician contacts per person	5.5			5.6		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.2	7.6	0.95
Hospital days per person with a hospital episode	8.0			5.5		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			291.6		
Prevalence of selected chronic conditions per 1,000						
persons per year:	110 1	100.0	0.00	70.0	107 4	0.70
Arumus	74.0	120.3	0.60	76.0	107.4	0.72
Dealness and other hearing impairments	71.0	87.4	0.81	68.1	76.0	1.16
	121.0	133.9	0.91	177.0	128.3	1.38
	108.0	80.0	0.90	51.7	100.9	0.75
	100.2	119.4	0.91	100.0	102.0	0.96
	43.0			10.7		
	40.2			33.0		
Aguuna	44.0			108 3		
Chronia eleveitie	114.2			61 4		
	114.4			01.4		

Table 29. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and St. Louis metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			St. Louis MSA			
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio	
	Percent distribution						
Total	100.0			100.0			
Age							
Under 18 years	25.6			25.8			
18-44 years	44.4			45.5			
45-64 years	18.9			18.7			
6574 years	6.9			6.8			
75 years and over	4.2			. 3.2			
Health characteristics			Ra	te			
Percent limited in activity	12.4	13.5	0.92	12.9	13.1	0.98	
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	8.6	9.4	0.91	
Disability days:							
Restricted-activity days per 100 persons	1,389.8			1,197.2			
Bed-disability days per 100 persons	603.3			533.8			
Work-loss days per 100 currently employed persons	507 4			400 1			
School loss doug per 100 shildren 5 17 years of ano	537.1			402.1			
School-loss days per 100 children 5-17 years of age	530.2			623.0			
Privation contacts.	76 7			76 7			
Percent with a physician contact in the past year	70.7			70.7			
Hospitalization:	5.5			5.5			
Percent with hospital episode in the past year	75	8.1	0.93	8.8	8.0	1.10	
Hospital days per person with a bospital episode	80			86			
Conditions:	0.0			0.0			
Incidence of acute conditions per 100 persons per							
year	171.7			171.0			
Prevalence of selected chronic conditions per 1,000							
Arthritis	113.1	128.3	0.88	115.8	112.6	0.94	
Deafness and other hearing impairments	71.0	87.4	0.81	58.5	83.8	0.70	
Deformities or orthopedic impairments	121.6	133.9	0.91	164.3	132.9	1.24	
Heart disease	71.6	80.0	0.90	62.3	76.7	0.81	
High blood pressure	108.2	119.4	0.91	123.4	115.5	1.07	
Hemorrhoids	43.6			38.2			
Chronic bronchitis	46.2			52.0			
Asthma	44.0			36.7			
Hav fever	88.6			101.3			
Chronic sinusitis	114.2			195.6			
	117,6			100.0			

NOTE: CMSA is consolidated metropolitan statistical area; PMSA is primary metropolitan statistical area; and MSA is metropolitan statistical area.

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Table 30. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and South Region large consolidated metropolitan statistical areas and metropolitan statistical areas: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			South Region		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			26.5		
18–44 years,	44.4			45.4		
45–64 years	18.9			18.1		
65–74 years	6.9			6.4		
75 years and over	4.2			3.7		
Health characteristics			Ra	te		
Parcent limited in activity	10 /	12.5	0.02	10.0	10.1	0.02
Percent with fair or poor respondent-assessed health	97	10.0	0.92	0.0	0.4	0.93
Disability days:	8.7	9.0	0.69	0.0	9.4	0.94
Restricted-activity days per 100 persons	1,389.8			1,421.6		
Bed-disability days per 100 persons	603.3			601.3		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1		~~~	568.1		
School-loss days per 100 children 5–17 years of age	530.2			478.2		
Percent with a physician contact in the past year	76 7			76.3		
Physician contacts per person	55			54		
Hospitalization:	0.0			0.4		
Percent with hospital episode in the past year	7.5	8.1	0.93	7.9	8.0	0.99
Hospital days per person with a hospital episode	8.0			7.5		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			168.6		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	106.6	121.8	0.88
Deafness and other hearing impairments	71.0	87.4	0.81	64.1	83.8	0.76
Deformities or orthopedic impairments	121.6	133.9	0.91	100.2	132.3	0.76
Heart disease	71.6	80.0	0.90	77.9	76.6	1.02
High blood pressure	108.2	119.4	0.91	116.2	114.3	1.02
Hemorrholds	43.6			44.5		
Chronic bronchitis	46.2			43.8		
Asthma	44.0			53.2		
Hay fever	88.6			97.9		
Chronic sinusitis	114.2			138.8		

Table 31. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitian statistical areas and Atlanta metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Atlanta MSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			25.8		
18–44 vears	44.4			49.3		
45–64 years	18.9			15.3		
65–74 years	6.9			6.9		
75 years and over	4.2			2.7		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	9.3	12.5	0.74
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	8.3	8.9	0.93
Restricted-activity days per 100 persons	1,389.8			1,048.9		
Bed-disability days per 100 persons	603.3			538.7		
18-64 years of age	537.1			552.9		
School-loss days per 100 children 5-17 years of age.	530.2			535.9		
Physician contacts:				00010		
Percent with a physician contact in the past year	76.7			76.6		
Physician contacts per person	5.5			4.6		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	6.9	7.9	0.87
Hospital days per person with a hospital episode	8.0			6.1		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			160.7		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	66.7	113.1	0.59
Deafness and other hearing impairments	71.0	87.4	0.81	35.6	79.4	0.45
Deformities or orthopedic impairments	121.6	133.9	0.91	34.6	131.6	0.26
Heart disease	71.6	80.0	0.90	76.5	72.5	1.06
High blood pressure	108.2	119.4	0.91	73.4	107.8	0.68
Hemorrhoids	43.6			*22.9		
Chronic bronchitis	46.2			38.4		
Asthma	44.0			30.0		
Hay fever	88.6			51.1		
Chronic sinusitis	114.2			87.1		

Table 32. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Baltimore metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Baltimore MSA		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			22.1		
18–44 years	44.4			44.1		
45–64 vears	18.9			20.1		
65-74 years,	6.9			8.8		
75 years and over	4.2			4.9		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	15.7	14.5	1.08
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	9.1	10.6	0.86
Restricted-activity days per 100 persons	1,389.8			1,635.2		
Bed-disability days per 100 persons	603.3			601.1		
18–64 years of age	537.1			766.9		
School-loss days per 100 children 517 years of age	530.2			*535.2		
Private contacts:	76 7			70.0		
Physician contacts per person	5.5			5.9		
Hospitalization:	0.0			0.0		
Percent with hospital episode in the past year	7.5	8.1	0.93	9.2	8.5	1.08
Hospital days per person with a hospital episode	8.0			8.2		
Conditions:						
Incidence of acute conditions per 100 persons per						
yearPrevalence of selected chronic conditions per 1,000 persons per vear	171.7			119.6		
Arthritis	113.1	128.3	0.88	122.2	143.7	0.85
Deafness and other hearing impairments	71.0	87.4	0.81	76.7	95.9	0.80
Deformities or orthopedic impairments	121.6	133.9	0.91	117.1	139.5	0.84
Heart disease	71.6	80.0	0.90	67.5	88.0	0.77
High blood pressure	108.2	119.4	0.91	146.1	132.1	1.11
Hemorrhoids.	43.6			49.6		
Chronic bronchitis	46.2			40.9		
Asthma	44.0			47.3		
Hay fever	88.6		_ ~ _	73.5		
Chronic sinusitis	114.2			91.4		

Table 33. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Dallas–Fort Worth consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Dallas-Fort Worth CMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			29.5		
18–44 years	44.4		-	46.6		
4564 years	18.9			17.5		
65–74 years	6.9			4.2		
75 years and over	4.2			2.2		
Health characteristics			Rat	te		
Percent limited in activity	12.4	13.5	0.92	11 7	11.8	0.99
Percent with fair or poor respondent-assessed health	87	9.8	0.89	9.2	8.4	1.10
Disability days:	0.7	0.0	0.00	0	0.1	
Restricted-activity days per 100 persons	1,389.8			1,413.8		
Bed-disability days per 100 persons	603.3			597.6		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			548.0		
School-loss days per 100 children 5-17 years of age	530.2			456.0		
Physician contacts:						
Percent with a physician contact in the past year	76.7			74.9		
Physician contacts per person	5.5			5.5		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	8.3	7.5	1.11
Hospital days per person with a hospital episode	8.0			6.8		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			167.1		
Prevalence of selected chronic conditions per 1,000						
persons per year:						
Arthritis	113.1	128.3	0.88	85.6	102.9	0.83
Deafness and other hearing impairments	71.0	87.4	0.81	79.4	72.8	1.09
Detormities or orthopedic impairments	121.6	133.9	0.91	114.7	126.7	0.91
	71.6	80.0	0.90	99.3	66.1	1.50
High blood pressure	108.2	119.4	0.91	111.6	99.5	1.12
Hemorrhoids.	43.6			70.4		
Chronic bronchitis	46.2			48.7		
Asthma	44.0			82.5		
Hay fever	88.6			153.7		
Chronic sinusitis	114.2			191.9		

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Table 34. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Dallas primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Dallas PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			30.7		
18–44 years	44.4			49.1		
45–64 years	18.9			15.0		
65–74 years	6.9			3.2		
75 years and over	4.2			2.0		
Health characteristics			Rat	te		
Percent limited in activity	12.4	13.5	0.92	9.9	11.1	0.89
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	8.1	7.8	1.04
Restricted-activity days per 100 persons	1,389.8			1,473.5		
Bed-disability days per 100 persons	603.3			667.8		
Work-loss days per 100 currently employed persons						
	537.1			490.3		
School-loss days per 100 children 5–17 years of age Physician contacts:	530.2			562.6		
Percent with a physician contact in the past year	76 7			76 7		
Physician contacts per person	55			56		
Hospitalization:	0.0			5.0		
Percent with hospital episode in the past year	7.5	8.1	0.93	8.4	7.3	1.15
Hospital days per person with a hospital episode	8.0			6.5		
Conditions:						
Incidence of acute conditions per 100 persons per						
year Prevalence of selected chronic conditions per 1,000 persons per vear:	171.7			170.4		
Arthritis	113.1	128.3	0.88	53.2	91.8	0.58
Deafness and other hearing impairments	71.0	87.4	0.81	62.4	67.5	0.92
Deformities or orthopedic impairments	121.6	133.9	0.91	109.8	124.1	0.88
Heart disease	71.6	80.0	0.90	105.8	60.9	1.74
High blood pressure	108.2	119.4	0.91	111.2	90.3	1 23
Hemorrholds.	43.6			73.3		
Chronic bronchitis	46.2			36.8		
Asthma	44.0			81.0		
Hav fever	99.6			150.3		
Chronic sinusitis	114.2			202.4		
	117.6			202.4		

Table 35. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Fort Worth-Arlington primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Fort Worth-Arlington PMSA		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			27.5		
18–44 years	44.4			42.8		
45–64 vears	18.9			21.3		
65–74 vears	6.9			5.6		
75 years and over	4.2			2.7		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	14.4	12.9	1.12
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	10.9	9.3	1.17
Restricted-activity days per 100 persons	1,389.8			1,322.5		
Bed-disability days per 100 persons	603.3			490.2		
18-64 years of age	537.1			640.6		
School-loss days per 100 children 5-17 years of age.	530.2			*288.1		
Physician contacts:			•			
Percent with a physician contact in the past year	76.7			72.3		
Physician contacts per person	5.5			5.3		
Percent with hospital episode in the past year	7.5	8.1	0.93	8.2	7.8	1.05
Hospital days per person with a hospital episode	8.0			7.4		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			162.1		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	135.0	120.2	1.12
Deafness and other hearing impairments	71.0	87.4	0.81	105.5	81.3	1.30
Deformities or orthopedic impairments	121.6	133.9	0.91	122.2	130.8	0.93
Heart disease	71.6	80.0	0.90	89.8	74.5	1.21
High blood pressure	108.2	119.4	0.91	112.2	113.9	0.99
Hemorrholds	43.6			65.8		
Chronic bronchitis	46.2			67.0		
Asthma	44.0			84.8		
Hay fever	88.6			158.5		
Chronic sinusitis	114.2			176.3		

Table 36. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Houston-Galveston-Brazoria consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Houston–Galveston–Brazoria CMSA		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			31.5		
18–44 years	44.4			47.9		
4564 years	18.9			15.7		
65-74 years	6.9			3.1		
75 years and over	4.2			1.7		
Health characteristics			Ra	te		
Percept limited in activity	12.4	13.5	0.92	9.2	11.1	0.83
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	8.0	7.8	1.03
Restricted-activity days per 100 persons	1,389.8			1,377.4		
Bed-disability days per 100 persons Work-loss days per 100 currently employed persons	603.3			610.7		
18–64 years of age	537.1			571.8		-
School-loss days per 100 children 5–17 years of age	530.2			439.7		
Physician contacts:	76 7			79.9		
Percent with a physician contact in the past year	76.7			73.2		
Hospitalization:	5.5	5		4.0		
Percent with hospital episode in the past year	7.5	8.1	0.93	8.0	7.2	1.11
Hospital days per person with a hospital episode	8.0			7.6		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7		~	174.4		
Arthritis	113.1	128.3	0.88	73.6	91.1	0.81
Dealness and other bearing impairments	71.0	87.4	0.81	54.1	66.6	0.81
Deformities or orthonedic impairments	121.6	133.9	0.91	85.5	122.9	0.70
Heart disease	71.6	80.0	0.90	62.2	60.2	1.03
High blood pressure	108.2	119.4	0.91	105.0	89.8	1.17
Hemorrhoids	43.6			35.2		
Chronic bronchitis	46.2			46.8		
Asthma	44.0			53.8		
Hav fever.	88.6			96.9		
Chronic sinusitis	114.2			175.1		

Table 37. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Houston primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Houston PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Linder 18 years	25.6			32.1		
18-44 years	20.0 44 4			48 1		
15-61 years	189			15 3		
65-74 years	69			29		
75 years and over	4.2			1.6		
			D			
Health characteristics			Ha	te		
Percent limited in activity	12.4	13.5	0.92	8.8	10.9	0.81
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	7.4	7.6	0.97
Restricted-activity days per 100 persons	1,389.8			1,398.2		
Bed-disability days per 100 persons	603.3			623.3		
18–64 years of age	537.1			578.2		
School-loss days per 100 children 5–17 years of age Physician contacts:	530.2			456.5		
Percent with a physician contact in the past year	76.7			73.5		
Physician contacts per person	5.5			4.6		
Percent with hospital episode in the past year	7.5	8.1	0.93	8.0	7.2	1.11
Hospital days per person with a hospital episode Conditions:	8.0			7.0		
Incidence of acute conditions per 100 persons per						
year	171.7			173.2		
Arthritis	113.1	128.3	0.88	63.3	88.7	0.71
Deafness and other hearing impairments	71.0	87.4	0.81	51.1	65.4	0.78
Deformities or orthopedic impairments	121.6	133.9	0.91	80.0	122.1	0.66
Heart disease	71.6	80.0	0.90	54.2	59 1	0.92
High blood pressure	108.2	119.4	0.00	100 7	87.8	1 15
Hemorrhoids	43.6			31.5		
Chronic bronchitis	46.2			40.9		
Asthma	44.0			49.9		
Hav fever.	88.6			100.7		
Chronic sinusitis	114.2			171.1		

Table 38. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Miami-Fort Lauderdale consolidated metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Miami-Fort Lauderdale CMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			23.3		
18-44 years	44.4			41.3		~
4564 years,	18.9			19.2		
6574 years	6.9			8.4		
75 years and over	4.2			7.8		
Health characteristics			Rat	te		
Percent limited in activity	12.4	13.5	0.92	14.1	15.2	0.93
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	9.5	11.2	0.85
Restricted-activity days per 100 persons	1,389.8			1,754.8		-
Bed-disability days per 100 persons	603.3			629.5		~~-
18-64 years of age	537.1			493.7		
School-loss days per 100 children 5-17 years of age.	530.2			501.6		
Physician contacts:						
Percent with a physician contact in the past year	76.7			73.6	_~~	
Physician contacts per person	5.5		~ --	4.5		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	8.4	8.7	0.97
Hospital days per person with a hospital episode	8.0			7.6		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			126.8		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	118.9	153.5	0.77
Deafness and other hearing impairments	71.0	87.4	0.81	55.2	103.0	0.54
Deformities or orthopedic impairments	121.6	133.9	0.91	71.5	139.8	0.51
Heart disease	71.6	80.0	0.90	101.0	94.4	1.07
High blood pressure	108.2	119.4	0.91	87.0	137.3	0.63
Hemorrhoids	43.6			*16.9		
Chronic bronchitis	46.2			30.9		
Asthma	44.0			*12.0		
Hay fever	88.6			29.9		
Chronic sinusitis	114.2			35.1		

NOTE: CMSA is consolidated metropolitan statistical area; PMSA is primary metropolitan statistical area; and MSA is metropolitan statistical area.

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Table 39. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Fort Lauderdale-Hollywood-Pompano Beach primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Fort Lauderdale–Hollywood–Pompano Beach PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			22.9		
18–44 years	44.4			42.4		
45–64 vears	18.9			16.8		
65–74 vears	6.9			9.3		
75 years and over	4.2			8.6		
- Health characteristics			Ra	te		
Percent limited in activity	19.4	13.5	0.92	14.9	15.4	0.97
Percent with fair or peer respondent-assessed health	87	9.8	0.52	89	11.3	0.21
Disability days:	0.7	5.0	0.00	0.0	11.0	0.70
Bestricted-activity days per 100 persons	1.389.8			1.995.8		
Bed-disability days per 100 persons	603.3			740.9		
Work-loss days per 100 currently employed persons						
18-64 years of age	537.1			621.9		
School-loss days per 100 children 5-17 years of age.	530.2			*503.3		
Physician contacts:						
Percent with a physician contact in the past year	76.7			76.1		
Physician contacts per person	5.5			5.8		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	8.3	8.9	0.93
Hospital days per person with a hospital episode	8.0			8.7		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			144.6		
Prevalence of selected chronic conditions per 1,000						
persons per year:						
Arthritis	113.1	128.3	0.88	105.3	155.9	0.68
Deafness and other hearing impairments	71.0	87.4	0.81	75.6	105.5	0.72
Deformities or orthopedic impairments	121.6	133.9	0.91	70.2	140.4	0.50
Heart disease	71.6	80.0	0.90	163.4	96.6	1.69
High blood pressure	108.2	119.4	0.91	115.3	138.3	0.83
Hemorrhoids	43.6			*22.1		
Chronic bronchitis	46.2			*32.1		
Asthma	44.0			*20.6		
Hay fever	88.6			*34.4		
Chronic sinusitis	114.2			62.6		

Table 40. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Miami-Hialeah primary metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Miami–Hialeah PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			23.5		
18–44 years	44.4			40.5		
45–64 years	18.9			21.0		
65–74 years	6.9			7.7		
75 years and over	4.2			7.3		
Health characteristics			Rat	te		
Percent limited in activity	12.4	13.5	0.92	13.5	15.1	0.89
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	9.9	11.1	0.89
Restricted-activity days per 100 persons	1,389.8			1,576.3		
Bed-disability days per 100 persons	603.3			547.0		
18–64 years of age	537.1			398.2		
School-loss days per 100 children 5–17 years of age Physician contacts:	530.2			*500.7		
Percent with a physician contact in the past year	76.7			71.7		
Physician contacts per person	5.5			3.6		
Percent with hospital episode in the past year	7.5	8.1	0.93	8.5	8.6	0.99
Hospital days per person with a hospital episode	8.0			6.7		
Conditions:						
vear	171.7			113.6		·
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	128.9	152.2	0.85
Deafness and other hearing impairments	71.0	87.4	0.81	40.1	101.5	0.40
Deformities or orthopedic impairments	121.6	133.9	0.91	72.4	139.5	0.52
Heart disease	71.6	80.0	0.90	54.8	92.9	0.59
High blood pressure	108.2	119.4	0.91	66.7	136.8	0.49
Hemorrhoids.	43.6			*12.4		
Chronic bronchitis	46.2			*30.0		
Asihma	44.0			*5.7		
Hay fever.	88.6			*26.0		
Chronic sinusitis	114.2			*15.3		

NOTE: CMSA is consolidated metropolitan statistical area; PMSA is primary metropolitan statistical area; and MSA is metropolitan statistical area.

