

Home Care

for Persons 55 Years and Over

United States - July 1966 - June 1968

Statistics on persons 55 years and over receiving care at home by selected demographic characteristics, type of care received, type of condition, duration of care, and providers of care. Based on data collected in household interviews during the period July 1966-June 1968.

DHEW Publication No. (HSM) 72-1062

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service

Health Services and Mental Health Administration
National Center for Health Statistics
Rockville, Md. July 1972



Vital and Health Statistics - Series 10-No. 73

NATIONAL CENTER FOR HEALTH STATISTICS

THEODORE D. WOOLSEY, *Director*

PHILIP S. LAWRENCE, Sc.D., *Associate Director*

OSWALD K. SAGEN, Ph.D., *Assistant Director for Health Statistics Development*

WALT R. SIMMONS, M.A., *Assistant Director for Research and Scientific Development*

JAMES E. KELLY, D.D.S., *Dental Advisor*

EDWARD E. MINTY, *Executive Officer*

ALICE HAYWOOD, *Information Officer*

DIVISION OF HEALTH INTERVIEW STATISTICS

ELIJAH L. WHITE, *Director*

ROBERT R. FUCHSBERG, *Deputy Director*

RONALD W. WILSON, *Chief, Analysis and Reports Branch*

KENNETH W. HAASE, *Chief, Survey Methods Branch*

COOPERATION OF THE BUREAU OF THE CENSUS

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 Health Interview Survey, the Bureau of the Census, under a contractual arrangement, participates in most aspects of survey planning, selects the sample, and collects the data.

Vital and Health Statistics-Series 10-No. 73

DHEW Publication No. (HSM) 72-1062

Library of Congress Catalog Card Number 74-190004

CONTENTS

	Page
Introduction -----	1
Source and Limitations of Data-----	2
Description of the Population by Selected Characteristics-----	3
Characteristics of Care Received at Home-----	6
Type of Care Provided-----	6
Condition for Which Care Was Provided-----	7
Duration of Care-----	7
Person Providing Care-----	8
References -----	11
List of Detailed Tables-----	13
Appendix I. Technical Notes on Methods-----	27
Background of This Report-----	27
Statistical Design of the Health Interview Survey-----	27
General Qualifications-----	28
Reliability of Estimates-----	29
Guide to Use of Relative Standard Error Charts-----	31
Appendix II. Definitions of Certain Terms Used in This Report-----	34
Terms Relating to Home Care-----	34
Terms Relating to Morbidity Conditions-----	35
Terms Relating to Disability-----	35
Demographic, Social, and Economic Terms-----	36
Appendix III. Home Care Probe Questions and Recording Form-----	38

SYMBOLS

Data not available-----	---
Category not applicable-----	...
Quantity zero-----	-
Quantity more than 0 but less than 0.05----	0.0
Figure does not meet standards of reliability or precision (more than 30 percent relative standard error)-----	*

HOME CARE FOR PERSONS 55 YEARS AND OVER

Mary H. Wilder, *Division of Health Interview Statistics*

INTRODUCTION

Based on data collected in the Health Interview Survey during July 1966-June 1968, an annual estimate of 1,747,000 persons 55 years and over received health related home care. Care received at home is defined as any personal assistance or personal services received at home as a result of illness, injury, impairment, or advanced age. The person providing the care may have received a fee for his service or the service may have been free, such as that provided by related household members. Care provided by a physician is excluded from this definition of home care. Care by all other persons, however, is included whether or not they are professional health workers. Data on all types of medical care provided by physicians are collected in the Health Interview Survey and are also published in Series 10 of the *Vital and Health Statistics* reports. The amount of home care received by the persons discussed varied from partial or intermittent care to full-time care for those who are bedridden. Types of care received are classified as personal, medically related, and other.

Persons receiving care in these categories represent 4.9 percent of the civilian, noninstitutional population who were 55 years or over during the interview period. Proportionately twice as many persons in this age group received care at home during this period than when home care data were first collected for the Health Interview Survey. The first report¹ primarily compared the amount of home care received during July 1958 to June 1959 by all age groups for related demographic and health characteristics. Since

it was indicated that only 0.2 percent of the population under 55 received home care, it was decided to restrict the data collection for this survey to persons 55 years and over.

Care provided by physical therapists, social workers, etc., was excluded from the previous report. Data from that report are not comparable to the data included in this publication since care provided by these professional health personnel has been included in the concept of providing home care.

About 86.1 percent of the persons receiving home care reported receiving personal care such as help in moving about, dressing, bathing, and eating. Approximately 26.6 percent received medically related care which includes changing bandages, injections, and other medical treatments. Any types of health related home care not included in the two general categories were classified as "other care" and accounted for about 64.4 percent of the persons reporting home care.

The proportion of the population with home care increased as the population became older. This ranged from 2.1 percent of persons 55-64 years of age to 13.4 percent of persons 75 years and over. Proportionately more females received care than did males. More persons with annual family incomes of less than \$5,000 received home care than did persons with more income. Relatively fewer white persons received home care than did persons in other color groups.

The main condition for which personal care was provided was arthritis and rheumatism. Diabetes was the main condition for which medical treatment was received.

The majority of care was provided by family members residing in the household (79.8 percent). Registered nurses provided care to 7.0 percent of the home care recipients. Other types of persons provided care at home to one-third of the population receiving care.