Table 41. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and New Orleans metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			New Orleans MSA			
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio	
······································	Percent distribution						
Total	100.0			100.0			
Age							
Linder 18 years	25.6			26.4			
18-44 vagre	44.4			41.3			
45. 64 years	18.9			187			
65.74 years	69			97			
75 years and over	4.2			3.8			
	4.2		_	0.0			
Health characteristics			Ra	te			
Percent limited in activity	12.4	13.5	0.92	16.2	14.0	1.16	
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	10.5	10.2	1.03	
Disability days:							
Restricted-activity days per 100 persons	1,389.8			1,999.9			
Bed-disability days per 100 persons	603.3			710.5			
Work-loss days per 100 currently employed persons							
1864 years of age	537.1			674.5			
School-loss days per 100 children 5-17 years of age	530.2			*309.1			
Physician contacts:							
Percent with a physician contact in the past year	76.7			72.6			
Physician contacts per person	5.5			6.3			
Hospitalization:							
Percent with hospital episode in the past year	7.5	8.1	0.93	9.5	8.2	1.16	
Hospital days per person with a hospital episode	8.0			9.0			
Conditions:							
Incidence of acute conditions per 100 persons per							
year	171.7			182.7			
Prevalence of selected chronic conditions per 1,000							
Arthritis	113.1	128.3	0.88	163.0	136.7	1.19	
Deafness and other hearing impairments	71.0	87.4	0.81	60.8	91.5	0.66	
Deformities or orthonedic impairments	121.6	133.9	0.91	140.4	133.4	1.05	
	71.6	80.0	0.90	*21.1	84.9	*0.25	
High blood pressure	108.2	119.4	0.00	88.9	126.2	0.70	
Hemorrhoide	43.6			*39.0			
Chronic branchitis	46.2			*42.1			
	44 0			*51.5			
	99.6			01.0			
Παγιονογία	114.0			165 /			
	114.2			100.4			

Table 42. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Norfolk-Virginia Beach-Newport News metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Norfolk–Virginia Beach–Newport News MSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution	······································	
Total	100.0			100.0		
Age						
Under 18 vears	25.6			31.8	~~-	
18–44 vears	44.4			46.0		
4564 vears	18.9			15.3		
65–74 vears	6.9			4.2		
75 years and over	4.2			2.7		
Health characteristics			Ra	te		
Percent limited in activity.	12.4	13.5	0.92	10.0	11.6	0.86
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	8.7	8.2	1.06
Disability days:	0.1	0.0	0.00	0.1	0.2	1.00
Restricted-activity days per 100 persons	1.389.8			1.179.4		
Bed-disability days per 100 persons	603.3			492.9		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			774.7		
School-loss days per 100 children 5-17 years of age	530.2			*293.7		
Physician contacts:						
Percent with a physician contact in the past year	76.7			79.4		
Physician contacts per person	5.5			4.9		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	8.5	7.4	1.15
Hospital days per person with a hospital episode	8.0			6.5		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			226.5		
Prevalence of selected chronic conditions per 1,000						
persons per year:						
Arthritis	113.1	128.3	0.88	144.5	99.3	1.46
Deafness and other hearing impairments	71.0	87.4	0.81	52.2	71.7	0.73
Deformities or orthopedic impairments	121.6	133.9	0.91	83.4	123.7	0.67
Heart disease	71.6	80.0	0.90	*35.3	65.2	*0.54
High blood pressure	108.2	119.4	0.91	130.9	95.5	1.37
Hemorrhoids	43.6			*27.8		
Chronic bronchitis	46.2			*38.0		
Asthma	44.0			*33.9		
Hay fever,	88.6			112.6		
Chronic sinusitis	114.2	~		256.4		

Table 43. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and San Antonio metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			San Antonio MSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
· · · · · · · · · · · · · · · · · · ·			Percent di	stribution		······································
Total	100.0			100.0		
Age						
Under 18 years	25.6			27.0		
18–44 years	44.4			39.9		
45–64 years	18.9			19.6		
65–74 years	6.9			9.1		
75 years and over	4.2			4.5		
- Health characteristics			Ra	te		
	10.4	10 -		40.0		
	12.4	13.5	0.92	12.9	14.2	0.91
Disability days:	8.7	9.8	0.89	10.5	10.4	1.01
Restricted-activity days per 100 persons	1,389.8			1,215.8		
Bed-disability days per 100 persons	603.3			568.6		
18-64 years of age	537.1			*291.8		
School-loss days per 100 children 5-17 years of age	530.2			*532.5		
Physician contacts:						
Percent with a physician contact in the past year	76.7		·	76.5		
Physician contacts per person	5.5			5.5		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.4	8.2	0.90
Hospital days per person with a hospital episode	8.0			8.3		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			183.0		
Prevalence of selected chronic conditions per 1,000						
persons per year:						
Arthritis	113.1	128.3	0.88	81.4	139.5	0.58
Deafness and other hearing impairments	71.0	87.4	0.81	74.4	93.2	0.80
Deformities or orthopedic impairments	121.6	133.9	0.91	84.9	133.5	0.64
Heart disease	71.6	80.0	0.90	82.3	86.3	0.95
High blood pressure	108.2	119.4	0.91	162.0	127.9	1.27
Hemorrhoids	43.6			*34.2		
Chronic bronchitis	46.2		·	78.8		
Asthma	44.0			109.5		
Hay fever	88.6			153.2		
Chronic sinusitis	114.2			120.8		

NOTE: CMSA is consolidated metropolitan statistical area; PMSA is primary metropolitan statistical area; and MSA is metropolitan statistical area.

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Table 44. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Tampa-St. Petersburg-Clearwater metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Tampa-St. Petersburg-Clearwater MSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution	······································	
Total	100.0			100.0		
Age						
Under 18 vears.	25.6			22.2		
18-44 years	44.4			43.2		
45–64 years	18.9			17.6		~
65–74 years	6.9			11.1		
75 years and over	4.2			5.9		
Health characteristics			Rat	te		
Percent limited in activity	124	13.5	0.02	17 3	15 1	1 15
Percent with fair or poor respondent-assessed health	87	0.9	0.92	07	10.1	1.15
Disability days:	6.7	5.6	0.05	5.7	11.1	0.67
Restricted-activity days per 100 persons	1,389.8			1,770.3		
Bed-disability days per 100 persons	603.3			832.8		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			656.4		
School-loss days per 100 children 5-17 years of age	530.2			*477.9		
Physician contacts:						
Percent with a physician contact in the past year	76.7			79.4		
Physician contacts per person	5.5			6.4		
Percent with hospital episode in the past year	7.5	8.1	0.93	8.0	8.7	0.92
Hospital days per person with a hospital episode	8.0			8.0		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			189.3		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	192.1	152.1	1.26
Deafness and other hearing impairments	71.0	87.4	0.81	98.1	101.6	0.97
Deformities or orthopedic impairments	121.6	133.9	0.91	179.5	140.1	1.28
Heart disease	71.6	80.0	0.90	138.1	93.9	1.47
High blood pressure	108.2	119.4	0.91	146.5	137.7	1.06
Hemorrhoids	43.6			69.3		
Chronic bronchitis	46.2			42.3		
Asthma	44.0			43.7		
Hay fever	88.6			68.8		
Chronic sinusitis	114.2			192.6		

Table 45. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Washington, D.C., metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic Observed Expacted Morbidity ratio Deserved Expacted Morbidity ratio Total 100.0 100.0 Age 100.0 100.0 Age 25.6 24.3 45-44 years 6.9 46.6 42.5 45-54 years 6.9 2.8 75 years and over 4.2 2.8 9 verset with fair or poor responderit-assessed health 5.7 9.8 0.99 12.9 0.84 Percent with fair or poor responderit-assessed health 5.7 9.8 0.99 7.0 9.3 0.78 Disability days per 100 persons 637.1 471.7 Restrict-activity days per 100 persons 637.1 476.7 171.7 <th></th> <th colspan="3">All large CMSA's and MSA's</th> <th colspan="3">Washington, D.C., MSA</th>		All large CMSA's and MSA's			Washington, D.C., MSA		
Percent distribution Total 100.0 100.0 Age 100.0 100.0 10-44 years 24.3 24.3 16-44 years 24.5 49.9 24.5 24.5 2.8 2.8 75 years and over 4.2 2.8 2.8 10.9 12.9 0.84 Percent linited in activity. 12.4 13.5 0.92 10.9 12.9 0.84 Percent linited in activity. 12.4 13.5 0.92 10.9 12.9 0.84 Percent linited in activity. 12.4 13.5 0.82 1.7 9.3 0.75 Disability days per 100 persons 1389	Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
Total				Percent di	stribution		
Age Under 18 years. 25.6 24.3 18-44 years. 18.9 21.5 45-64 years. 18.9 21.5 65-7 years and over. 4.2 2.8 75 years and over. 4.2 2.8 Heath characteristics Percent with fair or poor respondent-assessed health. 8.7 9.8 0.89 7.0 9.3 0.75 Diability days: Percent with fair or poor respondent-assessed health. 8.7 9.8 0.89 7.0 9.3 0.75 Diability days: 1115.9 Bed-clashify days per 100 persons 603.3 496.5 Percent with fair a physician contact in the past year 537.1 570.4 Percent with ha physician contact in the pa	Total	100.0			100.0		
Under 18 years 25.6 24.3 18-44 years 44.4 46.6 18-44 years 6.9 21.5 65-74 years 6.9 2.8 16-44 years 4.2 2.8 175 years and over 4.2 2.8 Retreat limited in activity 12.4 13.5 0.92 10.9 12.9 0.84 Percent With fair or poor respondent-assessed health 5.7 9.6 0.69 7.0 9.3 0.75 Diability days per 100 persons 13.89.8 11.115.9 496.5 24.9 24.9 24.9 24.9 24.9 <	Age						
18-44 years. 44.4 46.6 45-64 years. 6.9 21.5 75 years and over 6.9 2.9 Health characteristics Rate Percent limited in activity. 12.4 13.5 0.92 10.9 12.9 0.64 Percent limited in activity days per 100 persons. 1.389.8 496.5 Bed clashility days: 000 persons. 603.3 496.5 Bed clashility days per 100 persons. 537.1 496.5 Prosent with a physician contacts in the past year 76.7 471.7 Physician contacts per person 537.1 6.8 Prosent with a physician contacts in the past year 76.7 76.7 Percent with a physician contacts in the past year 7.5 8.1 0.93 6.5	Under 18 years	25.6	·		24.3		
45-64 years. 18.9 21.5 65-74 years. 6.9 4.9 65-74 years. 6.9 2.8 Rate Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 7.0 9.3 0.75 Disability days per 100 persons. 1.24 13.5 0.92 10.9 12.9 0.84 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 7.0 9.3 0.75 Disability days per 100 persons. 1.389.8 1,115.9 Bed disability days per 100 persons 603.3 496.5 School-loss days per 100 children 5-17 years of age. 530.2 76.7 Physician contacts Percent with a physician contacts 8.0 Prevalue with a physician contacts Rest with a physician contacts	18–44 years	44.4			46.6		
65-74 years 6.9 4.9 76 years and over 4.2 2.8 Rate Percent limited in activity 12.4 13.5 0.92 10.9 12.9 0.84 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 7.0 9.3 0.75 Disability days Porticita-activity days per 100 persons 1,389.8 496.5 Bed-disability days per 100 persons 603.3 496.5 Work-loss days per 100 children 5-17 years of age 530.2 770.4 Precent with a physician contacts 55 6.8 Physician contacts: 78.7 12.9 0.82 Precent with a physician contact in the past year 7.5 8.1 0.93 6.5 7.9 0.82 Hospital days per porson with a hospital episode in th	45–64 years	18.9			21.5		
75 years and over 4.2 2.8 Rate Percent with fail or poor respondent-assessed health 8.7 9.8 0.89 7.0 9.3 0.75 Disability days per 100 persons 1.389.8 1115.9 Bed-disability days per 100 persons 603.3 496.5 Work-loss days per 100 currently employed persons 537.1 471.7 School-loss days per 100 currently employed persons 537.1 471.7 Procent with the physician contact in the past year 76.7 6.8 Physician contacts per person 5.5 6.8 Percent with hospital episode in the past year 75.5 8.1 0.93 6.5 7.9 0.82 Hospital/days per person with a hospital episode 8.0 8.3 Prevaret with h	6574 years	6.9			4.9		
Health characteristics Rate Percent limited in activity 12.4 13.5 0.92 10.9 12.9 0.84 Percent with fair or poor respondent-assessed health 8.7 9.8 0.69 7.0 9.3 0.75 Disability days per 100 persons 13.89.8 1115.9 Bed-disability days per 100 persons 603.3 496.5 Work-loss days per 100 currently employed persons 537.1 471.7 School-loss days per 100 currently employed persons 55.2 570.4 Percent with a physician contact in the past year 76.7 78.7 Percent with a physician contact in the past year 75.5 8.1 0.93 6.5 7.9 0.82 Hospital days per person with a hospital episode in the past year 7.5 8.1 0.93 6.5 7.9 0.82 Percent with hospital episode in the past year 7.5 8.1 0.93	75 years and over	4.2			2.8		
Percent limited in activity. 12.4 13.5 0.92 10.9 12.9 0.84 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 7.0 9.3 0.75 Disability days Restricted-activity days per 100 persons 603.3 1,115.9 Bed-disability days per 100 currenty employed persons 603.3 496.5 Work-loss days per 100 currenty employed persons 537.1 471.7 School-loss days per 100 currenty employed persons 530.2 471.7 Physician contacts: 55. 6.8 Physician contacts: 6.8 Physician contacts: Physician contacts: 6.8 Physician contacts:	Health characteristics			Ra	te		
Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 7.0 9.3 0.75 Disability days is Restricted-activity days per 100 persons	Percent limited in activity	12.4	13.5	0.92	10.9	12 9	0.84
Disability days: Init Ini	Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	70	9.3	0.24
Restricted-activity days per 100 persons 1,389.8 1,115.9 Bed-disability days per 100 currently employed persons 603.3 496.5 Work-loss days per 100 currently employed persons 537.1 471.7 School-loss days per 100 children 5-17 years of age. 530.2 76.7 Physician contacts: Percent with a physician contact in the past year 76.7 6.8 Physician contacts: Percent with hospital episode in the past year 7.5 8.1 0.93 6.5 7.9 0.82 Hospital/atlow: 110:17 8.3 Percent with hospital episode in the past year 7.5 8.1 0.93 6.5 7.9 0.82 Hospital/days per person with a hospital episode 8.0 8.3 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 100.5 120.0	Disability days:		0.0	0.00	1.0	0.0	0.70
Bed-disability days per 100 persons 603.3 496.5 Work-loss days per 100 currently employed persons 537.1 496.5 School-loss days per 100 children 5-17 years of age. 530.2 570.4 Physician contacts: 76.7 78.7 Hospitalization: 5.5 6.8 Hospital days per person with a hospital episode in the past year	Restricted-activity days per 100 persons	1,389.8			1,115.9		
Work-loss days per 100 currently employed persons 537.1 471.7 School-loss days per 100 children 5–17 years of age. 530.2 570.4 Physician contacts: 570.4 Physician contacts per person 5.5 6.8 Physician contacts per person with a physical episode in the past year 7.5 8.1 0.93 6.5 7.9 0.82 Hospital days per person with a hospital episode 8.0 8.3 Conditions: Incidence of acute conditions per 100 persons per year: 171.7 188.7 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 100.5 120.0 0.84 Deafness and other hearing impairments 71.6 80.0 0.90 57.3 74.0 0.74 Deformities or othopedic inpairments 121.6 133.9 0.91 111.4 134.8 0.83 Heart disease	Bed-disability days per 100 persons	603.3			496.5		
18-64 years of age 537.1 471.7 School-loss days per 100 children 5–17 years of age. 530.2 570.4 Physician contacts: Percent with a physician contact in the past year	Work-loss days per 100 currently employed persons	000.0			100.0		
School-loss days per 100 children 5–17 years of age. 530.2 570.4 Physiclan contacts: Percent with a physiclan contact in the past year 5.5 78.7 Hospitalization: Percent with hospital episode in the past year 5.5 5.5 6.8 Hospital days per person with a hospital episode 8.0 8.0 8.3 Conditions: Incidence of acute conditions per 100 persons per year	18-64 years of age	537.1			471.7		
Physician contacts: Percent with a physician contact in the past year 76.7 78.7 Physician contacts per person	School-loss days per 100 children 5-17 years of age.	530.2			570.4		
Percent with a physician contact in the past year	Physician contacts:						
Physician contacts per person 5.5 6.8 Hospitalization: Percent with hospital episode in the past year 7.5 8.1 0.93 6.5 7.9 0.82 Hospital days per person with a hospital episode 8.0 8.3 Conditions: Incidence of acute conditions per 100 persons per year. 171.7 188.7 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 100.5 120.0 0.84 Deafness and other hearing impairments 113.1 128.3 0.88 100.5 120.0 0.84 Deformities or orthopedic impairments 121.6 133.9 0.91 111.4 134.8 0.83 Heart disease 71.6 80.0 0.90 57.3 74.0 0.77 High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 44.2 Asthma 46.2 </td <td>Percent with a physician contact in the past year</td> <td>76.7</td> <td></td> <td></td> <td>78.7</td> <td></td> <td></td>	Percent with a physician contact in the past year	76.7			78.7		
Hospitalization: Percent with hospital episode in the past year 7.5 8.1 0.93 6.5 7.9 0.82 Hospital days per person with a hospital episode 8.0 8.3 Conditions: incidence of acute conditions per 100 persons per year: 171.7 188.7 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 100.5 120.0 0.84 Deafness and other hearing impairments	Physician contacts per person	5.5			6.8		
Percent with hospital episode in the past year 7.5 8.1 0.93 6.5 7.9 0.82 Hospital days per person with a hospital episode 8.0 8.3 Conditions: Incidence of acute conditions per 100 persons per year. 171.7 188.7 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 100.5 120.0 0.84 Deafness and other hearing impairments	Hospitalization:						
Hospital days per person with a hospital episode 8.0 8.3 Conditions: Incldence of acute conditions per 100 persons per year	Percent with hospital episode in the past year	7.5	8.1	0.93	65	79	0.82
Conditions: Incidence of acute conditions per 100 persons per year. 171.7 188.7 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 100.5 120.0 0.84 Deafness and other hearing impairments 113.1 128.3 0.81 60.6 81.6 0.74 Deformities or orthopedic impairments 71.0 87.4 0.81 60.6 81.6 0.74 Deformities or orthopedic impairments 121.6 133.9 0.91 111.4 134.8 0.83 Heart disease 71.6 80.0 0.90 57.3 74.0 0.77 High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 55.3 Chronic bronchitis 44.0 66.9 Hay fever 88.6 130.3 Hay fever 88.6 130.3	Hospital days per person with a hospital episode	80			83		0.02
Incidence of acute conditions per 100 persons per year	Conditions:	0.0			0.0		
year. 171.7 188.7 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 100.5 120.0 0.84 Deafness and other hearing impairments 113.1 128.3 0.88 100.5 120.0 0.84 Deafness and other hearing impairments 71.0 87.4 0.81 60.6 81.6 0.74 Deformities or orthopedic impairments 121.6 133.9 0.91 111.4 134.8 0.83 Heart disease 71.6 80.0 0.90 57.3 74.0 0.77 High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 55.3 Chronic bronchitis 44.0 66.9 Hay fever 88.6 130.3 Hay fever 114.2 111.1	Incidence of acute conditions per 100 persons per						
Prevalence of selected chronic conditions per 1,000 persons per year: Arthritis Arthritis Deafness and other hearing impairments 71.0 87.4 0.81 60.6 81.6 0.74 Deformities or orthopedic impairments 71.6 80.0 0.90 57.3 74.0 0.82 113.1 121.6 133.9 0.91 111.4 134.8 0.83 Heart disease 71.6 80.0 0.90 57.3 74.0 0.77 High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 55.3 Asthma 44.0 66.9 Hay fever 88.6	year	171.7			188.7		
persons per year: Arthritis 113.1 128.3 0.88 100.5 120.0 0.84 Deafness and other hearing impairments 71.0 87.4 0.81 60.6 81.6 0.74 Deformities or orthopedic impairments 121.6 133.9 0.91 111.4 134.8 0.83 Heart disease 71.6 80.0 0.90 57.3 74.0 0.77 High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 55.3 Chronic bronchitis 44.0 44.2 Hay fever 88.6 130.3 Chronic sinusitis 114.2 111.1	Prevalence of selected chronic conditions per 1,000						
Arthritis 113.1 128.3 0.88 100.5 120.0 0.84 Deafness and other hearing impairments 71.0 87.4 0.81 60.6 81.6 0.74 Deformities or orthopedic impairments 121.6 133.9 0.91 111.4 134.8 0.83 Heart disease 71.6 80.0 0.90 57.3 74.0 0.77 High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 55.3 Chronic bronchitis 44.0 44.2 Hay fever 88.6 130.3 Hay fever 114.2 111.1	persons per year:						
Deafness and other hearing impairments 71.0 87.4 0.81 60.6 81.6 0.74 Deformities or orthopedic impairments 121.6 133.9 0.91 111.4 134.8 0.83 Heart disease 71.6 80.0 0.90 57.3 74.0 0.77 High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 55.3 Chronic bronchitis 46.2 44.2 Asthma 44.0 66.9 Hay fever 88.6 130.3 Chronic sinusitis 114.2 111.1	Arthritis	113.1	128.3	0.88	100.5	120.0	0.84
Deformities or orthopedic impairments 121.6 133.9 0.91 111.4 134.8 0.83 Heart disease 71.6 80.0 0.90 57.3 74.0 0.77 High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 55.3 Chronic bronchitis 46.2 44.2 Asthma 44.0 66.9 Hay fever 88.6 130.3 Chronic sinusitis 114.2 111.1	Deafness and other hearing impairments	71.0	87.4	0.81	60.6	81.6	0.74
Heart disease 71.6 80.0 0.90 57.3 74.0 0.77 High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 55.3 Chronic bronchitis 46.2 44.2 Asthma 44.0 66.9 Hay fever 88.6 130.3 Chronic sinusitis 114.2 111.1	Deformities or orthopedic impairments	121.6	133.9	0.91	111.4	134.8	0.83
High blood pressure 108.2 119.4 0.91 142.2 114.5 1.24 Hemorrhoids 43.6 55.3 Chronic bronchitis 46.2 44.2 Asthma 44.0 66.9 Hay fever 88.6 130.3 Chronic sinusitis 114.2 111.1	Heart disease	71.6	80.0	0.90	57.3	74.0	0.77
Hemorrhoids. 43.6 55.3 Chronic bronchitis 46.2 44.2 Asthma 44.0 66.9 Hay fever 88.6 130.3 Chronic sinusitis 114.2 111.1	High blood pressure	108.2	119.4	0.91	142.2	114.5	1.24
Chronic bronchitis 46.2 44.2 Asthma 44.0 66.9 Hay fever 88.6 130.3 Chronic sinusitis 114.2 111.1	Hemorrhoids.	43.6			55.3		
Asthma 44.0 66.9 Hay fever 88.6 130.3 Chronic sinusitis 114.2 111.1	Chronic bronchitis	46.2			44.2		
Hay fever	Asthma	44.0			66.9		
Chronic sinusitis	Hav fever	88.6			130.3		
	Chronic sinusitis	114.2			111.1		

 Table 46. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan

 statistical areas and West Region large consolidated metropolitan statistical areas and large metropolitan statistical areas:

 1988–89

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[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			West Region		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution	· · · · · · · · · · · · · · · · · · ·	
Total	100.0			100.0		
Age						
Under 18 years	25.6			26.0	~	
18–44 years	44.4			45.0		
45-64 years	18.9			18.5		
65–74 years	6.9		~	6.6		
75 years and over	4.2			4.0		
Health characteristics			Ra	te		
Percent limited in activity	124	13.5	0.92	12.5	13.3	0.94
Percent with fair or poor respondent-assessed health	87	9.8	0.89	82	9.6	0.85
Disability days:	0.7	0.0	0.00	0.2	5.0	0.00
Restricted-activity days per 100 persons	1,389.8			1.596.4		
Bed-disability days per 100 persons	603.3			682.3		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			570.4		
School-loss days per 100 children 5-17 years of age	530.2			680.4		
Physician contacts:						
Percent with a physician contact in the past year	76.7			76.2		
Physician contacts per person	5.5			5.9		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	6.7	8.0	0.84
Hospital days per person with a hospital episode	8.0			7.3		_
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			208.4		
Prevalence of selected chronic conditions per 1,000						
persons per year:						
	113.1	128.3	0.88	110.7	125.2	0.88
Deatness and other hearing impairments	71.0	87.4	0.81	84.4	85.7	0.98
Deformities or orthopedic impairments	121.6	133.9	0.91	148.1	133.3	1.11
Heart disease	71.6	80.0	0.90	65.5	78.3	0.84
High blood pressure	108.2	119.4	0.91	101.1	116.9	0.86
Hemorrholds.	43.6			51.8		
	46.2			47.1		
Asthma	44.0			43.2		
Hay fever	88.6			100.9		
Chronic sinusitis	114.2			96.4		

Table 47. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Denver-Boulder consolidated metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Denver–Boulder CMSA		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbldity ratio
			Percent di	stribution		
Total	100.0	~		100.0		
Age						
Under 18 years	25.6			25.6		
18-44 years	44.4			47.3		
45–64 years	18.9			17.4		
65–74 years	6.9			6.3		
75 years and over	4.2			3.5		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0 92	13.9	12 9	1.08
Percent with fair or noor respondent-assessed health	87	9.8	0.89	63	93	0.68
Disability days:	0.1	0.0	0.00	0.0	0.0	0.00
Restricted-activity days per 100 persons	1.389.8			1,454,2		
Bed-disability days per 100 persons	603.3			530.5		
Work-loss days per 100 currently employed persons						
18-64 years of age	537.1			413.0		
School-loss days per 100 children 5-17 years of age	530.2			654.1		
Physician contacts:						
Percent with a physician contact in the past year	76.7			78.6		
Physician contacts per person	5.5			6.3		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.2	8.0	0.90
Hospital days per person with a hospital episode	8.0			6.8		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			226.7		
Prevalence of selected chronic conditions per 1,000						
persons per year:		100.0		100.0		
	113.1	128.3	0.88	133.2	119.3	1.12
Dealness and other nearing impairments	71.0	87.4	0.81	107.4	82.7	0.83
	716	100.9	0.91	127.4	75.0	0.96
	100.0	80.0	0.90	49.9	75.3	0.66
	100.2	119.4	0.91	92.4	112.0	0.62
	43.6			37.2		~
	46.2			88.6		
	44.U			*34.5		
	55.0			200.1		
	114.2			140.1		

Table 48. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Los Angeles-Anaheim-Riverside consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Los Angeles-Anaheim-Riverside CMSA			
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio	
	Percent distribution						
Total	100.0			100.0		<u>-</u>	
Age							
Under 18 years	25.6			27.7			
18–44 years	44.4			44.8			
4564 years	18.9			17.9			
6574 years	6.9			6.0			
75 years and over	4.2			3.7			
Health characteristics			Rat	te			
Percent limited in activity	124	13.5	0 92	10.6	12.0	0.82	
Percent with fair or noor respondent-assessed health	87	9.8	0.92	10.0	12.9	0.02	
Disability days:	0.7	3.6	0.05	9.0	9.0	0.57	
Restricted-activity days per 100 persons	1,389.8			1,670.1			
Bed-disability days per 100 persons	603.3			741.6			
18-64 years of age	537.1			640.0			
School-loss days per 100 children 5–17 years of age Physician contacts	530.2			731.5		~	
Percent with a physician contact in the past year	76 7			74.6			
Physician contacts per person	55			54			
Hospitalization:	0.0			0.4			
Percent with hospital episode in the past year	7.5	8.1	0.93	6.6	7.9	0.84	
Hospital days per person with a hospital episode	8.0			7.1			
Conditions:							
Incidence of acute conditions per 100 persons per							
year	171.7			207.9			
Prevalence of selected chronic conditions per 1,000 persons per year:							
Arthritis	113.1	128.3	0.88	92.3	119.2	0.77	
Deafness and other hearing impairments	71.0	87.4	0.81	66.3	82.3	0.81	
Deformities or orthopedic impairments	121.6	133.9	0.91	132.5	130.7	1.01	
Heart disease	71.6	80.0	0.90	70.4	75.3	0.93	
High blood pressure	108.2	119.4	0.91	94.5	111.9	0.84	
Hemorrholds.	43.6			47.3			
Chronic bronchitis	46.2			37.1			
Asthma	44.0			37.2			
Hay fever	88.6			68.2			
Chronic sinusitis	114.2			79.8			

Table 49. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Anaheim–Santa Ana primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Anaheim-Santa Ana PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			26.8		
18–44 years	44.4	~		43.9		
45–64 years	18.9			20.8		
65-74 years	6.9			5.5		
75 years and over	4.2			2.9		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	10.0	12.9	0.78
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	6.2	9.3	0.67
Restricted-activity days per 100 persons	1,389.8			1,559.5		
Bed-disability days per 100 persons	603.3			640.1		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			512.0		
Physician contacts:	530.2			591.8		
Percent with a physician contact in the past year	76.7			73.6		
Physician contacts per person	5.5			6.5		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	5.7	7.8	0.73
Hospital days per person with a hospital episode	8.0			8.0		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			183.2		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113,1	128.3	0.88	97.4	120.0	0.81
Deafness and other hearing impairments	71.0	87.4	0.81	79.4	81.6	0.97
Deformities or orthopedic impairments	121,6	133.9	0.91	148.7	131.6	1.13
Heart disease	71.6	80.0	0.90	75.0	74,5	1.01
High blood pressure	108,2	119.4	0.91	91.7	113.7	0.81
Hemorrhoids.	43.6			70.2		
Chronic bronchitis	46.2			73.3		
Asthma	44.0			43.0		
Hay fever	88.6			82.9		
Chronic sinusitis	114.2			111.0		

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Table 50. Percent distribution of population by age and rate of selected health characteristics according to all large metropolitan statistical areas and Los Angeles-Long Beach primary metropolitan statistical area: United States, 1988-89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Los Angeles-Long Beach PMSA		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			27.2		
18-44 years	44.4			45.9		
45–64 years	18.9	~		17.5		
65–74 years	6.9			5.8		
75 years and over	4.2			3.6		
Health characteristics			Rat	te		
Percent limited in activity	12.4	13.5	0.92	9.7	12.8	0.76
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	10.0	9.2	1.09
Restricted-activity days per 100 persons	1,389.8			1,535.5		
Bed-disability days per 100 persons	603.3			750.3		
Work-loss days per 100 currently employed persons						
18-64 years of age	537.1			606.0		
School-loss days per 100 children 5-17 years of age	530.2			719.1		
Physician contacts:						
Percent with a physician contact in the past year	76.7			75.0		
Physician contacts per person	5.5			5.0		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	6.6	7.9	0.84
Hospital days per person with a hospital episode	8.0			7.3		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			198.4		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	84.7	117.2	0.72
Deafness and other hearing impairments	71.0	87.4	0.81	55.5	81.4	0.68
Deformities or orthopedic impairments	121.6	133.9	0.91	127.9	130.9	0.98
Heart disease	71.6	80.0	0.90	48.9	74.2	0.66
High blood pressure	108.2	119.4	0.91	90.6	110.4	0.82
Hemorrhoids.	43.6			42.2		
Chronic bronchitis	46.2			30.9		
Asthma	44.0			33.3		
Hay fever	88.6			57.2		
Chronic sinusitis	114.2			56.1	~	

Table 51. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Riverdale–San Bernardino primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Riverdale-San Bernardino PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
	<u></u>		Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			29.4		
18–44 years	44.4			43.3		
45–64 years	18.9			15.4		
65–74 years	6.9		~	7.1		
75 years and over	4.2			4.7		
Health characteristics			Ra	te		
Percent limited in activity	10.4	19 5	0.02	141	10.1	1 09
Percent with fair or pear respondent assessed health	07	10.0	0.92	14.1	13.1	0.07
Disability days:	0.7	9.0	0.89	0.2	9.4	0.07
Restricted-activity days per 100 persons	1,389.8			2.252.1		
Bed-disability days per 100 persons	603.3			844.7		
Work-loss days per 100 currently employed persons						
18-64 years of age	537.1			867.7		
School-loss days per 100 children 5-17 years of age.	530.2			766.1		
Physician contacts:						
Percent with a physician contact in the past year	76.7			73.0		
Physician contacts per person	5.5			5,5		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	7.1	8.0	0.89
Hospital days per person with a hospital episode	8.0			5.9		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			259.0		
Prevalence of selected chronic conditions per 1,000						
Arthritia	1101	100.0	0.00	101 7	101.0	1 00
	113.1	120.3	0.00	121.7	121.9	1.00
	71.0	87.4	0.81	89.0	85.0	1.05
	121.6	133.9	0.91	123.0	128.7	0.96
	71.6	80.0	0.90	141.2	78.1	1.81
High blood pressure	108.2	119.4	0.91	104.4	112.5	0.93
Hemorrhoids.	43.6			46.3		
	46.2			*28.1		
Asthma	44.0			35.9		
Hay tever	88.6			85.3		
Chronic sinusitis	114.2			93.1		

NOTE: CMSA is consolidated metropolitan statistical area; PMSA is primary metropolitan statistical area; and MSA is metropolitan statistical area.