During the period of collection of data shown in this report Medicare legislation was enacted which provided some payment for home nursing care. Data collected in both years were affected by this legislation, but in different ways. Approximately 5.1 percent of the population 55 years and over received home care in fiscal year 1967 compared to 4.8 percent of the same age population for fiscal year 1968. The extended care feature of medical coverage was initiated January 1, 1967, which means that only half of fiscal year 1967 was affected by the advent of Medicare whereas all of fiscal year 1968 included some care financed by Medicare. The proportion of persons using Medicare was greater at the beginning of the coverage than at any other time. During calendar year 1967, 45 percent² of the Medicare enrollees were eligible to receive Medicare benefits under either or both parts of the program compared to 33 percent³ in calendar year 1968. This use of Medicare during each of these 2 years may be sufficient to explain the proportional decrease in home care for each of the two age groups during the 2 years of collection shown below:

	July 1966- June 1967	July 1967- June 1968
	Percent receiving home care	
65-74 years	4.6	4.1
75 years and over	13.5	13.4

Further comparison of the data for each of these years will not be included in the report because the size of the estimates by the individual years is generally not statistically reliable.

The age group 55-64 years was included in the collection of home care data to provide some indication of persons requiring care at home who would shortly become eligible for Medicare coverage.

SOURCE AND LIMITATIONS OF DATA

The information presented in this publication is derived from data collected in household interviews in the nationwide Health Interview Survey, a continuing program of the National Center for Health Statistics. These interviews were conducted in a probability sample of the civilian, non-institutional population of the United States. The sample is so designed that interviews are conducted each week in a representative sample of the Nation's households by trained personnel of the U.S. Bureau of the Census. During the 24 months from July 1966-June 1968, the cumulative weekly samples included some 84,000 households containing about 268,000 persons living at the time of the interview.

Because the survey excludes the institutionalized population and many persons aged 55 years and older are residents of nursing homes and other long-term institutions, statistics for elderly persons who require home care are considerably underestimated for the total population in this age group. Thus other sources of data must be used to supplement Health Interview Survey data. For example, the records maintained in resident institutions are used in the Division of Health Resources Statistics to obtain sample data which will describe the health and health-care status of institutionalized persons.⁴ Certain types of estimates are also reduced by the exclusion of information for persons who died prior to the household interview.

A brief description of the design of the survey, the methods of estimation, and the general qualifications of data obtained from surveys is presented in appendix I. The estimates shown in this report are based on a sample of the population and are subject to sampling error. The sampling error may be high where an estimated number or the numerator or denominator of a rate or percentage is small. For this reason, particular attention should be directed to the section in appendix I entitled "Reliability of Estimates." Charts of relative sampling errors and instructions for their use are also shown in appendix I.

Certain terms used in this report are defined in appendix II. Since many of the terms have specialized meanings, this appendix is important. The probe questions used to determine which persons in the household had received home care are in appendix III. Also included in appendix III is the supplement used by the interviewer to obtain specific information about the care received at home.

DESCRIPTION OF THE POPULATION BY SELECTED CHARACTERISTICS

Characteristics used to describe the 4.9 percent of the population 55 years and over who received home care during July 1966-June 1968 are age, sex, family income, color, place of residence, geographic region, living arrangement, usual activity, and chronic limitation of activity. The number of persons receiving home care by these characteristics is shown in the first column of tables 1-8. Figure 1 shows that the percentage of the population 55 years and over receiving home care is related to the aging process; it ranges from 2.1 percent of persons 55-64 years of age to 13.4 percent of those who are 75 years and over. Proportionately more females (5.5 percent) received health related care at home than

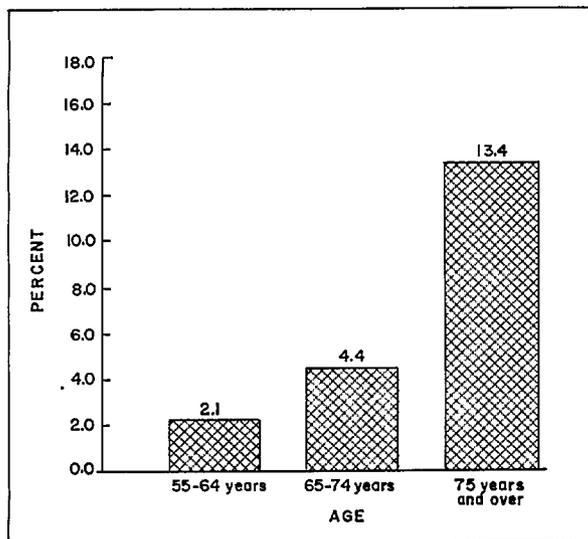


Figure 1. Percent of persons receiving home care, by age.

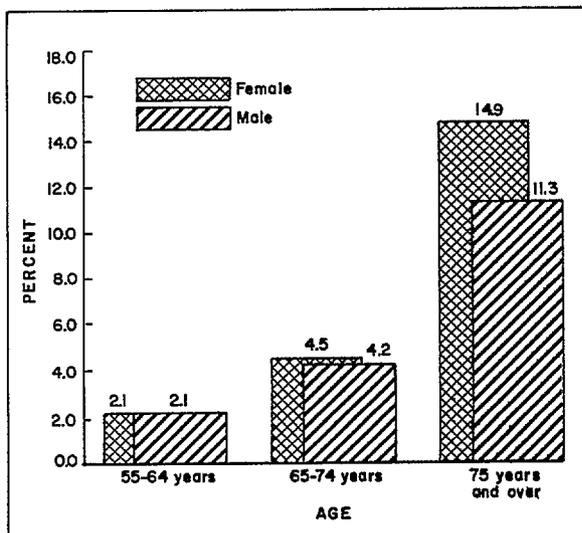


Figure 2. Percent of persons receiving home care, by age and sex.

did males (4.3 percent). This difference becomes more pronounced with advancing age (figure 2).

More persons with an annual family income of less than \$5,000 received home care (6.0 percent) than did persons with an annual family income of \$5,000 or more (3.8 percent). The proportion of the population 55 years and over who received home care in July 1966-June 1968 increased with age within the two income groups shown in figure 3, although among persons over 74 years of age the relationship between income and the receipt of home care is reversed.