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Table 52. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Phoenix metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic Observed Expected Morbidity ratio Deserved Expected Morbidity ratio Color Percent distribution Percent distribution 100.0		All large CMSA's and MSA's			Phoenix MSA		
Percent distribution Total 100.0 100.0 <	Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
Total 100.0 100.0 Age 25.8 H0-44 years 44.4 42.8 45-84 years 18.9 19.7 45-84 years 8.9 4.0 75 years and over 4.2 4.0 Porcent limited in activity. 12.4 13.5 0.92 8.7 10.0 0.87 Parsent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.7 10.0 0.87 Disability days 1399.8 1,630.3 Bed-disability days per 100 persons 633.3 798.1 Bed-disability days per 100 children 5-17 years of age. 530.2 *531.4 Pheroent with hospital episode in the past year 76.7 5.0				Percent di	stribution	·····	
Age Under 18 years	Total	100.0			100.0		~
Under 18 years 25.6 25.8 12-4 18-44 years 44.4 42.8 12-4 45-64 years 6.9 19.7 12-7 45-74 years 6.9 7.7 65-74 years 6.9 7.7 65-74 years 6.9 7.7 65-74 years 6.9 7.7 65-74 years 6.9 7.7 7.7 7.8 9.8 0.92 12.7 13.7 0.93 9.8 0.99 8.7 10.0 0.67 Disability days per 100 persons 603.3 7.98.1 7.8 9.8 0.89 8.7 10.0 0.87 Disability days per 100 children 5-17 years of age. 50.2 7.5 8.1 0.93 8.2 8.1 1.01	Age						
	Under 18 years	25.6			25.8		
45-64 years. 18.9 19.7 65-74 years and over 4.2 7.7 Fate Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.7 10.0 0.67 Disability days per 100 persons. 12.4 13.5 0.92 12.7 13.7 0.93 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.7 10.0 0.67 Disability days per 100 persons 603.3 798.1 18-64 years of age 78.1 18-64 years of age 78.1 18-64 years of age 78.1 School-loss days per 100 children 5-17 years of age 530.2 75.3 5.0 Physician contacts Physician contacts No No No	18–44 years	44.4			42.8		
65-74 years	45–64 years	18.9			19.7		
75 years and over 4.2 4.0 Health characteristics Rate Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.7 10.0 0.87 Disability days per 100 persons 1389.8 1,630.3 Bed-disability days per 100 persons 603.3 796.1 Bed-disability days per 100 currently employed persons 537.1 598.5 School-loss days per 100 currently employed persons 530.2 754.4 Physician contacts is Percent with the physician contact in the past year 76.7 5.0 Physician contacts per person with a hospital episode 8.0 8.5	65–74 years	6.9			7.7		
Health characteristics Fate Percent limited in activity	75 years and over	4.2			4.0		
Percent limited in activity. 12.4 13.5 0.92 12.7 13.7 0.93 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.7 10.0 0.87 Disability days Restricted-activity days per 100 persons 1,389.8 1,630.3 Bed-clisability days per 100 persons 603.3 798.1 Work-less days per 100 currently employed persons 537.1 798.5 School-loss days per 100 currently employed persons 537.1 *531.4 Physician contacts: 50.2 *531.4 Percent with a physician contacts in the past year 76.7 5.0 Hospitalization:	Health characteristics			Rat	e		
Percent with fair or poor respondent-assessed health 8.7 10.3 0.32 12.1 10.7 0.33 Percent with fair or poor respondent-assessed health 8.7 9.8 0.89 8.7 10.0 0.87 Disability days : Restricted-activity days per 100 persons	Percent limited in activity	124	13.5	0.92	127	137	0.93
Disability days: 0.1 0.0 0.1 100 0.01 Bisability days: 1,389.8 1,630.3 Bed-disability days per 100 persons 60.3 798.1 Bed-disability days per 100 currently employed persons 537.1 598.5 School-loss days per 100 children 5-17 years of age. 530.2 *531.4 Physician contacts: Percent with a physician contact in the past year 76.7 74.4 Physician contacts: Percent with a physicial person with a hospital episode in the past year 7.5 8.1 0.93 8.2 8.1 1.01 Hospital days per person with a hospital episode 8.0 8.5 Prevalence of selected chronic conditions per 1.000 persons per year. 171.7 181.3 1.17 Deformities or orthopedic impairments 171.0 87.4 0.81 104.3 89.1 1.17 Deafmess and other	Percent with fair or poor respondent-assessed health	87	9.8	0.80	87	10.0	0.55
Restricted-activity days per 100 persons 1,389.8 1,630.3 Bed-disability days per 100 persons 603.3 798.1 Work-loss days per 100 currently employed persons 537.1 598.5 School-loss days per 100 children 5-17 years of age. 530.2 *531.4 Physician contacts: Percent with a physician contact in the past year 76.7 74.4 Physician contacts per person 5.5 5.0 Hospitalization: Percent with hospital episode in the past year 7.5 8.1 0.93 8.2 8.1 1.01 Hospital days per person with a hospital episode 8.0 8.5 Conditions 113.1 128.3 0.88 97.7 132.2 0.74 Deferee of acute conditions per 1,000 persons per year: 113.1 128.3 0.88 97.7 132.2 0.74 Deformities or orthopedic impairments </td <td>Disability days:</td> <td>0.7</td> <td>5.0</td> <td>0.03</td> <td>0.7</td> <td>10.0</td> <td>0.07</td>	Disability days:	0.7	5.0	0.03	0.7	10.0	0.07
Bed-disability days per 100 persons 603.3 798.1 Work-loss days per 100 currently employed persons 537.1 598.5 School-loss days per 100 children 5-17 years of age. 530.2 *531.4 Physician contacts: 5.5 5.0 Hospitalization: 5.5 5.0 Hospital days per person with a hospital episode in the past year	Restricted-activity days per 100 persons	1.389.8			1.630.3		
Work-loss days per 100 currently employed persons 537.1 598.5 School-loss days per 100 children 5–17 years of age. 530.2 *531.4 Physician contacts: *531.4 Physician contacts per person 5.5 5.0 Physician contacts per person 5.5 5.0 Percent with hospital episode in the past year 7.5 8.1 0.93 8.2 8.1 1.01 Hospitalization: 8.0 8.5 Conditions: 8.0 8.5 Incldence of acute conditions per 100 persons per year: 171.7 181.3	Bed-disability days per 100 persons	603.3			798.1		
18-64 years of age 537.1 598.5 School-loss days per 100 children 5-17 years of age. 530.2 *531.4 Physician contacts: Percent with a physician contact in the past year	Work-loss days per 100 currently employed persons						
School-loss days per 100 children 5–17 years of age. 530.2 *531.4 Physician contacts: Percent with a physician contact in the past year 5.5 74.4 Hospitalization: 5.5 5.0 Hospital episode in the past year	18-64 years of age	537.1			598.5		
Physician contacts: Percent with a physician contact in the past year	School-loss days per 100 children 5-17 years of age	530.2			*531.4		~
Percent with a physician contact in the past year	Physician contacts:						
Physician contacts per person 5.5 5.0 Hospitalization: Percent with hospital episode in the past year 7.5 8.1 0.93 8.2 8.1 1.01 Hospital days per person with a hospital episode 8.0 8.5 Conditions: Incidence of acute conditions per 100 persons per year. 171.7 181.3 Prevalence of selected chronic conditions per 1,000 persons per year. 113.1 128.3 0.88 97.7 132.2 0.74 Deafness and other hearing impairments 171.6 80.0 0.90 70.0 81.9 0.85 Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 Hemorrholds 43.6 57.4 Chronic bronchitis 46.2 43.3 Asthma 44.0 50.4 Hay fever 88.6 107.3 <	Percent with a physician contact in the past year	76.7			74.4		
Hospitalization: 7.5 8.1 0.93 8.2 8.1 1.01 Hospital days per person with a hospital episode 8.0 8.5 Conditions: Incidence of acute conditions per 100 persons per year	Physician contacts per person	5.5			5.0		
Percent with hospital episode in the past year 7.5 8.1 0.93 8.2 8.1 1.01 Hospital days per person with a hospital episode	Hospitalization:						
Hospital days per person with a hospital episode 8.0 8.5 Conditions: Incidence of acute conditions per 100 persons per year. 171.7 181.3 Prevalence of selected chronic conditions per 1,000 persons per year: 171.7 181.3 Arthritis 113.1 128.3 0.88 97.7 132.2 0.74 Deafness and other hearing impairments 71.0 87.4 0.81 104.3 89.1 1.17 Deformities or orthopedic impairments 121.6 133.9 0.91 163.7 134.1 1.22 Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 43.6 43.3 Asthma 44.0 50.4 Hay fever 88.6 107.3 Chronic sinusiti	Percent with hospital episode in the past year	7.5	8.1	0.93	8.2	8.1	1.01
Conditions: Incidence of acute conditions per 100 persons per year. 171.7 181.3 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 97.7 132.2 0.74 Arthritis 113.1 128.3 0.88 97.7 132.2 0.74 Deafness and other hearing impairments 110.0 87.4 0.81 104.3 89.1 1.17 Deformities or orthopedic impairments 121.6 133.9 0.91 163.7 134.1 1.22 Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 43.6 57.4 Chronic bronchitis 46.2 43.3 Asthma 44.0 50.4 Hay fever 88.6 107.3 Chr	Hospital days per person with a hospital episode	8.0			8.5		
Incidence of acute conditions per 100 persons per year. 171.7 181.3 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 97.7 132.2 0.74 Arthritis 113.1 128.3 0.88 97.7 132.2 0.74 Deafness and other hearing impairments 110.0 87.4 0.81 104.3 89.1 1.17 Deformities or orthopedic impairments 121.6 133.9 0.91 163.7 134.1 1.22 Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 43.6 57.4 Chronic bronchitis 46.2 50.4 Asthma 88.6 50.4 Hay fever 88.6 107.3 Chronic sinusitis <	Conditions:						
year 171.7 181.3 Prevalence of selected chronic conditions per 1,000 persons per year: 113.1 128.3 0.88 97.7 132.2 0.74 Arthritis 113.1 128.3 0.88 97.7 132.2 0.74 Deafness and other hearing impairments 71.0 87.4 0.81 104.3 89.1 1.17 Deformities or orthopedic impairments 121.6 133.9 0.91 163.7 134.1 1.22 Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 46.2 57.4 Chronic bronchitis 44.0 50.4 Hay fever 88.6 107.3 Chronic sinusitis 114.2 140.6	Incidence of acute conditions per 100 persons per						
Prevalence of selected chronic conditions per 1,000 persons per year: Arthritis 113.1 128.3 0.88 97.7 132.2 0.74 Deafness and other hearing impairments 71.0 87.4 0.81 104.3 89.1 1.17 Deformities or orthopedic impairments 121.6 133.9 0.91 163.7 134.1 1.22 Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 43.6 57.4 Chronic bronchitis 44.0 50.4 Hay fever 88.6 107.3 Chronic sinusitis 114.2 107.3	year	171.7			181.3		
Arthritis 113.1 128.3 0.88 97.7 132.2 0.74 Deafness and other hearing impairments 71.0 87.4 0.81 104.3 89.1 1.17 Deformities or orthopedic impairments 121.6 133.9 0.91 163.7 134.1 1.22 Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 43.6 57.4 Chronic bronchitis 44.0 50.4 Hay fever 88.6 107.3 Hay fever 114.2 107.3	Prevalence of selected chronic conditions per 1,000 persons per year:						
Deafness and other hearing impairments 71.0 87.4 0.81 104.3 89.1 1.17 Deformities or orthopedic impairments 121.6 133.9 0.91 163.7 134.1 1.22 Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 43.6 57.4 Chronic bronchitis 44.0 50.4 Hay fever 88.6 107.3 Hay fever 114.2 140.6	Arthritis	113.1	128.3	0.88	97.7	132.2	0.74
Deformities or orthopedic impairments 121.6 133.9 0.91 163.7 134.1 1.22 Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 43.6 57.4 Chronic bronchitis 46.2 50.4 Asthma 88.6 107.3 Hay fever 114.2 140.6	Deafness and other hearing impairments	71.0	87.4	0.81	104.3	89.1	1.17
Heart disease 71.6 80.0 0.90 70.0 81.9 0.85 High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 43.6 57.4 Chronic bronchitis 46.2 43.3 Asthma 44.0 50.4 Hay fever 88.6 107.3 Chronic sinusitis 114.2 140.6	Deformities or orthopedic impairments	121.6	133.9	0.91	163.7	134.1	1.22
High blood pressure 108.2 119.4 0.91 119.9 122.7 0.98 Hemorrholds 43.6 57.4 Chronic bronchitis 46.2 43.3 Asthma 44.0 50.4 Hay fever 88.6 107.3 Chronic sinusitis 114.2 140.6	Heart disease	71.6	80.0	0.90	70.0	81.9	0.85
Hemorrholds. 43.6 57.4 Chronic bronchitis 46.2 43.3 Asthma 44.0 50.4 Hay fever 88.6 107.3 Chronic sinusitis 114.2 140.6	High blood pressure	108.2	119.4	0.91	119.9	122.7	0.98
Chronic bronchitis 46.2 43.3 Asthma 44.0 50.4 Hay fever 88.6 107.3 Chronic sinusitis 114.2 140.6	Hemorrholds.	43.6			57.4		
Asthma 44.0 50.4 Hay fever 88.6 107.3 Chronic sinusitis 114.2 140.6	Chronic bronchitis	46.2			43.3		
Hay fever	Asthma	44.0			50.4		
Chronic sinusitis	Hay fever	88.6			107.3		
	Chronic sinusitis	114.2			140.6		

Table 53. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Portland–Vancouver consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

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	All large CMSA's and MSA's			Portland–Vancouver CMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
		<u></u>	Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			23.3		
18–44 years	44.4			47.0		
45-64 years	18.9			18.0		
65–74 years	6.9			6.7		
75 years and over	4.2			4.9		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	16.4	13.6	1.21
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	8.6	9.9	0.87
Bestricted-activity days per 100 persons	1.389.8			1.441.4		
Bed-disability days per 100 persons Work loss days per 100 currently employed persons	603.3			576.6		
18–64 years of age	537.1			445.1		
School-loss days per 100 children 5–17 years of age Physician contacts:	530.2			*578.3		
Percent with a physician contact in the past year	76.7			74.1		
Physician contacts per person	5.5	640 898 yrs		6.6		
Percent with hospital episode in the past year	7.5	8.1	0.93	7.0	8.3	0.84
Hospital days per person with a hospital episode Conditions:	8.0			5.1		
Incidence of acute conditions per 100 persons per						
year Prevalence of selected chronic conditions per 1,000 persons per year:	171.7			189.4		
Arthritis	113.1	128.3	0.88	139.1	130.0	1.07
Deafness and other hearing impairments	71.0	87.4	0.81	87.7	89.1	0.98
Deformities or orthopedic impairments	121.6	133.9	0.91	188.4	136.7	1.38
Heart disease	71.6	80.0	0.90	84.1	81.1	1.00
High blood pressure	108.2	119.4	0.91	71.0	120.6	0.59
Hemorrhoids	43.6			55.1		
Chronic bronchitis	46.2			*40.6		
Asthma	44.0			*45.7		
Hav fever.	88.6			129.7		
Chronic sinusitis	114.2			87.7		

Table 54. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Portland primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Portland PMSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			21.8		
1844 years	44.4			47.2		
45-64 years	18.9			18.3		
6574 years	6.9			7.0		
75 years and over	4.2			5.7		
Health characteristics			Rai	te		
Percent limited in activity	12.4	13.5	0 92	167	14 1	1 18
Percent with fair or noor respondent-assessed health	87	9.8	0.89	91	10.3	0.88
Disability days:	0.7	3.0	0.05	5.1	10.0	0.00
Restricted-activity days per 100 persons	1,389.8			1.552.9		
Bed-disability days per 100 persons	603.3			567.6		
Work-loss days per 100 currently employed persons						
18-64 years of age	537.1			489.8		
School-loss days per 100 children 5-17 years of age	530.2			*717.9		
Physician contacts:						
Percent with a physician contact in the past year	76.7			74.0		
Physician contacts per person	5.5			6.8		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	6.7	8.5	0.79
Hospital days per person with a hospital episode	8.0			5.3		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			194.1		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	148.0	136.5	1.08
Deafness and other hearing impairments	71.0	87.4	0.81	81.8	93.1	0.88
Deformities or orthopedic impairments	121.6	133.9	0.91	210.6	139.4	1.51
Heart disease	71.6	80.0	0.90	96.6	84.6	1.14
High blood pressure	108.2	119.4	0.91	80.9	125.6	0.64
Hemorrholds,	43.6			*55.7		
Chronic bronchitis	46.2			*45.3		
Asthma	44.0			*42.6		
Hay fever	88.6			151.4		
Chronic sinusitis	114.2			94.9		

Table 55. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Sacramento metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Age and health characteristic	All large CMSA's and MSA's			Sacramento MSA		
	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
	<u></u>		Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			26.5		
18–44 years	44.4			46.9		
45–64 years	18.9			19.0		
65–74 years	6.9			4.4		
75 years and over	4.2			3.3		
Health characteristics			Ra	te		
Percent limited in activity	19.4	13.5	0.02	17 7	44.4	1 50
Percent with fair or poor respondent assessed health	9.7	13.5	0.92	10.6	11.1	1.59
Disability days:	0.7	9.0	0.03	10.0	9.0	1.10
Bestricted activity days por 100 porsons	1 200 0			1 590 5		
Red disability days per 100 persons	1,009.0			1,560.5		
Work loss days per 100 persons	003.3			011.2		
18-64 years of age	537 1			463.9		
School-loss days per 100 children 5-17 years of age	530.2			885 1		
Physician contacts:	000.2			000.1		
Percent with a physician contact in the past year	76 7			75 5		
Physician contacts per person	55			60		
Hospitalization	0.0			0.0		
Percent with hospital episode in the past year	75	81	0.93	57	78	0 73
Hospital days per person with a bospital episode	8.0		0.30	5.7	7.0	0.70
Conditions:	0.0			0.0		
Incidence of acute conditions per 100 persons per						
year	171.7			181.4		
Prevalence of selected chronic conditions per 1,000						
persons per year:						
Arthritis	113.1	128.3	0.88	128.2	113.8	1.13
Deafness and other hearing impairments	71.0	87.4	0.81	175.4	79.1	2.22
Deformities or orthopedic impairments	121.6	133.9	0.91	190.7	131.7	1.45
Heart disease	71.6	80.0	0.90	45.2	71.6	0.63
High blood pressure	108.2	119.4	0.91	116.9	108.3	1.08
Hemorrhoids.	43.6			66.4		
Chronic bronchitis	46.2			*45.2		
Asthma	44.0			74.4		
Hav fever	88.6			112.3		
Chronic sinusitis	114.2			146.8		

Table 56. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and San Diego metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			San Diego MSA		
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			26.4		
18–44 years	44.4			41.3		
45–64 years	18.9			18.3		
65–74 years	6.9			8.9		
75 years and over	4.2			5.1		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	12.5	14.2	0.88
Percent with fair or poor respondent-assessed health Disability days:	8.7	9.8	0.89	6.4	10.3	0.62
Restricted-activity days per 100 persons	1,389.8			1,358.6		
Bed-disability days per 100 persons	603.3			481.3		
Work-loss days per 100 currently employed persons						
18–64 years of age	537.1			486.4		
School-loss days per 100 children 5-17 years of age	530.2			*482.9		
Physician contacts:						
Percent with a physician contact in the past year	76.7			81.7		
Physician contacts per person	5.5			7.4		
Percent with hospital episode in the past year	7.5	8.1	0.93	6.4	8.3	0.77
Hospital days per person with a hospital episode	8.0			6.4		
Conditions:						
Incidence of acute conditions per 100 persons per						
year Prevalence of selected chronic conditions per 1,000 persons per vear:	171.7			188.5		
Arthritis	113.1	128.3	0.88	104.8	139.0	0.75
Deafness and other hearing impairments	71.0	87.4	0.81	88.1	93.7	0.94
Deformities or orthopedic impairments	121.6	133.9	0.91	135.8	134.1	1.01
Heart disease	71.6	80.0	0.90	85.3	86.5	0.99
High blood pressure	108.2	119.4	0.91	96.4	126.9	0.76
Hemorrholds	43.6			72.3		
Chronic bronchitis	46.2			65.8		
Asthma	44.0			64.4		
Hay fever	88.6			58.4		
Chronic sinusitis	114.2			137.2		
Table 57. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and San Francisco–Oakland–San Jose consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's		San Francisco–Oakland–San Jose CMSA			
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			22.8		
18–44 years	44.4			45.8		
45–64 years	18.9			19.9		
65–74 years	6.9			7.2		
75 years and over	4.2			4.3		
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	13.0	13.8	0.94
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	7.6	10.1	0.75
Bestricted-activity days per 100 persons	1 389 8			1 642 5		
Bed-disability days per 100 persons	603.3			692.8		
Work-loss days per 100 currently employed persons	000.0			002.0		
18-64 years of age	537.1			638.6		
School-loss days per 100 children 5-17 years of age.	530.2		~	713.6		~
Physician contacts:						
Percent with a physician contact in the past year	76.7			77.3		
Physician contacts per person	5.5			6.3		
Hospitalization:						
Percent with hospital episode in the past year	7.5	8.1	0.93	6.1	8.3	0.73
Hospital days per person with a hospital episode	8.0			8.4		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			231.1		
Prevalence of selected chronic conditions per 1,000 persons per year:						
Arthritis	113.1	128.3	0.88	141.1	133.6	1.06
Deafness and other hearing impairments	71.0	87.4	0.81	82.6	90.2	0.92
Deformities or orthopedic impairments	121.6	133.9	0.91	148.8	137.7	1.08
Heart disease	71.6	80.0	0.90	47.5	82.3	0.58
High blood pressure	108.2	119.4	0.91	114.9	124.3	0.92
Hemorrhoids	43.6			50.6		
Chronic bronchitis	46.2			39.2		
Asthma	44.0			46.2		
Hay fever	88.6			150.3		
Chronic sinusitis	114.2			76.9		

Table 58. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and San Francisco–Oakland primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			San Francisco-Oakland PMSA			
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio	
			Percent di	stribution			
Total	100.0			100.0			
Age							
Under 18 years	25.6			21.5			
18–44 years	44.4			46.9			
45–64 years	18.9		-	19.0			
65–74 years	6.9			7.7			
75 years and over	4.2			4.9			
Health characteristics			Rat	te			
Persent limited in activity	10.4	10 6	0.00	12.0	444	0.00	
Percent with fair or near remember accorded health	12.4	13.5	0.92	13.0	14.1	0.92	
Disability days:	8.7	9.8	0.89	8.6	10.3	0.83	
Restricted-activity days per 100 persons	1,389.8			1,566.0			
Bed-disability days per 100 persons	603.3			669.6			
18–64 years of age	537.1			618.5			
School-loss days per 100 children 5-17 years of age	530.2			447.3			
Physician contacts:							
Percent with a physician contact in the past year	76.7			76.8			
Physician contacts per person	5.5			6.2			
Hospitalization:							
Percent with hospital episode in the past year	7.5	8.1	0.93	6.0	8.4	0.71	
Hospital days per person with a hospital episode	8.0			7.8			
Conditions:							
Incidence of acute conditions per 100 persons per							
year	171.7			212.4			
Prevalence of selected chronic conditions per 1,000 persons per year:							
Arthritis	113.1	128.3	0.88	143.0	137.2	1.04	
Deafness and other hearing impairments	71.0	87.4	0.81	62.7	92.8	0.68	
Deformities or orthopedic impairments	121.6	133.9	0.91	143.9	139.6	1.03	
Heart disease	71.6	80.0	0.90	53.3	84.6	0.63	
High blood pressure	108.2	119.4	0.91	130.7	126.8	1.03	
Hemorrhoids.	43.6			55.9			
Chronic bronchitis	46.2			39.7		-	
Asthma	44.0			34.1			
Hay fever	88.6			136.3		<i>~</i>	
Chronic sinusitis	114.2			73.9			

Table 59. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and San Jose primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's		San Jose PMSA			
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbldity ratio
			Percent di	stribution		
Total	100.0			100.0		
Age						
Under 18 years	25.6			23.7		
18–44 vears.	44.4			48.0		
45–64 years.	18.9			20.9		
65–74 years.	6.9			5.5		
75 years and over	4.2			2.0		
			_			
Health characteristics			Ra	te		
Percent limited in activity	12.4	13.5	0.92	11.3	12.8	0.88
Percent with fair or poor respondent-assessed health	8.7	9.8	0.89	5.8	9.2	0.63
Bestricted-activity days per 100 persons	1 390 9			1 360 3		
Bed-disability days per 100 persons	603.3			560.4		
Work-loss days per 100 currently employed persons	000.0			000.4		
18–64 years of age	537.1			670.4		
School-loss days per 100 children 5-17 years of age.	530.2			*680.4		
Physician contacts:						
Percent with a physician contact in the past year	76.7			76.2		
Physician contacts per person	5.5			5.8		
Hospitalization:	0.0			0.0		
Percent with hospital episode in the past year	7.5	8.1	0.93	6.3	7.9	0.80
Hospital days per person with a hospital episode	8.0			4.5		
Conditions:						
Incidence of acute conditions per 100 persons per						
year	171.7			220.0		
Prevalence of selected chronic conditions per 1,000						
persons per year:						
Arthritis	113.1	128.3	0.88	102.8	117.5	0.87
Deafness and other hearing impairments	71.0	87.4	0.81	84.2	80.0	1.05
Deformities or orthopedic impairments	121.6	133.9	0.91	152.8	135.0	1.13
Heart disease	71.6	80.0	0.90	*49.9	72.6	*0.69
High blood pressure	108.2	119.4	0.91	92.4	113.2	0.82
Hemorrhoids	43.6		,	*38.0		
Chronic bronchitis	46.2			*49.9		
Asthma	44.0			*38.0		
Hay fever	88.6			150.5		
Chronic sinusitis	114.2			97.6		