Comparison of the proportion of white persons and that of all other persons receiving home care is shown in figure 4. Relatively fewer white persons received home care than did persons in other color groups. About 4.7 percent of the white population 55 years and over reported receiving home care during the interview period compared to 7.2 percent of all other persons in the same age group. Residence in nursing homes and other institutions for the aged and chronically ill removes a proportion of the people requiring care from the noninstitutional population. About 96 percent of the people in those institutions are white.⁵ The white population with higher median incomes are more likely to be inpatients in institutions where care for the elderly is provided.

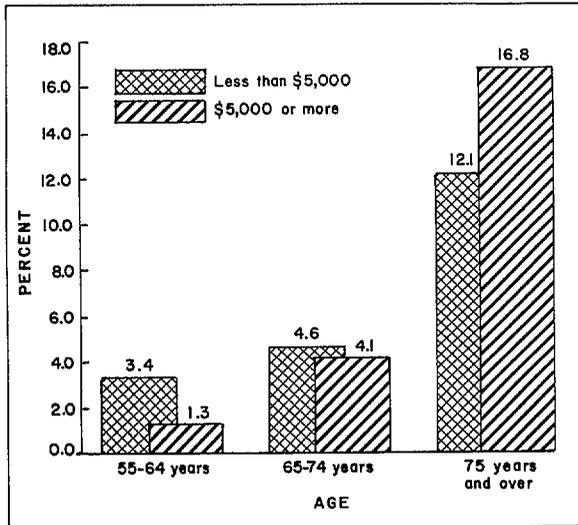


Figure 3. Percent of persons receiving home care, by age and family income.

Proportionately more persons living outside standard metropolitan statistical areas (SMSA's) had home care for health related reasons than did persons living in the metropolitan areas. Approximately 5.9 percent of the population 55 years and over with residence outside an SMSA received care compared with 4.4 percent residing in an SMSA. Figure 5 shows again the increase in proportion of persons with home care as age increases for both residential groups.

The South Region had the largest proportion of its population reporting receipt of home care (6.5 percent), while the West Region had the smallest proportion (3.7 percent). The large proportion of home care recipients in the South Region is probably due to the disproportionate number of Negro and other racial groups residing in this region, many of whom are not institutionalized for the type care they are receiving at home. There is almost no difference in the population groups receiving home care in the Northeast (4.5 percent) and the North Central (4.4 percent) Regions. Figure 6 shows the affect of aging on receipt of home care by region.

Table A shows the proportion of the population receiving home care for the remaining three demographic characteristics used in this

report. Relatively more persons received home care when living with relatives. About 86.9 percent of home care is provided by relatives living in the household. A later section of this report discusses providers of home care.

As expected proportionately more retirees and persons whose usual activity did not include work or housekeeping required home care than did persons who reported keeping house or working as the activity they usually did.

About 90.7 percent of all home care recipients reported limitation in their major activity, i.e., they were unable to work or keep house or were limited in the amount or kind of work which they could do as a result of a chronic condition. Questions on activity limitation and usual activity are asked independently of the home care questions in the Health Interview Survey. A person who reported that he is retired or doing something other than working or keeping house is asked about his limitation of activity in terms of ability to work or limitation in the kind or amount of work he can perform. Therefore any comparisons between these two characteristics should be interpreted with this restriction in mind.

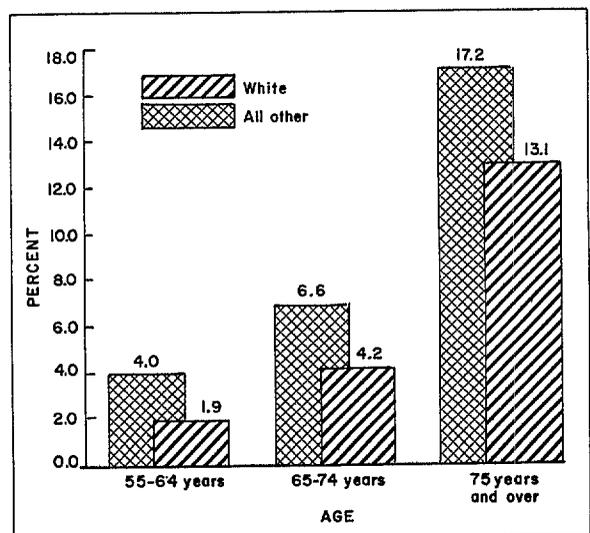


Figure 4. Percent of persons receiving home care, by age and color.

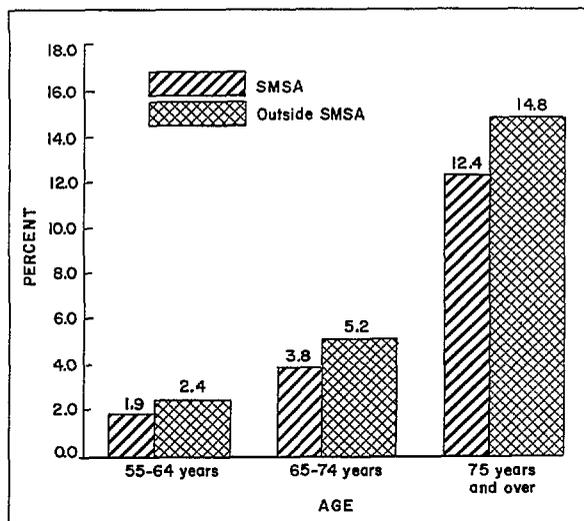


Figure 5. Percent of persons receiving home care, by age and place of residence.

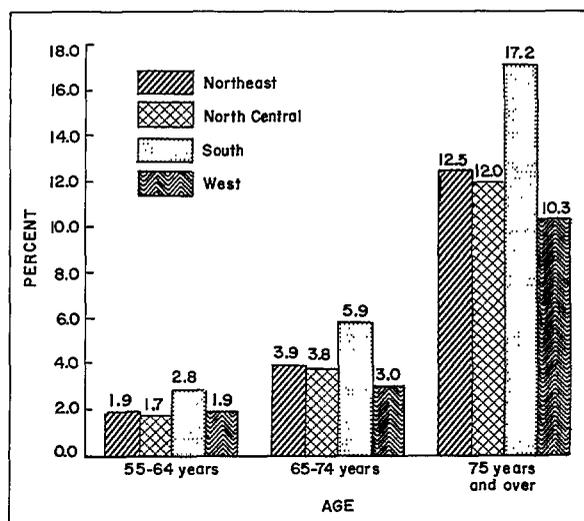


Figure 6. Percent of persons receiving home care, by age and geographic region.

Table A. Total population 55 years and over, persons 55 years and over receiving care at home, and percent of total population receiving care, by selected characteristics: United States, July 1966-June 1968

Selected characteristics	Total population	Total persons receiving care	Total population receiving care
<u>Living arrangement</u>	Number in thousands		Percent
Living alone or with nonrelatives-----	7,227	228	3.2
Living with relatives-----	28,112	1,519	5.4
<u>Usual Activity</u>			
Usually working-----	12,885	85	0.7
Usually keeping house (Females only)---	13,549	465	3.4
Retired-----	7,797	893	11.5
Other activity-----	1,108	305	27.5
<u>Limitation of Activity</u>			
Major activity-----	10,475	1,585	15.1
Other activity-----	1,898	62	3.3
Not limited in activity-----	22,965	101	0.4

CHARACTERISTICS OF CARE RECEIVED AT HOME

Types of health related home care for the demographic characteristics previously discussed are shown in tables 1-8. These types of care have been classified into three general categories; personal, medically related, and other. Personal care includes any help or assistance in moving about, dressing, bathing, or eating. Medically related care includes any help or assistance in changing bandages, injections, or any other medical treatment. The remaining category includes any type of care received but not specifically mentioned in the first two categories.

The conditions for which persons received care are shown in table 9. It was not practical to collect detailed information about the conditions, and therefore the categories used are not identical to the categories of the International Classification of Diseases. Each condition group is described according to the type of care provided for the condition.

Tables 10 and 11 show the duration of time for which care was provided by age of person receiving care and by the type of care provided. The latter is shown in table 12 by one further aspect, whether the care is on a constant or part-time basis.

Types of persons who provide the care are shown in tables 13 and 14 by type of care provided and annual family income of the persons receiving care.

The remaining table, table 15, contains the population data used in computing rates shown in this publication.

Type of Care Provided

About 86.1 percent of persons 55 years and over who received home care reported receiving personal care (table 1). Medically related care was received by 26.6 percent of the population 55 years and over, while other types of care were received by 65.4 percent of the persons in the same category. Relatively more persons 75 years and over received personal care and other types of care not medically related than did persons in the younger age groups. However, proportionately more persons in the younger age groups

received medically related care than did the persons 75 years and over. More males proportionately received personal and nonmedical care than did females.

Table B shows the percent of the specific types of care provided by age and sex. The majority of home care recipients had help in bathing and in cutting toenails.

Proportionately more persons with annual family income of \$5,000 or more received medically related care in the home than did persons with less family income (table 2). There is little difference between income groups for other types of care received.

Relatively more white persons received care, that was medically related than did persons of other color groups (table 3). The pattern of other types of care is the reverse of this. This is probably due to the financial ability of white persons to purchase medically related care since the median family income of this group is higher than it is for other color groups.

There is relatively little difference between population groups by place of residence and type of care provided (table 4). However, in the North-east Region proportionately fewer persons reported use of personal care and other nonmedical care than was reported by the population groups in the other geographic regions shown in table 5.

Approximately 86.9 percent of the persons 55 years and over receiving health related care in the home lived with relatives (table 6). About 87.9 percent of these persons received personal care compared to 74.6 percent of those persons living alone or with nonrelatives.

Proportionately more persons who reported retirement or something else as their usual activity received personal care than did persons who usually worked or kept house (table 7). Financial support necessary for the purchase of medical care may explain the slightly higher figure for medically related care among working persons. Persons 55 years and over who are not working generally have lower family incomes and therefore are less able to afford medical care. The pattern for other types of care received is similar to that of personal care.

Proportionately more persons who were limited in their major activity received personal care at home than did persons with minor or no

Table B. Number of persons 55 years and over receiving care at home and percent of total by age and sex, according to specific care provided: United States, July 1966-June 1968

Specific care provided	Total persons receiving care	Age			Sex	
		55-64 years	65-74 years	75 years and over	Male	Female
Number in thousands						
All care provided-----	1,747	363	499	886	694	1,053
Percent of total						
Moving about-----	44.8	41.0	41.1	48.5	36.7	50.1
Dressing-----	53.5	56.2	53.3	52.5	61.2	48.4
Bathing-----	60.7	52.1	55.1	67.3	67.9	56.0
Eating-----	18.8	15.2	16.8	21.3	18.0	19.2
Changing bandages-----	6.6	*	7.0	6.5	8.1	5.7
Injections-----	14.1	16.0	17.4	11.5	12.7	15.1
Other medical treatment-----	10.4	8.8	11.6	10.4	11.0	10.1
Changing bed position-----	13.2	11.3	14.2	13.5	12.8	13.5
Physical therapy-----	10.5	11.0	12.2	9.3	10.7	10.4
Cutting toenails-----	59.3	50.4	56.3	64.4	61.2	58.0
All other care-----	9.4	9.1	9.8	9.3	8.8	9.8

NOTE: The sum of percent of persons receiving care may be greater than 100 percent since a person may have received more than one type of care. Care received from a physician is excluded.

limitations (table 8). A higher percentage of persons who had no activity limitation received medical care at home than did persons with some degree of limitation. The pattern for persons with other types of care by activity limitation classification are approximately that of those persons receiving personal care.