Table 60. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Seattle-Tacoma consolidated metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Seattle-Tacoma CMSA			
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio	
			Percent di	stribution			
Total	100.0			100.0			
Age							
Under 18 years	25.6			25.5			
18-44 years	44.4			45.0			
45-64 years	18.9			18.7			
65-74 years	6.9			6.8			
75 years and over	4.2			4.0			
Health characteristics			Ra	te			
Percent limited in activity	12.4	13.5	0.92	14.5	13.4	1.08	
Percent with fair or poor respondent-assessed health	87	98	0.89	69	97	0.71	
Disability days:	0	0.0	0.00	0.0	0.1	0.77	
Restricted-activity days per 100 persons	1,389.8			1.476.1			
Bed-disability days per 100 persons	603.3			518.5	_~-		
Work-loss days per 100 currently employed persons							
18-64 years of age	537.1			360.2			
School-loss days per 100 children 5-17 years of age.	530.2			554.4			
Physician contacts:							
Percent with a physician contact in the past year	76.7			78.3			
Physician contacts per person	5.5			6.6			
Hospitalization:							
Percent with hospital episode in the past year	7.5	8.1	0.93	7.6	8.1	0.94	
Hospital days per person with a hospital episode	8.0			7.2			
Conditions:							
Incidence of acute conditions per 100 persons per							
year	171.7			209.7			
Prevalence of selected chronic conditions per 1,000 persons per year:							
Arthritis	113.1	128.3	0.88	109.7	126.6	0.87	
Deafness and other hearing impairments	71.0	87.4	0.81	122.1	86.4	1.41	
Deformities or orthonedic impairments	121.6	133.9	0.91	196.1	133.8	1.47	
Heart disease	71.6	80.0	0.90	74.3	79.0	0.94	
High blood pressure.	108.2	119.4	0.91	107.3	118.1	0.91	
Hemorrholds	43.6			57.5			
Chronic bronchitis	46.2			80.0			
Asthma	44.0			30.9			
Hav fever	88.6			92.8			
Chronic sinusitis	114.2			101.2			
	••••						

Table 61. Percent distribution of population by age and rate of selected health characteristics, according to all large metropolitan statistical areas and Seattle primary metropolitan statistical area: United States, 1988–89

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All large CMSA's and MSA's			Seattle PMSA			
Age and health characteristic	Observed	Expected	Morbidity ratio	Observed	Expected	Morbidity ratio	
			Percent di	stribution			
Totai	100.0			100.0			
Age							
Under 18 years	25.6			24.2			
18–44 years	44.4			46.0			
45–64 years	18.9			19.5			
65–74 vears	6.9			6.9			
75 years and over	4.2			3.4			
Health characteristics			Ra	te			
Deveent limited in optivity	10.4	10 5	0.02	14.4	10.4	1.07	
	12.4	13.5	0.92	14.4	10.4	1.07	
Disability days:	8.7	9.8	0.89	6.2	9.7	0.64	
Restricted-activity days per 100 persons	1,389.8			1,384.1			
Bed-disability days per 100 persons	603.3			508.8			
Work-loss days per 100 currently employed persons							
18–64 years of age	537.1			359.0			
School-loss days per 100 children 5-17 years of age	530.2			606.4			
Physician contacts:							
Percent with a physician contact in the past year	76.7			77.5			
Physician contacts per person	5.5			6.3			
Hospitalization:							
Percent with hospital episode in the past year	7.5	8.1	0.93	7.2	8.1	0.89	
Hospital days per person with a hospital episode	8.0			7.3			
Conditions:							
Incidence of acute conditions per 100 persons per							
year	171.7			200.4			
Prevalence of selected chronic conditions per 1,000 persons per year:							
Arthritis	113.1	128.3	0.88	99.2	126.5	0.78	
Deafness and other hearing impairments	71.0	87.4	0.81	122.8	85.9	1.43	
Deformities or orthopedic impairments	121.6	133.9	0.91	184.5	135.2	1.36	
Heart disease	71.6	80.0	0.90	86.9	78.5	1.11	
High blood pressure	108.2	119.4	0.91	109.4	118.9	0.92	
Hemorrhoids.	43.6			63.8			
Chronic bronchitis	46.2			94.9			
Asthma	44.0			*26.3			
Hay fever	88.6			95.4			
Chronic sinusitis	114.2			112.6			

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Appendix I Technical notes on methods

Background

This report is one of a series of statistical reports published by the National Center for Health Statistics (NCHS). It is based on information collected in a continuing nationwide sample of households included in the National Health Interview Survey (NHIS). Data are obtained on the personal, sociodemographic, and health characteristics of family members and unrelated individuals living in these households.

Field operations for the survey are conducted by the U.S. Bureau of the Census under specifications established by NCHS. The U.S. Bureau of the Census participates in the survey planning, selects the sample, and conducts the interviews. The data are then transmitted to NCHS for preparation, processing, and analysis.

Summary reports and reports on special topics for each year's data are prepared by the staff of the Division of Health Interview Statistics for publication in Series 10 of *Vital and Health Statistics*. Data are also tabulated for other reports prepared by NCHS staff and for use by other organizations and by researchers within and outside the Government. Since 1969, public-use data tapes have been prepared for each year of data collection.

It should be noted that estimates of health characteristics obtained during the NHIS pertain only to the resident civilian noninstitutionalized population of the United States living at the time of the interview. The sample does not include persons residing in nursing homes, members of the Armed Forces, institutionalized persons, or U.S. nationals living abroad.

Statistical design of the NHIS

General design

Data from the NHIS have been collected continuously since 1957. The sample design of the survey has undergone changes following each decennial census. This periodic redesign of the NHIS sample allows the incorporation of the latest population information and statistical methodology into the survey design. The data presented in this report are from an NHIS sample design first used in 1985. It is anticipated that this design will be used until 1995.

The sample design plan of the NHIS follows a multistage probability design that permits a continuous sampling of the civilian noninstitutionalized population residing in the United States. The survey is designed in such a way that the sample scheduled for each week is representative of the target population, and the weekly samples are additive over time. This design permits estimates for high-frequency measures or for large population groups to be produced from a short period of data collection. Estimates for low-frequency measures or for smaller population subgroups can be obtained from a longer period of data collection. The annual sample is designed so that tabulations can be provided for each of the four geographic regions. Because interviewing is done throughout the year, there is no seasonal bias for annual estimates.

The continuous data collection also has administrative and operational advantages because fieldwork can be handled on a continuing basis with an experienced, stable staff.

Sample selection

The target population for the NHIS is the civilian noninstitutionalized population residing in the United States. For the first stage of the sample design, the United States is considered to be a universe composed of approximately 1,900 geographically defined primary sampling units (PSU's). A PSU consists of a county, small group of contiguous counties, or a metropolitan statistical area. The PSU's collectively cover the 50 States and the District of Columbia. The 52 largest PSU's are selected into the sample with certainty and are referred to as selfrepresenting PSU's. The other PSU's in the universe are referred to as non-self-representing PSU's. These PSU's are clustered into 73 strata, and 2 sample PSU's are chosen from each stratum with probability proportional to population size. This gives a total of 198 PSU's selected in the first stage.

Within a PSU, two types of second-stage units are used: area segments and permit-area segments. Area segments are defined geographically and contain an expected eight households. Permit-area segments cover geographic areas containing housing units built after the 1980 census. The permit-area segments are defined using updated lists of building permits issued in the PSU since 1980 and contain an expected four households.

Within each segment all occupied households are targeted for interview. On occasion, a sample segment

may contain a large number of households. In this situation, the households are subsampled to provide a manageable interviewer workload.

The sample was designed so that a typical NHIS sample for the data collection years 1985 to 1995 will consist of approximately 7,500 segments containing about 59,000 assigned households. Of these households, an expected 10,000 will be vacant, demolished, or occupied by persons not in the target population of the survey. The expected sample of 49,000 occupied households will yield a probability sample of about 127,000 persons.

Features of the NHIS sample redesign

Starting in 1985, the NHIS design incorporated several new design features (8). The major changes include the following:

- The use of an all-area frame. The NHIS sample is now designed so that it can serve as a sample frame for other NCHS population-based surveys. In previous NHIS designs, about two-thirds of the sample was obtained from lists of addresses compiled at the time of the decennial census; that is, a list frame. Because of the U.S. Bureau of the Census confidentiality restrictions, these sample addresses could be used only for those surveys being conducted by the U.S. Bureau of the 1985 NHIS area frame does not use the census address lists. The sample addresses thus obtained can be used as a sampling frame for other NCHS surveys.
- The NHIS as four panels. Four national subdesigns, or panels, constitute the full NHIS. Each panel contains a representative sample of the U.S. civilian noninstitutionalized population. Each of the four panels has the same sampling properties, and any combination of panels defines a national design. Panels were constructed to facilitate the linkage of the NHIS to other surveys and also to efficiently make large reductions in the size of the sample by eliminating panels from the survey.

During 1988–89, the sample consisted of 16,368 segments containing 121,766 assigned households. Of the 98,115 households eligible for interview, 93,196 households were actually interviewed, resulting in a sample of 239,239 persons.

• The oversampling of black persons. One of the goals in designing the current NHIS was to improve the precision of estimates for black persons. This was accomplished by the use of differential sampling rates in PSU's with between about 5 and 50 percent black population. Sampling rates for selection of segments were increased in areas known to have the highest concentrations of black persons. Segment sampling rates were decreased in other areas within the PSU to ensure that the total sample in each PSU was the

same size as it would have been without oversampling black persons.

- The reduction of the number of sampled PSU's. Interviewer travel to sample PSU's constitutes a large component of the total field costs for the NHIS. The previous NHIS design included 376 PSU's. Research showed that reducing the number of sample PSU's while increasing the sample size within PSU's would reduce travel costs and also maintain the reliability of health estimates. The design now contains 198 PSU's.
- The selection of two PSU's per non-self-representing stratum. In the previous design, one PSU was selected from each non-self-representing stratum. This feature necessitated the use of less efficient variance estimation procedures; the selection of two PSU's allows more efficient variance estimation methodology.

Collection and processing of data

The NHIS questionnaire contains two major parts, the first of which consists of topics that remain relatively similar from year to year. Among these topics are the incidence of acute conditions, the prevalence of chronic conditions, persons limited in activity due to chronic conditions, restriction in activity due to impairment or health problems, and utilization of health care services involving physician care and short-stay hospitalization. Occasionally new questions are incorporated into the main questionnaire. Since 1985, questions have been included that ask the household members' city and State of birth, social security number, and father's last name. In 1989, questions were added that ask the location (city, county, and State) of any physician contact whether by telephone or in person. For household members born in the United States, questions were added asking how many years they have lived in their State of residence, and, for household members born in a foreign country, how many years they have lived in the United States.

The second part consists of special topics added as supplements to each year's questionnaire. Beginning in August 1987, a special set of supplemental questions on the adult population's knowledge and attitudes about acquired immunodeficiency syndrome (AIDS) was added to the NHIS through computer-assisted personal interview (CAPI). A copy of the most recent AIDS questionnaire is shown in the 1989 *Current Estimates* report (6).

Careful procedures are followed to assure the quality of data collected in the interview. Most households in the sample are contacted by mail before the interviewers arrive. Potential respondents are informed of the importance of the survey and assured that all information obtained in the interview will be held in strict confidence. Interviewers make repeated trips to a household when a respondent is not immediately found. The success of these procedures is indicated by the response rate for the survey, which has been between 95 and 98 percent over the years. When contact is made, the interviewer attempts to have all family members of the household 19 years of age and over present during the interview. When this is not possible, proxy responses for absent adult family members are accepted. In most situations, proxy respondents are used for persons under 19 years of age. Persons 17 and 18 years of age may respond for themselves, however.

Interviewers undergo extensive training and retraining. The quality of their work is checked by means of periodic observation and by reinterview. Their work is also evaluated by statistical studies of the data they obtain in their interviews. A field edit is performed on all completed interviews so that, if there are any problems with the information on the questionnaire, respondents can be recontacted to solve the problem.

Completed questionnaires are sent from the U.S. Bureau of the Census field offices to NCHS for coding and editing. To ensure the accuracy of coding, a 5-percent sample of all questionnaires is recoded and keyed by other coders. A 100-percent verification procedure is used if certain error tolerances are exceeded. Staff of the Division of Health Interview Statistics then edit the files to remove impossible and inconsistent codes.

The interview, fieldwork, and data processing procedures summarized above are described in detail in Series 1 of *Vital and Health Statistics* (9).

Estimation procedures

Because the design of the NHIS is a complex multistage probability sample, it is necessary to reflect these complex procedures in the derivation of estimates (8). The estimates presented in this report are based on 1988–89 sample person counts weighted to produce national estimates. The weight for each sample person is the product of four component weights:

- Probability of selection—The basic weight for each person is obtained by multiplying the reciprocals of the probabilities of selection at each step in the design: PSU, segment, and household.
- Household nonresponse adjustment within segment In the NHIS, interviews are completed in about 95 percent of all eligible households. Because of household nonresponse, a weighting adjustment is required. The nonresponse adjustment weight is a ratio with the number of households in a sample segment as the numerator and the number of households actually interviewed in that segment as the denominator. This adjustment reduces bias in an estimate to the extent that persons in the noninterviewed households have the same characteristics as the persons in the interviewed households in the same segment.
- First-stage ratio adjustment The weight for persons in the non-self-representing PSU's is ratio adjusted to the 1980 population within four race-residence classes of the non-self-representing strata within each geographic region.

Table I. The 60 poststratification age-sex-race cells in the National Health Interview Survey

	Bi	Black		Black Al		
Age	Male	Female	Male	Female		
Under 1 year	х	x	x	x		
1–4 years	х	х	х	х		
5-9 years	х	х	х	Х		
10-14 years	х	х	х	х		
15-17 years	х	х	х	Х		
18–19 years	х	х	х	х		
20-24 years	х	х	х	Х		
25–29 years	х	х	х	х		
30–34 years	х	х	х	х		
35-44 years	Х	х	х	х		
45-49 years	х	x	х	х		
50–54 years	х	х	х	Х		
55–64 years	х	х	х	Х		
65-74 years	х	х	х	х		
75 years and over	Х	х	Х	х		

• Poststratification by age-sex-race – Within each of 60 age-sex-race cells (table I), a weight is constructed each quarter to ratio-adjust the first-stage population estimate based on the NHIS to an independent estimate of the population of each cell. These independent estimates are prepared by the U.S. Bureau of the Census and are updated quarterly.

The main effect of the ratio-estimating process is to make the sample more closely representative of the target population by age, sex, race, and residence. The poststratification adjustment helps to reduce the component of bias resulting from sampling frame undercoverage; furthermore, this adjustment frequently reduces sampling variance.

Types of estimates

As noted, NHIS data were collected on a weekly basis, with each week's sample representing the resident civilian noninstitutionalized population of the United States living during that week. The weekly samples are consolidated to produce quarterly files (each consisting of data for 13 weeks). Weights to adjust the data to represent the U.S. population are assigned to each of the four quarterly files. These quarterly files are later consolidated to produce the annual file, which is the basis of most tabulations of the NHIS data.

The NHIS uses various reference periods to reduce the amount of bias associated with respondent memory loss. A 2-week reference period is used in collecting data on the incidence of acute conditions, restriction in activity due to a health problem, and physician contacts. Each of these measures health events that may be forgotten soon after they occur. Examples of such events are telephoning a physician about a minor illness, missing a day from work because of a routine health problem, or having a cold. Either a 12- or 6-month (depending on the type of statistic) reference period is used for hospitalization data because hospitalization ordinarily involves a major event in a person's life and is not quickly forgotten. Chroniccondition prevalence estimates are based on a 12-month reference period.

Because most NHIS estimates based on a 2-week reference period are designed to represent the number of health events for a 12-month period, these data must be adjusted to an annual basis. Data based on a 2-week reference period are multiplied by 6.5 to produce the 13-week estimate for the quarter. These reference-period adjustments are made at the time that the quarterly files are produced. Therefore, the data can be used to produce estimates for each quarter and are used that way to study seasonal variation. The data from the four quarterly files (representing the number of events in each quarter) are summed to produce the annual estimate. Although these data are collected for only 2 weeks for each person included in the survey, any unusual event that may have occurred during a particular 2-week period does not bias the estimate because the quarterly estimate is a sum of the estimates produced for each week's sample during the entire quarter, and the annual estimate is the sum of the four quarters.

For prevalence statistics, such as the number of persons limited in activity due to chronic conditions, the annual estimate results from summing the weighted quarterly files and dividing by 4. This division is necessary because, as noted above, each quarterly file has been weighted to produce an estimate of the number of persons in the U.S. population with a given characteristic. Summing the four quarters and dividing by 4 in effect averages these quarterly results for the year. Thus, the type of prevalence estimate ordinarily derived from NHIS data is an annual-average-prevalence estimate.

For data related to short-stay hospital discharges that are based on a 6-month reference period, cases identified during any quarter of data collection are multiplied by 2 to produce a quarterly estimate of the annual number of characteristics associated with short-stay hospital discharges. The NHIS average annual estimate of hospital discharges is derived by summing the four quarterly estimates and dividing by 4, just as the prevalence estimates are.

Reliability of the estimates

Because NHIS estimates are based on a sample, they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same survey and processing procedures. There are two types of errors possible in an estimate based on a sample survey: nonsampling and sampling errors. To the extent possible, these types of errors are kept to a minimum by methods built into the survey procedures described earlier (10). Although it is very difficult to measure the extent of bias in the NHIS, several studies have been conducted to examine this problem. The results have been published in several reports (11–14).

Nonsampling errors

Interviewing process - Information, such as the number of days of restricted activity caused by the condition, can be obtained more accurately from household members than from any other source because only the persons concerned are in a position to report this information. However, there are limitations to the accuracy of diagnostic and other information collected in household interviews. For example, for diagnostic information, the household respondent can usually pass on to the interviewer only the information the physician has given to the family. For conditions not medically attended, diagnostic information is often no more than a description of symptoms. Further, a respondent may not answer a question in the intended manner because he or she has not properly understood the question, has forgotten the event, does not know, or does not wish to divulge the answer. Regardless of the type of measure, all NHIS data are estimates of known reported morbidity, disability, and so forth.

Reference period bias – NHIS estimates do not represent a complete measure of any given topic during the specified calendar period because data are not collected in the interview for persons who died or became institutionalized during the reference period. For many types of statistics collected in the survey, the reference period is the 2 weeks prior to the interview week. For such a short period, the contribution by decedents to a total inventory of conditions or services should be very small. However, the contribution by decedents during a long reference period (such as 1 year) might be significant, especially for older persons.

Underreporting associated with a long reference period is most germane to data on hospitalization. Analysis has shown that there is an increase in underreporting of hospitalizations with an increase in the time interval between the discharge and the interview. Exclusive of the hospital experience of decedents, the net underreporting using a 12-month-recall period is about 10 percent (15). The underreporting of discharges within 6 months of the week of interview is estimated to be about 5 percent (15). For this reason, hospital discharge data are based on hospital discharges reported to have occurred within 6 months of the week of interview.

Because hospitalization is common in the period immediately preceding death or institutionalization and older persons are much more likely to die than younger ones, the data should not be used to estimate the volume of hospitalization of the elderly, although the data can be used to measure characteristics of elderly people.

It should further be noted that, although the reported frequencies and rates related to hospital episodes are presented by the year in which the data were collected, the estimates are, in most cases, based on hospitalizations that occurred during the year of data collection and the prior year. Overall, approximately one-half of the reported hospitalizations for the 12-month reference period occurred in the year prior to the year of data collection.

Population estimates-Some of the published tables include population figures for specified categories. Except for overall totals for the 60 age, sex, and race groups, which are adjusted to independent estimates, these figures are based on the sample of households in the NHIS. They are given primarily to provide denominators for rate computation; and, for this purpose, they are more appropriate for use with the accompanying measures of health characteristics than other population data that may be available. With the exception of the overall totals by age, sex, and race mentioned above, the population figures may differ from figures (which are derived from different sources) published in reports of the U.S. Bureau of the Census. Official population estimates are presented in U.S. Bureau of the Census reports in Series P-5, P-20, and P-60.

Rounding of numbers – In published tables, the figures are rounded to the nearest thousand, although they are not necessarily accurate to that detail. Derived statistics, such as rates and percent distributions, are computed after the estimates on which these are based have been rounded to the nearest thousand.

Combining data years – To reduce sampling error, data for a number of years may be combined. However, in so doing, the questionnaire for each of the years should be checked, because even a small change in the questionnaire design may lead to large changes in the derived estimates. This caution also applies to using NHIS data on health measures where changes in other events, such as legislative changes, have occurred over time.

Sampling errors

The standard error is primarily a measure of sampling error, that is, the variations that might occur by chance because only a sample of the population is surveyed. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 95 out of 100 that the difference would be less than twice the standard error and about 99 out of 100 that it would be less than 2 1/2 times as large.

Individual standard errors were not computed for each estimate in this report. Instead, standard errors were computed for a broad spectrum of estimates. Regression techniques were then applied to produce equations from which a standard error for any estimate can be approximated. The regression equations, represented by parameters a and b, are presented in table II. Also shown are the cutoff values—the estimated number of persons or events below which the relative standard error is greater than 30 percent and estimates do not meet NHIS standards of statistical reliability. Rules explaining their use are presented in the section below.

The reader is cautioned that this procedure will give an approximate standard error of an estimate rather than the precise standard error. The reader is further cautioned that particular care should be exercised when the denominator is small.

General rules for determining standard errors

To produce approximate standard errors for NHIS estimates, the reader must first determine the type of characteristic to be estimated, that is, the parameter set in table II to be used. The reader must then determine the type of estimate for which the standard error is needed. The type of estimate corresponds to one of five general rules for determining standard errors. Examples of their use are available in the 1988 and 1989 *Current Estimates* reports (5,6).

Rule 1. Estimated number of people or events – For the estimated number of people or events published in this report, there are two cases to consider. For the first case, if the estimated number is any combination of the post-stratification age-sex-race cells in table I, then its value has been adjusted to official U.S. Bureau of the Census figures, and its standard error is assumed to be 0.0. This corresponds to parameter set VIII in table II. As an

Table II. Estimated	standard error p	arameters and 30-pe	ercent relative sta	andard error cutoff	f points for the N	ational Health Interview
Survey, 1988–89						

		Estir parar	30-percent	
Parameter set	Characteristic	а	b	RSE cutoff points ¹
1	Number of acute conditions	0.0001125	33,900	377,000
II	Days of restricted-activity or bed days	0.0001815	237,500	2,644,000
111	Days lost from work or school	0.0001085	177,500	1,975,000
IV	Prevalence of chronic conditions	0.00004465	6,100	68,000
v	Number of physician contacts based on a 2-week reference period	0.0000141	83,000	900,000
VI	Hospital days based on a 12-month reference period	0.00016	27,150	300,000
VII	Population estimates for demographic, socioeconomic, and health characteristics	0.00001535	1,820	21,000
VIII	Age-sex-race population based on combining the poststratification cells of table I	0.0	0	21,000

¹Estimates below the cutoff points have a relative standard error (RSE) of more than 30 percent and are considered to be statistically unreliable.

example, this would be the case for the number of persons in the U.S. target population or a specific metropolitan statistical area. Although the race class "white" is not specifically adjusted to U.S. Bureau of the Census figures, it dominates the poststratification "all other" race class; consequently, age-sex-all-other-race combinations of table I can be treated as age-sex-white combinations for the purpose of approximating standard errors.

For the second case, the standard errors for all other estimates of numbers of people or events, such as the number of people limited in activity or the number of acute conditions, are approximated by using the parameters provided in table II and formula 1 below.

If the aggregate x for a characteristic has associated parameters a and b, then the approximate standard error for x, SE(x), can be computed by the formula

$$SE(x) = \sqrt{ax^2 + bx} \tag{1}$$

Rule 2. Proportions and percents when the denominator is not generated by the poststratification age-sex-race classes-If p represents an estimated percent, b is the parameter from table II associated with the numerator characteristics, and y is the number of persons in the denominator on which p is based, then the standard error of p may be approximated by

$$SE(p) = \sqrt{\frac{bp(100-p)}{y}}$$
(2)

(If p is a proportion, then the above formula can be used but with 100 replaced by 1.0.)

Rule 3. For rates, proportions, and percents when the denominator is generated by the poststratification age-sex-race classes (table I)—In this case, the denominator has no sampling error. For example, rule 3 would apply to the estimated number of hearing impairments among persons 18 years of age and over because the denominator is a combination of the poststratification cells. Approximate standard errors for such estimates can be computed using table II a and b parameters associated with the numerator characteristics along with formula 3 below.

If the estimate of rate, proportion, or percent p is the ratio of two estimated numbers, p = x/Y (where p may be inflated by 100 for percents or 1,000 for rates per 1,000 persons), with Y having no sampling error, then the approximate standard error for p is given by the formula

$$SE(p) = p \sqrt{a + \frac{b}{x}}$$
(3)

In this report, the value of the denominator Y is always provided, but, in a few cases, the numerator value xis not published. For these cases the value of x may be computed by the formula

$$x = \begin{cases} \frac{pY}{pY} & \text{if } p \text{ is a proportion or rate per unit or} \\ \frac{pY}{100} & \text{if } p \text{ is a percent or rate per 100 units or} \\ \frac{pY}{1,000} & \text{if } p \text{ is a rate per 1,000 units} \end{cases}$$

Rule 4. Rates where the denominator is not generated by the poststratification age-sex-race classes – If the estimated rate p is expressed as the ratio of two estimates, p = x/y(inflated by 100 or 1,000 when appropriate), then the estimated standard error for p is given by the formula

$$SE(p) = p \sqrt{\frac{SE(x)^2 + SE(y)^2 - 2r}{x^2} \frac{SE(x)}{y^2} \frac{SE(y)}{x}}$$
(4)

where SE(x) and SE(y) are computed using rule 1, and x and y are obtained from the tables. No estimates of r, the correlation between the numerator and denominator, are presented in this report; therefore, only the first two terms are available. The reader must assume that r = 0.0. Assuming r = 0.0 will yield an overestimate of the standard error if r is actually positive and an underestimate if r is negative.

Rule 5. Difference between two statistics (mean, rate, total, and proportion) – If x_1 and x_2 are two estimates, then the standard error of the difference (x_1-x_2) can be computed as follows:

$$SE(x_1 - x_2) = \sqrt{SE(x_1)^2 + SE(x_2)^2 - 2r SE(x_1)SE(x_2)}$$
(5)

where $SE(x_1)$ and $SE(x_2)$ are computed using rules 1-4 as appropriate and r is the correlation coefficient between x_1 and x_2 .

Assuming r = 0.0 will result in an accurate standard error if the two estimates are actually uncorrelated and will result in an overestimate of the standard error if the correlation is positive, or an underestimate if the correlation is negative.

Relative standard errors

Prior to 1985, relative standard error (RSE) curves were present in *Current Estimates* for approximating relative standard errors. For readers who wish to continue using them, the following provides guidance. The RSE of an estimate is obtained by dividing the standard error (SE) of the estimate by the estimate x itself. This quantity is expressed as a percent of the estimate:

$$RSE = 100 \frac{SE(x)}{x}$$

Appendix II Definitions of certain terms used in this report

Terms relating to conditions

Condition—Condition is a general term that includes any specific illness, injury, or impairment. Condition data are derived from the survey in two ways. First, respondents are asked to identify any conditions that caused certain types of impact associated with health, such as a visit to a doctor or a day spent in bed. Second, respondents are read lists of selected chronic conditions and asked whether they or any of their family members have any of these conditions.

At a later point in the survey, a series of questions is asked about each of the conditions identified in either of the two ways just described. The information obtained on each condition helps to clarify the nature of the condition and whether medical services have been involved in its diagnosis or treatment. It also aids in the coding of the condition. All conditions except impairments are coded according to the ninth revision of the *International Classification of Diseases* (16), with certain modifications adopted to make the codes more suitable for information derived from a household survey. A special set of codes devised by NHIS is used to code impairments (17).

Chronic condition -A condition is considered chronic if the respondent indicates it was first noticed more than 3 months before the reference date of the interview or it is a type of condition that ordinarily has a duration of more than 3 months (See definition of acute condition). Examples of conditions that are considered chronic regardless of their time of onset are diabetes, heart conditions, emphysema, and arthritis. A complete list of these conditions may be obtained by contacting the Division of Health Interview Statistics, National Center for Health Statistics.

Impairment—An impairment is a chronic or permanent defect, usually static in nature, that results from disease, injury, or congenital malformation. It represents a decrease in or loss of ability to perform various functions, particularly those of the musculoskeletal system and the sense organs. Impairments are grouped according to type of functional impairment and etiology in the special NHIS impairment codes.

Acute condition -A condition is considered acute if it was first noticed no more than 3 months before the reference date of the interview and it is not one of the conditions considered chronic regardless of the time of onset (See definition of chronic condition). However, any acute condition not associated with either at least one doctor visit or at least 1 day of restricted activity during the reference period is considered to be of minor consequence and is excluded from the final data produced by the survey.

Onset of condition -A condition is considered to have had its onset when it was first noticed. This could be the time the person first felt sick or became injured, or it could be the time the person or family was first told by a physician that the person had a condition of which he or she had been previously unaware.

Incidence of conditions—The incidence of a condition is the number of cases that had onset during a specified period of time. A person may have more than one acute condition during a period of time or may have the same condition, such as a headache, more than once. Ordinarily, however, a chronic condition can begin only one time during a given reference period.

Prevalence of conditions – The prevalence of a condition is the number of persons who have the condition at a given point in time. Although the prevalence of acute conditions is a meaningful concept, it is seldom used in health statistics, which generally focus on the incidence of acute conditions. If the prevalence of a chronic condition is measured during a period of time (for example, each week during a year), then the resulting estimate of prevalence is an average of 52 weekly prevalence estimates. This is called an average-annual-point-prevalence estimate.

Terms relating to disability

Disability – Disability is a general term that refers to any long- or short-term reduction of a person's activity as a result of an acute or chronic condition. Limitation of activity refers to a long-term reduction in a person's capacity to perform the average kind or amount of activities associated with his or her age group. Restriction of activity refers to particular kinds of behavior usually associated with a reduction in activity due to either longor short-term conditions. Thus limitation of activity refers to what a person is generally capable of doing, but restriction of activity ordinarily refers to a relatively short-term reduction in a person's activities below his or her normal capacity.

Limitation of activity because of chronic conditions – Persons are classified in terms of the major activity usually associated with their particular age group. The major activities for the age groups are:

- Ordinary play, for children under 5 years of age,
- Attending school, for those 5–17 years of age,
- Working or keeping house, for persons 18–69 years of age, and
- Capacity for independent living (for example, the ability to bathe, shop, dress, eat, and so forth, without needing the help of another person), for those 70 years of age and over

People aged 18–69 years who are classified as keeping house are also classified by their ability to work at a job or business. (In this report, the major activity of persons 65–69 years old is assumed to be working or keeping house; however, questions also were asked about the capacity for independent living in this age group, which would permit an alternative definition of limitation.)

In regard to these activities, each person is classified into one of four categories:

- Unable to perform the major activity,
- Able to perform the major activity but limited in the kind or amount of this activity,
- Not limited in the major activity but limited in the kind or amount of other activities, or
- Not limited in any way

In regard to these four categories, NHIS publications often classify persons only by whether they are limited (the first three categories) or not limited (the last category). Persons are not classified as limited in activity unless one or more chronic conditions are reported as the cause of the activity limitation. If more than one condition is reported, the respondent is asked to identify the condition that is the major cause of the limitation.

Restriction of activity—Four types of restricted activity are measured in NHIS:

- A *bed day* is one during which a person stayed in bed more than half a day because of illness or injury. All hospital days for inpatients are considered bed days even if the patient was not in bed more than half a day.
- A work-loss day is one on which a currently employed person 18 years of age or over missed more than half a day from a job or business.
- A school-loss day is one on which a student 5–17 years of age missed more than half a day from the school in which he or she was currently enrolled.
- A *cut-down day* is one on which a person cuts down for more than half a day on the things he usually does.

Work-loss, school-loss, and cut-down days refer to the short-term effects of illness or injury. However, bed days are a measure of both long- and short-term disability, because a chronically ill bedridden person and a person with a cold could both report having spent more than half a day in bed due to an illness.

The number of *restricted-activity days* is the number of days a person experienced at least one of the four types of

activity restriction just described. It is the most inclusive measure of disability days and the least descriptive; 4 days of restricted activity may mean 4 bed days associated with serious illness or 4 days during which a person merely cut down on his or her activities due to a mild illness.

A single restricted-activity day may involve both a bed day and a work-loss or school-loss day. However, a cutdown day cannot overlap any of these three types of disability days. In calculating the sum of restricted-activity days, each day is counted only once even if more than one type of activity restriction was involved.

Restricted-activity days may be associated with either persons or conditions. *Person days* are the number of days during which a person restricted his or her activity. *Condition days* are the number of days during which a condition caused a person to restrict his or her activity. A person day of restricted activity can be caused by more than one condition. In such a case, each condition causing restriction is associated with that day of restricted activity. Therefore, the number of condition days of restricted activity may exceed the number of person days of restricted activity. This relationship holds for each type of restricted-activity day.

When two or more conditions cause a day of restricted activity, the conditions may be:

- One-both (all) acute
- Two-one (some) acute and the other (some) chronic
- *Three*—both (all) chronic

The number of restricted-activity days associated with acute conditions includes groups one and two; the number of such days associated with chronic conditions includes groups two and three. The phrase "associated with" (rather than "caused by") is used to indicate that some days associated with acute or chronic conditions are not necessarily caused solely by that type of condition.

Assessed health status – The categories related to this concept result from asking the respondent, "Would you say ______ 's health is excellent, very good, good, fair, or poor?" As such, it is based on a respondent's opinion and not directly on any clinical evidence.

Terms relating to physician contacts

Physician contact – A physician contact is defined as consultation with a physician, in person or by telephone, for examination, diagnosis, treatment, or advice. (Physician contacts with hospital inpatients are not included.) The contact is considered to be a physician contact if the service is provided directly by the physician or by a nurse or other person acting under a physician's supervision. For the purpose of this definition, "physician" includes doctors of medicine and osteopathic physicians. The term "doctor" is used in the interview rather than "physician" because of popular usage. However, the concept toward which all instructions are directed is that described here.

Physician contacts for services provided on a mass basis are not included in the tabulations. A service received on a mass basis is defined as any service involving only a single test (such as a test for diabetes) or a single procedure (such as a measles inoculation) when this single service is administered identically to all persons who are at the place for this purpose. Hence obtaining a chest x ray in a tuberculosis chest x-ray trailer is not included as a physician contact. However, a special chest x ray given in a physician's office or in an outpatient clinic is considered a physician contact.

If a physician is called to a house to see more than one person, the call is considered a separate physician contact for each person about whom the physician is consulted.

A physician contact is associated with the person about whom the advice is sought even if that person does not actually see or consult the physician. For example, if a mother consults a physician about one of her children, the physician contact is ascribed to the child.

Interval since last physician contact – The interval since the last physician contact is the length of time prior to the week of interview since a physician was last consulted in person or by telephone for treatment or advice of any type whatever. A physician contact with a hospital inpatient can be counted as the last time a physician was seen even though it is not included in the "physician contact" category.

Terms relating to hospitalization

Hospital-For this survey, a hospital is defined as any institution either named in the listing of hospitals in the current American Hospital Association Guide to the Health Care Field or found on the Master Facility Inventory List maintained by the National Center for Health Statistics.

Short-stay hospital—A short-stay hospital is one in which the type of service provided is general; maternity; eye, ear, nose, and throat; children's; or osteopathic; or it may be the hospital department of an institution.

Hospital day -A hospital day is a day on which a person is confined to a hospital. It is counted as a hospital day only if the patient stays overnight. Thus a patient who enters the hospital on Monday afternoon and leaves Wednesday noon is considered to have had two hospital days.

Hospital days during the year—The number of hospital days during the year is the total number for all hospital episodes in the 12-month period prior to the interview week. For the purposes of this estimate, episodes overlapping the beginning or end of the 12-month period are subdivided so that only those days falling within the period are included.

Hospital episode – A hospital episode is any continuous period of stay of 1 night or more in a hospital as an inpatient except the period of stay of a well newborn infant. A hospital episode is recorded for a family member whenever any part of his hospital stay is included in the 12-month period prior to the interview week. Average length of stay – The average length of stay per discharged patient is computed by dividing the total number of hospital days for a specified group by the total number of discharges for that group.

Demographic terms

Age—The age recorded for each person is the age at last birthday. Age is recorded in single years and grouped in a variety of distributions depending on the purpose of the table.

Geographic region – For the purpose of classifying the population by geographic area, the States are grouped into four regions. These regions, which correspond to those used by the U.S. Bureau of the Census, are as follows:

Region States included Northeast Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, and Pennsylvania Midwest Michigan, Ohio, Illinois, Indiana, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas South Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and Texas West Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, California, Hawaii, and Alaska

Place of residence—The place of residence of a member of the civilian noninstitutionalized population is classified as inside a metropolitan statistical area (MSA) or outside an MSA. Place of residence inside an MSA is further classified as either central city or not central city.

Metropolitan statistical area – The definition and titles of MSA's are established by the U.S. Office of Management and Budget (OMB) with the advice of the Federal Committee on Metropolitan Statistical Areas. Generally speaking, an MSA consists of a county or group of counties containing at least one city (or twin cities) having a population of 50,000 or more plus adjacent counties that are metropolitan in character and are economically and socially integrated with the central city. In New England, towns and cities rather than counties are the units used in defining MSA's. There is no limit to the number of adjacent counties included in the MSA as long as they are integrated with the central city, nor is an MSA limited to a single State; boundaries may cross State lines.

Central city of an MSA—The largest city in an MSA is always a central city. One or two additional cities may be secondary central cities in the MSA on the basis of either of the following criteria:

- The additional city or cities must have a population one-third or more of that of the largest city and a minimum population of 25,000.
- The additional city or cities must have at least 250,000 inhabitants.

Not central city of an MSA-This includes all of the MSA that is not part of the central city itself.

Not in MSA-This includes all other places in the country.

The most detailed operational definitions of all of these terms are found in the *NHIS Interviewer's Manual* (18). Instructions are given in the manual on how problem cases associated with each concept are to be handled.