Condition for Which Care Was Provided

The condition for which home care was provided is shown in table 9. Although all conditions for which the care was provided were collected in the survey, it was not practical to code all of them. Only the first condition reported by the respondent is shown in the table. It is reasonable to assume that the first condition reported is the main condition or the one which has the most im-

pact for receiving home care. Arthritis and rheumatism was the most common condition for which personal care was received; it was followed by senility and orthopedic impairments. Diabetes was the major condition for which medical treatment was received by the person at home. Again, the pattern for other types of care received for specific conditions is similar to that provided by personal care.

Duration of Care

Table C shows the percent distribution of duration of the home care by age. When each age group is compared by the duration of time home care had been received, there is a decline in the percent of persons with care 6-12 months in duration and an increase for those with care

for more than 1 year. The initial decline is indicative of the severity of the illness for which the care is received. Short-term care which is severe probably results in institutionalization or death for the individual, thereby decreasing the proportion of the population receiving care at home. The other decrease in percentage of the population with home care is for those persons receiving care for longer than 5 years. This is most noticeable for persons 65 years and over, which indicates that senility or other conditions associated with the aging process forces these persons to be moved to places of residence where care can be provided on a full-time basis. Data from the Social Security Administration indicates that during the period of the survey there was a definite increase in the utilization of nursing home facilities by persons 65 years and over.⁶

Each duration of care category is distributed according to age in table 10. The impact of aging on receipt of home care is evident for each duration of time shown in the table.

Duration of care by type of care provided is shown in tables D and 11. The majority of persons receiving home care had the care for over a year regardless of the type of care.

Approximately 31.4 percent of all persons 55 years and over receiving home care receive constant care compared to 67.4 percent receiving

part-time care (table E). This ratio is generally the same for all types of care provided although care neither medically related nor personal in nature had proportionately more constant care. However, persons receiving constant care are more likely to receive more kinds of care than persons receiving part-time care (table 11). This is indicative of the necessity for constant care.

Person Providing Care

Approximately 79.8 percent of the population receiving home care had all or part of the care provided by a relative living in the household (table F). Approximately 7.0 percent reported that a registered nurse provided care, while one-third also received care from some other type of provider. Although the majority of medically related care was provided by household members, registered nurses provided more of this kind of care than personal or other care. Approximately 17.8 percent of medically related care was provided by registered nurses compared to 5.3 percent of personal care and 6.6 percent of other care. However, approximately two-thirds of the care provided by registered nurses was medically related. A similar proportion of personal and other care was also provided by registered nurses.

Table C. Percent distribution of persons 55 years and over receiving care at home by duration of care, according to age: United States, July 1966-June 1968

Duration of care	Total persons receiving care	Age		
		55-64 years	65-74 years	75 years and over
All durations ¹ -----	100.0	100.0	100.0	100.0
Less than 6 months -----	15.7	16.0	15.6	15.6
6-12 months -----	10.6	9.9	10.2	10.9
Over 1 to 5 years -----	45.2	38.0	45.5	48.0
Over 5 years -----	27.4	34.2	27.5	24.6

¹Includes unknown duration.

Table D. Percent distribution of persons 55 years and over receiving care at home by duration of care, according to type of care provided: United States, July 1966-June 1968

Duration of care	Total persons receiving care	Type of care provided		
		Personal	Medically related	Other
Percent distribution				
All durations ¹ -----	100.0	100.0	100.0	100.0
Less than 6 months-----	15.7	14.9	16.8	12.9
6-12 months-----	10.6	10.8	10.3	10.2
Over 1 to 5 years-----	45.2	45.6	42.4	46.3
Over 5 years-----	27.4	27.5	29.7	30.0

¹Includes unknown duration.

Proportionately more home care recipients in families with annual income of \$5,000 or more received care from related household members than did persons in families with less income (table G). However, related household members providing care are more likely to be in low

income families (table 14). Relatively more persons in the lower income families received care from other providers. Generally, the size of families in the lower income group is smaller for the older ages, and therefore fewer persons are in the household to provide care.⁷ Thus any

Table E. Percent distribution of persons 55 years and over receiving care at home by extent of care, according to type of care provided: United States, July 1966-June 1968

Extent of care	Total persons receiving care	Type of care provided		
		Personal	Medically related	Other
Percent distribution				
All care provided ¹ -----	100.0	100.0	100.0	100.0
Constant care-----	31.4	35.5	35.7	41.2
Partial or intermittent care-----	67.4	63.2	62.8	58.1

¹Includes unknown extent of care.

Table F. Percent of persons 55 years and over receiving care at home by provider of care, according to type of care provided: United States, July 1966-June 1968

Provider of care	Total persons receiving care	Type of care provided		
		Personal	Medically related	Other
Percent				
All providers ¹ -----	100.0	100.0	100.0	100.0
Related household member-----	79.8	83.6	72.5	81.8
Registered nurse-----	7.0	5.3	17.8	6.6
Other persons-----	34.2	33.6	39.8	38.5

¹Unduplicated count of type of providers.

Table G. Percent of persons 55 years and over receiving care at home by age and provider of care, according to family income: United States, July 1966-June 1968

Age and provider of care	Total ¹ persons receiving care	Family income	
		Less than \$5,000	\$5,000 or more
Percent			
All providers-----	100.0	100.0	100.0
Related household member-----	79.8	76.6	88.4
Registered nurse-----	7.0	7.0	6.6
Other persons-----	34.2	37.1	27.4
55-64 years-----	20.8	19.3	23.3
Related household member-----	17.7	16.2	20.7
Registered nurse-----	*	*	*
Other persons-----	6.3	6.7	5.7
65 years and over-----	79.3	80.7	76.7
Related household member-----	62.0	60.6	67.8
Registered nurse-----	6.0	6.2	5.2
Other persons-----	27.9	30.4	21.6

¹Includes unknown income.

care required would of necessity be provided by persons outside the household, whereas persons in higher income groups can rely on household members.