Appendix III Questionnaire items

NOTICE – Information contained on this form which would p will be used only for purposes stated for this study, and will no of the Public Health Service Act (42 USC 242m). Public rep- burden estimate or any other aspect of this collection of inform 721-H. 200 Independence Avenue. SW: Washington, DC 202						OMBN	lo. 0920	0-0214	Approva	I Expires Ma	rch 31, 199
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A. HOUSEHOLD COMPOSITION PAGE		
The Wheelman Alexandres of the second shifts and the transformer shifts and the second s		1
one of the persons who owns or rents this home. Enter name in REFERENCE PERSON column	or 1. n.	First name Mid, init. Age
b. What are the names of all other persons living or staying here? Enter names in columns. If "Yes,"	enter	Sex 1 2
c. I have listed (<u>read names</u>). Have I missed: Yes	No 2.	Relationship REFERENCE PERSON
- any babies or small children?		Date Year
- anyone who USUALLY lives here but is now away from home		HOSP. WORK RD 2-WK. D
- anyone else staying here?	<u> </u>	
d. Do all of the persons you have named usually live here?		Number 2L Wb 2L No Number
Probe if necessary:	mbers C2	
Does usually live somewhere else?	reason.)	LA TRA IDV TIND. ICELTRI HSTCOM
Ask for all persons beginning with column 2:		
2. What is relationship to (reference person)?		TAT TRA I DV TINJ. TOLLTRI HSTOO
3. What is — — date of birth? (Enter date and age and mark sex.)		
REFERENCE PERIODS		
2-WEEK PERIOD		<u> </u>
AI 12-MONTH DATE		
A2 ASK CONDITION LIST		
A3 Refer to ages of all related HH members.	A3	All persons 65 and over (5) Other (4)
4a. Are any of the persons in this family now on full-time active duty with the armed forces?	No (5)	
b. Who is this?		
A where does — usually live and sleep, here or somewhere else? Mark box in person's column.	40.	Living at home Not living at home
If related persons 17 and over are listed in addition to the respondent and are not present, say:		
 We would like to have all adult family members who are at home take part in the interview. Are (<u>names of persons 17 and over</u>) at home now? If "Yes," ask: Could they join us? (Allow time 	9)	
5. We would like to have all adult family members who are at home take part in the interview. Are (names of persons 17 and over) at home now? If "Yes," ask: Could they join us? (Allow time Read to respondent(s): This survey is being conducted to collect information on the petion's basith. Lytill ask about	<u>ə)</u>	·····
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 We would like to have all adult family members who are at home take part in the interview. Are (names of persons 17 and over) at home now? If ''Yes, '' ask: Could they join us? (Allow time Read to respondent(s): This survey is being conducted to collect information on the nation's health. I will ask about hospitalizations, disability, visits to doctors, illness in the family, and other health related it HOSPITAL PROBE Sa. Since (<u>13-month hospital date</u>) a year ago, was a patient in a hospital OVERNIGHT? b. How many different times did stay in any hospital overnight or longer since (<u>13-month hospital date</u>) a year ago? 	ems. 6a.	1 Yes 2 No (Merk "HOSP." box, THEN NP) (Make entry) "HOSP." box
 We would like to have all adult family members who are at home take part in the interview. Are (names of persons 17 and over) at home now? If "Yes," ask: Could they join us? (Allow time Read to respondent(s): This survey is beling conducted to collect information on the nation's health. I will ask about hospitalizations, disability, visits to doctors, illness in the family, and other health related it HOSPITAL PROBE Since (<u>13-month hospital date</u>) a year ago, was — — a patient in a hospital OVERNIGHT? How many different times did — — stay in any hospital overnight or longer since (<u>13-month hospital date</u>) a year ago? 	9) bams. 	1 Ses 2 No (Mark "HOSP." box, THEN NP) (Make entry is "HOSP." box THEN NP) Number of times
 We would like to have all adult family members who are at home take part in the interview. Are (names of persons 17 and over) at home now? If "Yes," ask: Could they join us? (Allow time Read to respondent(s): This survey is being conducted to collect information on the nation's health. I will ask about hospitalizations, disability, visits to doctors, illness in the family, and other health related it HOSPITAL PROBE Ba. Since (13-month hospital date) a year ago, was a patient in a hospital OVERNIGHT? How many different times did stay in any hospital overnight or longer since (<u>13-month hospital date</u>) a year ago? Ask for each child under one: 	9) 1 1 1 1 1 1 1 1 1 1 1 1 1	1 Ses 2 No (Mark "HOSP." box, THEN NP) (Make entry i "HOSP." box THEN NP) 1 Yes
 We would like to have all adult family members who are at home take part in the interview. Are (names of persons 17 and over) at home now? If "Yes," ask: Could they join us? (Allow time Read to respondent(s): This survey is being conducted to collect information on the nation's health. I will ask about hospitalizations, disability, visits to doctors, illness in the family, and other health related it HOSPITAL PROBE Ba. Since (<u>13-month hospital date</u>) a year ago, was — a patient in a hospital OVERNIGHT? b. How many different times did — stay in any hospital overnight or longer since (<u>13-month hospital date</u>) a year ago? Ask for each child under one: 7a. Was — born in a hospital? 	9) 1 1 1 1 1 1 1 1 1 1 1 1 1	1 Yes 2 No (Mark "HOSP." box, THEN NP) Make entry in "HOSP." box, THEN NP) 1 Yes 2 No (NP)
 We would like to have all adult family members who are at home take part in the interview. Are (names of persons 17 and over) at home now? If "Yes," ask: Could they join us? (Allow time Read to respondent(s): This survey is being conducted to collect information on the nation's health. I will ask about hospitalizations, disability, visits to doctors, illness in the family, and other health related it HOSPITAL PROBE Ba. Since (<u>13-month hospital date</u>) a year ago, was — a patient in a hospital OVERNIGHT? b. How many different times did — stay in any hospital overnight or longer since (<u>13-month hospital date</u>) a year ago? Ask for each child under one: 'a. Was — born in a hospital? Ask for mother and child: 	9) 8ma. 6a. b. 7a. 7b.	1 \[Yes 2 \[No (Mark "HOSP." box, THEN NP] Mumber of times 1 \[Yes 2 \[No (NP] 1 \[Yes (NP] \[Yes (NP]

B. LIMITATION OF ACTIVITIES PAGE		
B1 Refer to age.	B1	1 18-69(1) 2 0 Other (NP)
1. What was — — doing MOST OF THE PAST 12 MONTHS; working at a job or business, keeping house, going to school, or something else?	1.	1 Working (2) 2 Keeping house (3)
Priority if 2 or more activities reported: (1) Spent the most time doing; (2) Considers the most important.		3 🗆 Going to school (5) 4 🗋 Something else (5)
2a. Does any impairment or health problem NOW keep — from working at a job or business?	2a.	1 🗆 Yes (7) 🗌 No
b. Is —— limited in the kind OR amount of work —— can do because of any impairment or health problem	m? b.	2 🗆 Yes (7) 3 🗆 No (6)
3a. Does any impairment or health problem NOW keep — — from doing any housework at all?	3a.	4 🗆 Yes (4) 🔹 No
b. Is — — limited in the kind OR amount of housework — — can do because of any impairment or health problem?	b.	5 🛛 Yes (4) 6 💭 No (5)
4a. What (other) condition causes this? Ask if injury or operation: When did [the <u>(injury</u>) occur?/—— have the operation?] Ask if operation over 3 months ago: For what condition did —— have the operation? If progeneou/diverse or	4a.	(Enter condition in C2, THEN 4b)
Reask question 3 where limitation reported, saying: Except for —— (condition),? OR reask 4b/c.		THEN 4c)
b. Besides (<u>condition)</u> is there any other condition that causes this limitation?	ь.	☐ Yes (Reask 4a and b) ☐ No (4d)
c. Is this limitation caused by any (other) specific condition?	c.	Yes (Reask 4a and b)
Mark box if only one condition. d. Which of these conditions would you say is the MAIN cause of this limitation?	d.	Only 1 condition
5a. Does any impairment or health problem keep — — from working at a job or business?	5a.	
b. Is — — limited in the kind OR amount of work — — could do because of any impairment or health prob	lem? b.	2 (1)Yes (7) 3 (1) No
B2 <i>Refer to questions 3a and 3b.</i>	B2	1
6a. Is — — limited in ANY WAY in any activities because of an impairment or health problem?	6a.	1 Yes 2 No (NP)
b. In what way is — – limited? Record limitation, not condition.	ь.	
 7a. What (other) condition causes this? Ask if injury or operation: When did [the (injury) occur?/ have the operation?] Ask if operation over 3 months ago: For what condition did have the operation? If pregnancy/delivery or 0-3 months injury or operation - Reask question 2, 5, or 6 where limitation reported, saying: Except for (condition),? OR reask 7b/c. 	7a.	Limitation (Enter condition in C2, THEN 7b) 1 Old age (Mark "Old age" box, THEN 7c)
b. Besides (<u>condition</u>) is there any other condition that causes this limitation?	b.	Yes (Reask 7a and b)
c. Is this limitation caused by any (other) specific condition?	c.	☐ Yes (Reask 7a and b) ☐ No
Mark box if only one condition. d. Which of these conditions would you say is the MAIN cause of this limitation?	d.	Donly 1 condition
		Main cause

B. LIMITATION OF ACTIVITIES PAGE, Continued			
B3 Refer to age.	B 3	0 🗌 Under 5 (1) 1 🗍 5–17 (11)	0) 2 1 18 - 69 (NP) 3 70 and over (8)
 What was — — doing MOST OF THE PAST 12 MONTHS; working at a job or business, keeping house, going to school, or something else? 	8.	1 🗌 Working 2 🗍 Keeping ho	use
Priority if 2 or more activities reported: (1) Spent the most time doing; (2) Considers the most important.		4 [] Something	else
9a. Because of any impairment or health problem, does —— need the help of other persons with —— personal care needs, such as eating, bathing, dressing, or getting around this home?	9a.	1 [] Yes (13)	[]] No
b. Because of any impairment or health problem, does — need the help of other persons in handling — routine needs, such as everyday household chores, doing necessary business, shopping, or getting around for other purposes?	Ь.	2 🗌 Yes (13)	3 [] No <i>(12)</i>
10a. Is — — able to take part AT ALL in the usual kinds of play activities done by most children — — age?	10a.	Tes	o 🗋 No (13)
b. is —— limited in the kind OR amount of play activities —— can do because of any impairment or health problem?	Ъ.	1 🗆 Yes (13)	2 🗌 No (12)
11a. Does any impairment or health problem NOW keep — — from attending school?	11a.	1 🛛 Yes (13)	
b. Does attend a special school or special classes because of any impairment or health problem?	ь.	2 🗋 Yes (13)	[]No
c. Does — — need to attend a special school or special classes because of any impairment or health problem?	Ċ.	3 🗌 Yes (13)	🗆 No
d. Is —— limited in school attendance because of —— health?	ā.	4 🗌 Yes (13)	5 🗍 No
12a. Is —— limited in ANY WAY in any activities because of an impairment or health problem?	12a.	1 🗋 Yes	2 [] No (NP)
b. In what way is —— limited? Record limitation, not condition.	Б.		
		Li	nitation
13a. What (other) condition causes this? Ask if injury or operation: When did [the <u>(injury</u>) occur?/—— have the operation?] Ask if operation over 3 months ago: For what condition did —— have the operation? If preparency/defined or 0 — 3 months injury or constrain — have the operation?	13a.	(Enter condition	in C2, THEN 13b) ark ''Old age'' box.
Reask question where limitation reported, saying: Except for — — (<u>condition</u>),? OR reask 13b/c.		THEN 13cl	
b. Besides (<u>condition</u>) is there any other condition that causes this limitation?	Ъ.	Yes (Reask	13a and b)
c. Is this limitation caused by any (other) specific condition?	- <u>-</u> .	Yes (Reask	13a and b)
Mark box if only one condition.	⁻ ā.	Only 1 con	dition
d. Which of these conditions would you say is the MAIN cause of this limitation?		Mai	n cause
FOOTNOTES	<u>اا</u>		
	<u> </u>	· · · · · · · · · · · · · · · · · · ·	

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	B. LIMITATION OF ACTIVITIES PAGE, Continued		
B4	Refer to age.	B4	0 ☐ Under 5 (NP) 2 ☐ 60 69 (14 1 ☐ 5—59 (85) 3 ☐ 70 and over (NP)
B 5	Refer to ''Old age'' and ''LA'' boxes. Mark first appropriate box.	B 5	 "Old age" box marked (14) Entry in "LA" box (14) Other (NP)
14a. Be	cause of any impairment or health problem, does —— need the help of other persons with – personal care needs, such as eating, bathing, dressing, or getting around this home?	14a.	1 🖸 Yes (15) [] No
if u b. Be get	nder 18, skip to next person; otherwise ask: cause of any impairment or health problem, does — — need the help of other persons in handling - routine needs, such as everyday household chores, doing necessary business, shopping, or ting around for other purposes?		2] Yes 3 No (NP)
15a. Wi As As If p	nat (other) condition causes this? k if injury or operation: When did [the <u>linjury</u>] occur?/—— have the operation?] k if operation over 3 months ago: For what condition did —— have the operation? regnancy/delivery or 0—3 months injury or operation — Reask question 14 where limitation reported, saying: Except for —— (<u>condition</u>),? OR reask 15b/c.	15a.	(Enter condition in C2, THEN 15b) 1 Dold age (Mark "Old age" box, THEN 15c)
b. Be	sides (<u>condition</u>) is there any other condition that causes this limitation?		☐ Yes (Reask 15a and b) ☐ No (15d)
c. 1s	this limitation caused by any (other) specific condition?		Yes (Reask 15a and b)
Ma d. Wi	rk box if only one condition. Nich of these conditions would you say is the MAIN cause of this limitation?	d.	Only 1 condition
			Main cause
	18801 (7.2.1.40)		

Hai	D. RESTRICT	ED ACTIVITY PA	AGE PERSON 1	D2	Refer to 2b and 3b. ☐ No days in 2b or 3b (6) ☐ 1 or more days in 2b or 3b	, (5)
{Th beg	e next questions re inning Monday, (<u>d</u>	efer to the 2 weeks ou late) and ending this p	utlined in red on that calendar, east Sunday <u>(dat</u> ej.)	5. Or [w	how many of the <u>(number in 2</u> ork/school] did — stay in be	? <u>b or 3b</u>) days missed from d more than half of the day
D1	Refer to age.	□5-17 /3I			cause of liness of injuryr	No. of days
1a. DU bui	RING THOSE 2 1	WEEKS, did —— we	ork at any time at a job or b house? (Include unpaid	Re 6a. (N	fer to 2b, 3b, and 4b. ot counting the day(s)	ised from work ised from school),
wo	rk in the family [i 1 □ Yes (Mark ''	farm/business].) 'Wa'' box, THEN 2)	2 🗆 N o	W. do	t (an as there any (OTHER) time durin wn on the things — — usually do	a) in bea ng those 2 weeks that cut bes because of iliness or injury?
b. Eve	n though — — di	d not work during t	hose 2 weeks, did ——		Yes	00□No <i>(D3)</i>
	1 □ Yes (Mark "	'Wb'' box, THEN 2)	2 🗆 No (4)	b. (A	gain, not counting the day(s)	[missed from work missed from school), (and) in bed
2a. Du or l	ring those 2 week business because	ks, did — — miss an e of illness or injury	y time from a job 7	Du m	ring that period, how many (OT ore than half of the day because	HER) days did —— cut down for of illness or injury?
	O Yes	00 🗆 No (4)			00 🗆 None	No. of cut-down days
b. Du tha	b. During that 2-week period, how many days did — — miss more than half of the day from — — job or business because of			Refer to 2–6.		
ilin	ess or injury?			D3	□ No days in 2—6 (Mark ''N □ 1 or more days in 2—6 (M	loʻ' in RD, THEN NP) lark ''Yes'' in RD, THEN 7)
	00 🗆 None (4)		(4)	Re	fer to 2b, 3b, 4b, and 6b.	rmiss work
3a. Du of I	ring those 2 week liness or injury?	s, did —— miss any	time from school because	7a. W	hat (other) condition caused -	- — to miss school during those {or} stay in bed (or) cut down
	Yes	00 🗆 No (4)		-		rmies work 1
b. Du tha	ring that 2-week In half of the day	period, how many from school becau	days did — — miss more se of illness or injury?	b. DI	d any other condition cause –	- to miss school during that (or) stay in bed period? (or) cut down
			۹		1 🛛 Yes. (Reask 7a and b)	2 🗆 N o
	00 🖸 None	No. of school-loss days	j	FOOTN	OTES	
4a. Du	ring those 2 weeks	i, did — — stay in bed i	because of illness or injury?	1		
	🗆 Yes	00 🗆 No <i>(6)</i>				
b. Du tha	ring that 2-week p in half of the day t	beriod, how many da because of lliness or	ys did —— stay in bed more Injury?			
	₀₀□None (6)	No. of bed days) (D2)			

E. 2-WEEK DOCTOR VISITS PROBE PAGE		
ad to respondent(s):		
ese next questions are about health care received during the 2 weeks outlined in red on that calend	ar.	
Refer to age.	E1	Under 14 (1b)
ring those 2 weeks, how many times did — — see or talk to a medical doctor? {Include all type doctors, such as dermatologists, psychiatrists, and ophthalmologists, as well as general actitioners and osteopaths.} (Do not count times while an overnight patient in a hospital.)	and b.	00 🗆 None
ring those 2 weeks, how many times did anyone see or talk to a medical doctor about ——? o not count times while an overnight patient in a hospital.)		Number of times
esides the time(s) you just told me about) During those 2 weeks, did anyone in the family recei alth care at home or go to a doctor's office, clinic, hospital or some other place? Include care om a nurse or anyone working with or for a medical doctor. Do not count times while an ownicht sections in a boggied	ve	
ernight patient in a nospital. 🗌 Yes 🗍 No (3	a)	l
ho received this care? Mark "DR Visit" box in person's column.	2b.	
nyone else? 🗌 Yes (Reask 2b and c) 🗌 No		
k for each person with "DR Visit" in 2b:		+
ow many times did —— receive this care during that period?		Alumbas of simos
esides the time(s) you already total me about) During those 2 weeks, did anyone in the family it any medical advice, prescriptions or test results over the PHONE from a doctor, nurse, or yone working with or for a medical doctor? ho was the phone call about? Mark "Phone call" box in person's column.	2) 3b.	
are there any calls about anyone else?		
sk for each person with "Phone call" in 3b: bw many telephone calls were made about?	d.	Number of calls
Add numbers in 1, 2d, and 3d for each person. Record total number of visits and calls in ''2-WK. D	‴ box in it	tem C1.
IOTES		
	ad to respondent(s): new product (s): new product (s):	ad to respondent(s): integer next questions are about health care received during the 2 weeks outlined in red on that calendar. Refer to age. E1 uring those 2 weeks, how many times did — see or talk to a medical doctor? {Include all types doctors, such as dermatologists, psychiatrists, and ophthalmologists, as well as general actitioners and esteopeths. } (Do not count times while an overnight patient in a hospital.) Ia. aring those 2 weeks, how many times did anyone see or talk to a medical doctor? {Include all types doctors, such as dermatologists, psychiatrists, and ophthalmologists, as well as general actitioners and esteopeths. } (Do not count times while an overnight patient in a hospital.) Ia. esides the time(s) you just told me about) During those 2 weeks, did anyone in the family receive and the received this care? Mark "DR Visit" box in person's column. Pres ho received this care? Mark "DR Visit" box in person's column. Pres nyone else? Yes (Reask 2b and c) No esides the time(s) you already told me about) During those 2 weeks, did anyone in the family to any motical advice, prescriptions or test results over the PHONE from a doctor, nurse, or hyone working with or for a medical doctor? Yes nyone else? Yes (Reask 2b and c) No esides the time(s) you already told me about) During those 2 weeks, did anyone in the family to any motical advice, prescriptions or test results over the PHONE from a doctor, nurse, or hyone working with or for a medical doctor? Yes <t< td=""></t<>