Approximately 10.1 percent of all home care recipients had some care provided by a nurse during the 12 months prior to the interview period. Persons who had received home care for more than 1 year and received care from a nurse reported an average of 108.3 nurse visits in the past year. Nurse visits included visits from all

types of nurses (i.e., registered nurse, practical nurse, etc.).

The source of payment for home care was asked for only those persons receiving care from providers other than related household members. Approximately 6.5 percent of the care received from these persons was paid by family members living outside the household. Data on other sources of payment are of small magnitude and therefore are statistically unreliable for presentation in this report.

REFERENCES

¹U.S. National Health Survey: Persons receiving care at home, United States, July 1958-June 1959. *Health Statistics*. PHS Pub. No. 584-B28. Public Health Service. Washington. U.S. Government Printing Office, Oct. 1961.

²Estimated number of persons using Medicare services, Calendar 1967, *Health Insurance Statistics*, CMS-6 (Current Medicare Survey Report). Social Security Administration, Washington, D.C., Dec. 30, 1968.

³Medical insurance sample, January-December 1968, *Health Insurance Statistics*, CMS-12 (Current Medicare Survey Report). Social Security Administration, Washington, D.C. Jan. 27, 1970.

⁴National Center for Health Statistics: Nursing and personal care services received by residents of nursing and personal care homes, United States, May-June 1964. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 12-No. 10. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1968.

⁵National Center for Health Statistics: Characteristics of residents in institutions for the aged and chronically ill, United States, April-June 1963. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 12-No. 2. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1965.

⁶Outlays for medical care of aged and nonaged persons, Fiscal Years 1966-1968, *Research and Statistics Note 12*. Social Security Administration, Washington, D.C., July 16, 1969.

⁷U.S. Bureau of the Census: Income in 1969 of families and persons in the United States. *Current Population Reports*. Series P-60, No. 75, Table 20. Washington. U.S. Government Printing Office, Dec. 4, 1970.

⁸National Center for Health Statistics: Health survey procedure. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 1-No. 2. Public Health Service. Washington. U.S. Government Printing Office, May 1964.

⁹National Health Survey: The statistical design of the health household interview survey. *Health Statistics*. PHS Pub. No. 584-A2. Public Health Service. Washington. U.S. Government Printing Office, 1958.

¹⁰National Center for Health Statistics: Estimation and sampling variance. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 38. Public Health Service. Washington. U.S. Government Printing Office, June 1970.

¹¹National Center for Health Statistics: Reporting of hospitalization in the Health Interview Survey. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 6. Public Health Service. Washington. U.S. Government Printing Office, July 1965.

¹²National Center for Health Statistics: Health interview responses compared with medical records. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 7. Public Health Service. Washington. U.S. Government Printing Office, July 1965.

¹³National Center for Health Statistics: Comparison of hospitalization reporting in three survey procedures. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 8. Public Health Service. Washington. U.S. Government Printing Office, July 1965.

¹⁴National Center for Health Statistics: Interview data on chronic conditions compared with information derived from medical records. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 23. Public Health Service. Washington. U.S. Government Printing Office, May 1967.

¹⁵National Center for Health Statistics: The influence of interviewer and respondent psychological and behavioral variables on the reporting in household interviews. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 26. Public Health Service. Washington. U.S. Government Printing Office, Mar. 1968.



LIST OF DETAILED TABLES

		Page
Table 1.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by sex and age: United States, July 1966-June 1968-----	15
2.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by family income and age: United States, July 1966-June 1968-----	16
3.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by color and age: United States, July 1966-June 1968-----	17
4.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by place of residence and age: United States, July 1966-June 1968-----	18
5.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by geographic region and age: United States, July 1966-June 1968-----	19
6.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by living arrangement: United States, July 1966-June 1968-----	20
7.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by sex and usual activity: United States, July 1966-June 1968-----	20
8.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by sex and chronic activity limitation: United States, July 1966-June 1968-----	21
9.	Average number of conditions first reported as reason for receiving home care and percent distribution by condition group, according to type of care: United States, July 1966-June 1968-----	22
10.	Average number of persons 55 years and over receiving care at home and percent distribution by age, according to duration of care: United States, July 1966-June 1968-----	23
11.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by duration of care: United States, July 1966-June 1968-----	23
12.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by length of time someone must be in house with recipient: United States, July 1966-June 1968-----	24
13.	Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by provider of care: United States, July 1966-June 1968-----	24
14.	Average number of persons 55 years and over receiving care at home and percent distribution by family income, according to age and provider of care: United States, July 1966-June 1968-----	25
15.	Population 55 years and over used in obtaining rates shown in this publication, by age and selected characteristic: United States, July 1966-June 1968-----	26

Table 1. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by sex and age: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Sex and age	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
<u>Both sexes</u>	Number of persons in thousands			Percent of total			
All ages 55 years and over-----	1,747	1,505	465	1,142	86.1	26.6	65.4
55-64 years-----	363	308	100	212	84.8	27.5	58.4
65-74 years-----	499	412	153	314	82.6	30.7	62.9
75 years and over-----	886	785	212	617	88.6	23.9	69.6
<u>Male</u>							
All ages 55 years and over-----	694	605	182	465	87.2	26.2	67.0
55-64 years-----	174	150	49	111	86.2	28.2	63.8
65-74 years-----	211	183	62	140	86.7	29.4	66.4
75 years and over-----	309	272	71	214	88.0	23.0	69.3
<u>Female</u>							
All ages 55 years and over-----	1,053	899	283	678	85.4	26.9	64.4
55-64 years-----	189	158	51	101	83.6	27.0	53.4
65-74 years-----	288	229	90	175	79.5	31.3	60.8
75 years and over-----	577	512	141	402	88.7	24.4	69.7

NOTE: The sum of persons by type of care received may be greater than the total persons receiving care since a person may have received more than one type of care. Care received from a physician is excluded.