F. 2-WEEK DOCTOR VISITS PAGE	DR	/ISIT 1
Refer to C1, ''2-WK. DV'' box.	PE	RSON NUMBER
F1 Refer to age.	F1	Under 14 (1b) 14 and over (1a)
 1a. On what (other) date(s) during those 2 weeks didsee or talk to a medical doctor, nurse, or doctor's assistant?	1a. and b. c.	Month Date OR T777 Last week 8888 Week before 1 Ves (Ress Is or b and c) 2 No (Akt 2 - 6 for each visit)
2. Where did — — receive health care on (<u>date in 1</u>), at a doctor's office, clinic, hospital, some other place, or was this a telephone call? If doctor's office: Was this office in a hospital? If hospital: Was it the outpatient clinic or the emergency room? If clinic: Was it a hospital outpatient clinic, a company clinic, a public health clinic, or some other kind of clinic? If lab: Was this lab in a hospital? What was done during this visit? (Footnote)	2.	O1 Telephone Hospital: O2 Home 08 0.P. clinic O3 Doctor's office 09 Emergency room O4 Co, or Ind. clinic 10 Doctor's office O5 Other clinic 11 Lab O6 Lab 12 Overnight patient (6) O7 Other (Specify) 88 Other (Specify)
Ask 3b if under 14. 3a. Did — — actually talk to a medical doctor? b. Did anyone actually talk to a medical doctor about — — ? c. What type of medical person or assistant was talked to?	3a. and b. c.	1 ☐ Yes (3f) 8 ☐ DK if M.D. (3c) 2 ☐ No (3c) 9 ☐ DK who was seen (3f)
 d. Does the (entry in 3c) work with or for ONE doctor or MORE than one doctor? e. For this [visit/call] what kind of doctor was the (entry in 3c) working with or for - a general practitioner or a specialist? f. Is that doctor a general practitioner or a specialist? 	d. e. and f.	Type 99 D DK 1 Done (3() 2 More 3 None (4) 9 D DK 1 GP (4) 2 Specialist (3g) 9 D DK (4)
g. What kind of specialist?	g.	Kind of specialist
Ask 4b if under 14. 4a. For what condition did —— see or talk to the [doctor/ <u>(entry in 3c)</u>] on <u>(date in 1)</u> ? Mark first appropriate box. b. For what condition did anyone see or talk to the [doctor/ <u>(entry in 3c)</u>] about —— on <u>(date in 1)</u> ? Mark first appropriate box.	4a. and b.	1 ☐ Condition (<i>Item C2, THEN 4g</i>) 2 ☐ Pregnancy (<i>4e</i>) 3 ☐ Test(s) or examination (<i>4c</i>) 8 ☐ Other (<i>Specify</i>) ₇ _
 c. Was a condition found as a result of the [test(s)/examination]? d. Was this [test/examination] because of a specific condition — had? e. During the past 2 weeks was — sick because of her pregnancy? f. What was the matter? 	c. d. e. f.	[4g] Yes (4h) Yes (4h) Yes (4h) Yes (4h) No (4g) (item C2, THEN 4a)
g. During this [visit/call] was the [doctor <i>l (<u>entry in 3</u>c)</i>] talked to about any (other) condition? h. What was the condition?	9. h.	□ Yes □ Pregnancy (4e) □ Condition (16) (Item C2, THEN 4g)
Mark box if "Telephone" in 2. 5a. Did — — have any kind of surgery or operation during this visit, including bone settings and stitches?	5a.	0 Telephone in 2 (Next 1 Yes 2 No (6) Dr. visit)
b. What was the name of the surgery or operation? If name of operation not known, describe what was done.	ь.	(1)(2)
c. Was there any other surgery or operation during this visit?	c. [Yes (Reask 5b and c)
Go to next DV if "Home" in 2. 6. In what city (town), county, and State is the <u>(place in 2)</u> located?	6.	City/County/

G. HEALTH INDICATOR PAGE		
1a. During the 2-week period outlined in red on that calendar, has anyone in the family had an injury from an accident or other cause that you have not yet told me about? Yes No (2)		
b. Who was this? Mark "Injury" box in person's column.	<u>1Б.</u>	□ Injury
c. What was — — injury? Enter injury(ies) in person's column.	 c.	
d. Did anyone have any other injuries during that period?		
Yes (Reask 1b, c, and d)		
Ask for each injury in 1c: e. As a result of the (<i>injury in 1c</i>) did [——/anyone] see or talk to a medical doctor or assistant (about ——) or did —— cut down on —— usual activities for more than half of a day?	е.	☐ Yes (Enter injury in C2, THEN 1e for next injury) ☐ No (1e for next injury)
 During the past 12 months, {that is, since (12-month date) a year ago} ABOUT how many days did illness or injury keep —— in bed more than half of the day? (Include days while an overnight patient in a hospital.) 	2.	000 None
3a. During the past 12 months, ABOUT how many times did [/anyone] see or talk to a medical doctor or assistant (about)? (Do not count doctors seen while an overnight patient in a hospital.) (Include the (number in 2-WK DV box) visit(s) you already told me about.)	3a.	000 None (3b) 000 Only when overnight patient in hospitel (NP)
b. About how long has it been since [——/anyone] last saw or talked to a medical doctor or assistant (about ——)? Include doctors seen while a patient in a hospital.	ь.	No. of visits 1 Interview week (Reask 3b) 2 Less than 1 yr. (Reask 3a) 3 I yr., less than 2 yrs. 4 I 2 yrs., less than 5 yrs. 5 I 5 yrs. or more 0 Never
4. Would you say — — health in general is excellent, very good, good, fair, or poor?	4.	1 🗋 Excellent 4 💭 Fair 2 🗌 Very good 5 💭 Poor 3 🗍 Good
Mark box if under 18. 5a. About how tall is — — without shoes?	5a.	Under 18 (NP)
b. About how much does —— weigh without shoes?	ь.	Pounds
FOOTNOTES		

		H. CONDI	TION LISTS	1 AND 2	
Re No yo	ad to respondent(s) and ask li ow I am going to read a list o u have mentioned them befo	st specified in A2: of medical conditions. Tell me il pre.	f anyone in the	family has had any of these	conditions, even if
	 1a. Does anyone in the fa If 'Yes,'' ask 1b and c. b. Who is this? 	mily <u>{read names</u> } NOW HAVE	-	2a. Does anyone in the fai If 'Yes,'' ask 2b and c.	mily <u>{read names</u> } NOW HAVE —
	c. Does anyone else NO Enter condition and lett	W have — er in appropriate person's column		b. Who is this?	V have
1	A. PERMANENT stiffne foot, leg, fingers, arm stiffness — joints will	ss or any deformity of the , or back? (Permanent not move at all.)	2	Enter condition and lette	er in appropriate person's column.
	B. Paralysis of any kindi			A-L are conditions aff	ecting {Vision Speech }
	family have /f 'Yes	2 MONTHS, did anyone in the ," ask 1e and f.		Conditions M—AA are i	mpairments.
	Who was this? DURING THE PAST 12			A. Deafness in one or both ears?	Reask 2a O.A missing joint?
	Enter condition and lett	er in appropriate person's column	,	B. Any other trouble hearing with one or both ears?	P.A missing breast, kidney, or lung?
	M-W are conditions and C. Arthritis of any kind	ffecting the skin. Reask 1d	r	C. Tinnitus or ringing in the ears?	O. Palsy or cerebral palsy? (ser'a-bral)
	or rheumatism?	M . A tumor, cyst, or growth of the skin?		D. Blindness in one or both	- R. Paralysis of any kind? S. Curvature of the spine?
	E. Lumbago?	N. Skin cancer? O. Eczema or Psoriasis?		E. Cataracts?	T.REPEATED trouble with neck, back, or spine?
	F. Sciatica?	(so-rys'uh-sis) P. TROUBLE with dry or itching skin?		G. Color blindness?	U.Any TROUBLE with failen arches or flatfeet? V.A clubfoot?
	G. A bone cyst or bone spur?	Q. TROUBLE with acne?		other condition of the retina?	W.A trick knee?
	H. Any other disease of the bone or cartilage?	R. A skin ulcer?		I. Any other trouble seeing with one or both eyes EVEN when wearing glasses?	X. PERMANENT stiffness or any deformity of the foot, leg, or back? (Permanent stiffness —
	1. A slipped or ruptured disc?	S. Any kind of skin allergy?		J. A Cleft palate or harelip? K. Stammering or stuttering?	joints will not move at all.)
	J. REPEATED trouble with neck, back, or spine?	T. Dermatitis or any other skin trouble?		L. Any other speech defect?	or any deformity of the fingers, hand, or arm?
	K. Bursitis?	V. TROUBLE with ingrown toenails or fingernails? V. TROUBLE with bunions,		M. Loss of taste or smell which has lasted 3 months or more?	Z. Mental retardation? AA.Any condition caused by an accident or injury
	L. Any disease of the muscles or tendons?	W. Any disease of the hair or scalp?		N. A missing finger, hand, or arm; toe, foot, or leg?	which happened more than 3 months ago? If "Yes," ask: What is the condition?

FORM HIS-1 (1989) (3-21-69)

Rea	ad to respondent(s) and ask list sp w I am going to read a list of m	pecified in A2. redical conditions. Tell me if anyo	ne in the f	amily has had any of these	conditions, even if			
<u>yo</u>	have mentioned them before.	(read names) EVER had —		6a. DURING THE PAST 1	2 MONTHS, did anyone in the family			
	K "Vee " ack 5b and a			{r <u>ead names</u> } have -				
1	in ves, ask ob and c.			If "Yes," ask 6b and c				
5	b. Who was this?	_	6	b. Who was this?				
-	c. Has anyone else EVER had	d	_	c. DURING THE PAST 12 MONTHS, did anyone else have				
	Enter condition and letter in appropriate person's column. Conditions affecting the heart and circulatory system.			Enter condition and lett	er in appropriate person's column.			
				Make no entry in item C2 for cold; flu; red, sore, or strep throat; or "virus" even if reported in this list.				
	A. Rheumatic fever?	G. A stroke or a cerebrovascular	-	Conditions affecting the respiratory system.				
	B. Rheumatic heart disease?	accident? (ser'a-bro vas ku-lar)		A. Bronchitis?	K. A missing lung?			
	C. Hardening of the arteries	H. A hemorrhage of the		B. Asthma?	L. Lung cancer?			
	or arterioscierosis/	brain?		C. Hay fever?	M.Emphysema?			
}	D. Congenital heart disease?	I. Angina pectoris? (pek'to-ris)		D. Sinus trouble?	N. Pleurisy?			
	E. Coronary heart disease?	J. A myocardial infarction?		E. A nasal polyp?	O. Tuberculosis?			
	F. Hypertension, sometimes called high blood pressure?	K. Any other heart attack?		F. A deflected or deviated nasal septum?	P. Any other work- related respiratory condition, such as			
	5d. DURING THE PAST 12 MONTHS, did anyone in the family have — If "Yes," ask 5e and f.			G. *Tonsilitits or enlarge- ment of the tonsils or adenoids?	silicosis, asbestosis, or			
				H. *Laryngitis?	Q. During the past 12			
	e. who was this?			I A tumor or growth of	months did anyone			
	f. DURING THE PAST 12 MONTHS, did anyone else have — Enter condition and letter in appropriate person's column.			the throat, larynx, or trachea?	any other respiratory, lung, or pulmonary			
	Conditions affecting the heat	rt and circulatory system.		J. A tumor or growth of the bronchial tube	condition? // "Yes," ask: Who was this? What was the condi- tion? Enter in item C2,			
	L. Damaged heart valves?	Q. Any blood clots?		*If reported in this list only	, ask:			
	M. Tachycardia or rapid heart?	R. Varicose veins?		1. How many times did – 12 months?	- — have <u>(condition</u>) in the past			
	N. A heart murmur?	N. A heart murmur? S. Hemorrholds or piles?			condition in item C2.			
	O. Any other heart trouble?	T. Phlebitis or thrombophlebitis?		2. How long did it last? If 1 month or longer, enter in item C2				
	P. An aneurysm? (an yoo-rizm) U. Any other condition affecting blood circulation?			If tonsils or adenoids we enter the condition cause	re removed during past 12 months, ing removal in item C2.			

	J. HOSPITAL PAGE	ноз	PITAL STAY 1		
1.	Refer to C1, "HOSP." box.	1.	PERSON	UMBER_	
2.	You said earlier that —— was a patient in the hospital since <u>(13-month hospital date)</u> a year ago. On what date did —— enter the hospital ([the last time/the time before that])?	2.	Month	Date	Year 19
	Record each entry date in a separate Hospital Stay column.				
3.	How many nights was — — in the hospital?	3.	0000 None i	(Next HS) ghts	
4.	For what condition did —enter the hospital? • For delivery ask: • For newborn ask: • For initial "No condition" ask: Was this a normal delivery? Was the baby normal at birth? • For initial "No condition" ask: If "No," ask: If "No," ask: • For tests, ask: What was the matter? What was the matter? • What was the matter? What was the matter? What was the matter? What was the tests?	4.	1 🗌 Norma 2 🗌 Norma 3 🗌 No col 🗍 Condit	I delivery I at birth I at birth Mition I an I an I an I an I an I an I an I a	
J	Refer to questions 2, 3, and 2-week reference period.	J1	At leas referer in C2, No nigi	at one night in 2-v nce period (Enter THEN 5) nts in 2-week refer	veek condition ence period (5)
5a.	Did — — have any kind of surgery or operation during this stay in the hospital, including bone settings and stitches?	5a.	1 🗆 Yes		2 🗌 No <i>(6)</i>
b.	b. What was the name of the surgery or operation? If name of operation not known, describe what was done.				
c.	Was there any other surgery or operation during this stay?	c.	Yes (A	eask 5b and cl	□ No
6.	What is the name and address of this hospital?	6.	Name		
			Number and stre	et	
			City or County		State
FOO	TNOTES				

	CONDITION 1	PERSON NO		Ask 3g if there is an impai	rment (refer to C	Sard CP2) or any of the
1. N	ame of condition			Abacess Ache (except head or ear)	Damage Growth	Palsy Paratvala
N in	fark "2-wk. ref. pd." box without asking if "D C2 as source.	V'' or ''HS''		Bleeding (except menstrual) Blood clot	Hemorrhage Infection	Rupture Sore(ness)
2. W	/hen did [— —/anyone] last see or talk to a d bout — — (<u>condition</u>)? 	loctor or assistant		Cancer	Neuralgia	Suminess) Tumor
0 1 2 3	□ Interview week (<i>Reask 2</i>) 5 □ 2 yrs. □ 2-wk, ref. pd. 6 □ 5 yrs. □ Over 2 weeks, less than 6 mos. 7 □ Dr. ss 6 mos. 8 □ DK if	, less than 5 yrs. or more len, DK when		Gramps (except menstrual) Cyst	Neuritis Páin	Ulcer Varicose veine Weak(ness)
4	□ 1 yr., less then 2 yrs. 9 □ Dr. n	sver seen } (3b)	g.	What part of the body is	affected?	(Crociful
3a. (E	erlier you told me about — <u>(condition</u>) Did the all the (condition) by a more technical or specific	doctor or assistant name?		Show the following detail	:	(Specity)
1	☐ Yes 2 ☐ No 9 [Эок		Head Back/spine/vertebrae	• • • • • • • • • • • • • • • • •	skull, scalp, face
A it	sk 3b if ''Yes'' in 3a, otherwise transcribe con em 1 without asking:	dition name from		Side		inner or outer; left, right, or both
b. V	/hat did he or she call it?(S.	pecify)		Arm shoul	der, upper, elbow,	lower or wrist; left, right, or both
3	□ Color Blindness (NC) 2 □ Cencer (3e) □ Normal pregnancy, normal delivery, vasectomy 4 □ Old age (NC) 1 S0 8 □ Other (3c)			Hand	entire hand (hip, upper, knee, l entire foct, arcl	or fingers only; left, right, or both ower, or ankle; left, right, or both h, or toes only; left, right, or both
c. W	/hat was the cause of —— (<u>condition in 3b</u>)?	(Specify) 7		Except for eyes, ears, or in following entries in 3b—f:	nternal organs, a	sk 3h if there are any of the
			Ι.	Infection Sore	Soreness	
1 N	flark box if accident or injury. 0	ent/injury <i>(5)</i> ent or injury?		sore/soreness] — the ski	in, muscis, bor	s affected by the [infection/ ie, or some other part?
Ā	sk 3e if the condition name in 3b includes any	of the following words:	L	(Specify)		
	liment Cancer Disease Prol	Siem		Ask if there are any of the Tumor Cyst	following entrie Growth	s in 3b—f:
	nemia Condition Disorder Rup sthma Cyst Growth Trou	ture ible	4.	is this [tumor/cyst/grow	th] mailgnant (or benign?
	ttack Defect Measles Tun ad Uice	lor Pr		1 🗌 Malignant 2	Benign	э⊡ р к
•. W	what kind of (condition in 3b) is it?	(Specify)	5	a. When was —— (<u>condi</u> first noticed? b. When did —— <u>(name</u>)	ition in 3b/3f) of injury in 3b)?	1 2-wk. ref. pd. 2 0ver 2 weeks to 3 months 3 0ver 3 months to 1 yeer 4 0ver 1 yeer to 5 years
	iow does the lanergy/stroke] NOW affect ~	r (Spechy) 7		Ask probes as necessary:		5 ڶ Over 5 years
-				(Was it on or since (first	date of 2-week i	ref. period)
-		and the second second		(Was it less than 3 mont	hs or more tha	n 3 months ago?)
F e e	or Stroke, fill remainder of this condition page ffect. Enter in item C2 and complete a separate ach additional present effect.	for the first present e condition page for		(Was it less than 1 year ((Was it less than 5 years	or more than 1 or more than 5	year ago?) 5 years ago?)
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Refer to RD and C2. 1 "Yes" in "R0" box AND more than 1 condition in C2 (6) G. During the 2 weeks outlined in red on that calendar, did (condition) cause to cut down on the things usually does? Yes No (K2) b. During that period, how many days did cut down for more than half of the day? oo None (K2) Obscience Days 7. During those 2 weeks, how many days did stay in bed for more than half of the day because of this condition? oo None 00 None 01 None 02 None 03 None 04 None 05 None 06 None 07	 13. Is this (condition in 3b) the result of the same accident you already told me about? Yes (Record condition page number where accident questions first completed.) Page No. 14. Where did the accident happen? 14. thome (adjacent premises) 3) Street and highway (includes roadway and public aidewalk) 4) Farm 6) Industrial place (includes premises) 7) Place of recreation and sports, except at school 7) Place of recreation and sports, except at school
half of the day from job or business because of this condition? oo None Days Ask if age 5-17: 9. During those 2 weeks, how many days did miss more than build of the day from school because of the ace dialog?	Mark box if under 18. Under 18 (16) 15a. Was
None	b. Was — in the Armed Forces when the accident happened? 2 Yes (16) No c. Was — at work at — job or business when the accident happened? 3 Yes 4 No 16a. Was a car, truck, bus, or other motor vahicle involved in the accident
 10. About how many days since (<u>12-month date</u>) a year ago, has this condition kept — in bed more than half of the day? (Include days while an overnight patient in a hospital.) 000 None Days 11. Was was hospitalized for (condition in 3bi2 	In any way? 1 Yes 2 № (17) b. Was more than one vehicle involved? 1 Yes 20 № 1 Yes 20 №
1 Yes 2 No K3 Image: Missing extremity or organ (K4) Other (12)	 Yes 2 No 17a. At the time of the accident what part of the body was hurt? What kind of injury was it? Anything else?
12a. Does —— still have this condition? 1 [] Yes (K4) [] No b. Is this condition completely cured or is it under control? 2 [] Cured 8 [] Other (Specify) —	Pertie) of body * Kind of injury
3 Under control (K4) C. About how long did have this condition before it was cured? 000 Less than 1 month OR 11 Months 2 Years	Ask if box 3, 4, or 5 marked in Q.5: b. What part of the body is affected now? How is —— (part of body) affected? Is —— affected in any other way? Partie) of body * Present effects **
d. Was this condition present at any time during the past 12 months? 1 Yes 2 No	
K4 0 Not an accident/injury (NC) 1 ☐ First accident/injury for this person (14) 8 ☐ Other (13)	 Enter part of body in same detail as for 3g. If multiple present effects, enter in C2 each one that is not the same as 3b or C2 and complete a separate condition page for it.

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