Table 2. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by family income and age: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Family income and age	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
<u>All incomes¹</u>		Number of persons in thousands			Percent of total		
All ages 55 years and over-----	1,747	1,505	465	1,142	86.1	26.6	65.4
55-64 years-----	363	308	100	212	84.8	27.5	58.4
65-74 years-----	499	412	153	314	82.6	30.7	62.9
75 years and over-----	886	785	212	617	88.6	23.9	69.6
<u>Less than \$5,000</u>							
All ages 55 years and over-----	1,052	912	263	690	86.7	25.0	65.6
55-64 years-----	203	179	52	118	88.2	25.6	58.1
65-74 years-----	322	274	90	201	85.1	28.0	62.4
75 years and over-----	527	459	121	372	87.1	23.0	70.6
<u>\$5,000 or more</u>							
All ages 55 years and over-----	580	494	175	381	85.2	30.2	65.7
55-64 years-----	135	110	43	77	81.5	31.9	57.0
65-74 years-----	147	114	55	95	77.6	37.4	64.6
75 years and over-----	298	270	77	209	90.6	25.8	70.1

¹Including unknown income.

NOTE: The sum of persons by type of care received may be greater than the total persons receiving care since a person may have received more than one type of care. Care received from a physician is excluded.

Table 3. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by color and age: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Color and age	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
<u>Total</u>		Number of persons in thousands			Percent of total		
All ages 55 years and over-----	1,747	1,505	465	1,142	86.1	26.6	65.4
55-64 years-----	363	308	100	212	84.8	27.5	58.4
65-74 years-----	499	412	153	314	82.6	30.7	62.9
75 years and over-----	886	785	212	617	88.6	23.9	69.6
<u>White</u>							
All ages 55 years and over-----	1,532	1,308	432	995	85.4	28.2	64.9
55-64 years-----	300	251	91	173	83.7	30.3	57.7
65-74 years-----	440	361	144	275	82.0	32.7	62.5
75 years and over-----	792	695	197	547	87.8	24.9	69.1
<u>All other</u>							
All ages 55 years and over-----	215	197	33	147	91.6	15.3	68.4
55-64 years-----	62	56	*	38	90.3	*	61.3
65-74 years-----	58	51	*	39	87.9	*	67.2
75 years and over-----	94	90	*	70	95.7	*	74.5

NOTE: The sum of persons by type of care received may be greater than the total persons receiving care since a person may have received more than one type of care. Care received from a physician is excluded.

Table 4. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by place of residence and age: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Place of residence and age	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
<u>All residences</u>		Number of persons in thousands			Percent of total		
All ages 55 years and over-----	1,747	1,505	465	1,142	86.1	26.6	65.4
55-64 years-----	363	308	100	212	84.8	27.5	58.4
65-74 years-----	499	412	153	314	82.6	30.7	62.9
75 years and over-----	886	785	212	617	88.6	23.9	69.6
<u>SMSA</u>							
All ages 55 years and over-----	958	817	260	630	85.3	27.1	65.8
55-64 years-----	209	174	53	121	83.3	25.4	57.9
65-74 years-----	270	225	89	175	83.3	33.0	64.8
75 years and over-----	479	418	117	335	87.3	24.4	69.9
<u>Outside SMSA</u>							
All ages 55 years and over-----	789	688	206	512	87.2	26.1	64.9
55-64 years-----	153	133	47	91	86.9	30.7	59.5
65-74 years-----	229	188	63	140	82.1	27.5	61.1
75 years and over-----	407	367	95	282	90.2	23.3	69.3

NOTE: The sum of persons by type of care received may be greater than the total persons receiving care since a person may have received more than one type of care. Care received from a physician is excluded.

Table 5. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by geographic region and age: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Geographic region and age	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
<u>All regions</u>		Number of persons in thousands			Percent of total		
All ages 55 years and over-----	1,747	1,505	465	1,142	86.1	26.6	65.4
55-64 years-----	363	308	100	212	84.8	27.5	58.4
65-74 years-----	499	412	153	314	82.6	30.7	62.9
75 years and over-----	886	785	212	617	88.6	23.9	69.6
<u>Northeast</u>							
All ages 55 years and over-----	425	351	116	265	82.6	27.3	62.4
55-64 years-----	87	73	*	48	82.9	*	55.2
65-74 years-----	122	99	38	75	81.1	31.1	61.5
75 years and over-----	216	179	55	143	82.9	25.5	66.2
<u>North Central</u>							
All ages 55 years and over-----	444	391	115	298	88.1	25.9	67.1
55-64 years-----	82	69	*	48	84.1	*	58.5
65-74 years-----	123	103	38	79	83.7	30.9	64.2
75 years and over-----	240	219	54	171	91.3	22.5	71.3
<u>South</u>							
All ages 55 years and over-----	681	588	183	449	86.3	26.9	65.9
55-64 years-----	144	121	43	90	84.0	29.9	62.5
65-74 years-----	205	169	59	127	82.4	28.8	62.0
75 years and over-----	333	298	81	232	89.5	24.3	69.7
<u>West</u>							
All ages 55 years and over-----	197	176	51	131	89.3	25.9	66.5
55-64 years-----	50	45	*	*	90.0	*	*
65-74 years-----	49	42	*	33	85.7	*	67.3
75 years and over-----	98	89	*	71	90.8	*	72.4

NOTE: The sum of persons by type of care received may be greater than the total persons receiving care since a person may have received more than one type of care. Care received from a physician is excluded.

Table 6. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by living arrangement: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Living arrangement	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
		Number of persons in thousands			Percent of total		
All living arrangements-----	1,747	1,505	465	1,142	86.1	26.6	65.4
Living alone or with non-relatives-----	228	170	67	143	74.6	29.4	62.7
Living with relatives-----	1,519	1,335	399	1,000	87.9	26.3	65.8

NOTE: The sum of persons by type of care received may be greater than the total persons receiving one since a person may have received more than one type of care. Care received from a physician is excluded.

Table 7. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by sex and usual activity: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Sex and usual activity	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
		Number of persons in thousands			Percent of total		
<u>Both sexes</u>							
All activities-----	1,747	1,505	465	1,142	86.1	26.6	65.4
Usually working-----	85	62	31	39	72.9	36.5	45.9
Usually keeping house-----	465	356	126	235	76.6	27.1	50.5
Retired-----	893	800	229	636	89.6	25.6	71.2
Other activity ¹ -----	305	286	79	233	93.8	25.9	76.4
<u>Male</u>							
All activity groups----	694	605	182	465	87.2	26.2	67.0
Usually working-----	67	51	*	34	76.1	*	50.7
Retired-----	563	495	143	389	87.9	25.4	69.1
Other activity ¹ -----	64	60	*	43	93.8	*	67.2
<u>Female</u>							
All activity groups----	1,053	899	283	678	85.4	26.9	64.4
Usually working-----	*	*	*	*	*	*	*
Usually keeping house-----	465	356	126	235	76.6	27.1	50.5
Retired-----	330	306	86	248	92.7	26.1	75.2
Other activity ¹ -----	241	225	64	190	93.4	26.6	78.8

¹Includes unknown activity. See NOTE above.

Table 8. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by sex and chronic activity limitation: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Sex and chronic activity limitation	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
<u>Both sexes</u>		Number of persons in thousands			Percent of total		
All activity groups----	1,747	1,505	465	1,142	86.1	26.6	65.4
Major activity-----	1,585	1,393	412	1,074	87.9	26.0	67.8
Other activity-----	62	45	*	*	72.6	*	*
Not limited in activity-----	101	67	37	44	66.3	36.6	43.6
<u>Male</u>							
All activity groups----	694	605	182	465	87.2	26.2	67.0
Major activity-----	652	577	167	447	88.5	25.6	68.6
Other activity-----	*	*	*	*	*	*	*
Not limited in activity-----	*	*	*	*	*	*	*
<u>Female</u>							
All activity groups----	1,053	899	283	678	85.4	26.9	64.4
Major activity-----	933	816	246	628	87.5	26.4	67.3
Other activity-----	47	34	*	*	72.3	*	*
Not limited in activity-----	73	49	*	32	67.1	*	43.8

NOTE: The sum of persons by type of care received may be greater than the total persons receiving care since a person may have received more than one type of care. Care received from a physician is excluded.

Table 9. Average number of conditions first reported as reason for receiving home care and percent distribution by condition group, according to type of care: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Condition group	Total persons receiving care	Type of care provided			Total persons receiving care	Type of care provided		
		Personal	Medically related	Other		Personal	Medically related	Other
	Number of conditions in thousands				Percent distribution			
All conditions--	1,747	1,505	465	1,142	100.0	100.0	100.0	100.0
Arthritis and rheumatism-----	297	279	51	192	17.0	18.5	11.0	16.8
Diabetes-----	96	38	79	46	5.5	2.5	17.0	4.0
Diseases of nervous system and sense organs-----	189	181	37	154	10.8	12.0	8.0	13.5
Stroke-----	219	127	*	107	7.4	8.4	*	9.4
Other-----	60	54	*	47	3.4	3.6	*	4.1
Diseases of circulatory system----	214	189	59	139	12.2	12.6	12.7	12.2
Heart-----	118	104	32	77	6.8	6.9	6.9	6.7
Arteriosclerosis--	51	50	*	40	2.9	3.3	*	3.5
Other-----	45	34	*	*	2.6	2.3	*	*
Senility-----	154	140	*	112	8.8	9.3	*	9.8
Orthopedic impairments-----	155	141	*	102	8.9	9.4	*	8.9
Other impairments----	214	197	33	155	12.2	13.1	7.1	13.6
Vision-----	86	76	*	63	4.9	5.0	*	5.5
Paralysis-----	90	87	*	72	5.2	5.8	*	6.3
Other-----	37	35	*	*	2.1	2.3	*	*
Accidents and injuries-----	40	38	*	*	2.3	2.5	*	*
All other conditions ¹ -	388	302	153	214	22.2	20.1	32.9	18.7

¹Includes unknown and no conditions reported.

NOTE: Care received from a physician is excluded.

Table 10. Average number of persons 55 years and over receiving care at home and percent distribution by age, according to duration of care: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Duration of care	Total persons receiving care	Age					
		55-64 years	65-74 years	75 years and over	55-64 years	65-74 years	75 years and over
		Number of persons in thousands			Percent distribution		
All durations ¹ -----	1,747	363	499	886	20.8	28.6	50.7
Less than 6 months-----	274	58	78	138	21.2	28.5	50.4
6-12 months-----	185	36	51	97	19.5	27.6	52.4
Over 1 to 5 years-----	789	138	227	425	17.5	28.8	53.9
Over 5 years-----	478	124	137	218	25.9	28.7	45.6

¹Includes unknown duration.

NOTE: Care received from a physician is excluded.

Table 11. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by duration of care: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Duration of care	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
		Number of persons in thousands			Percent of total		
All durations ¹ -----	1,747	1,505	465	1,142	86.1	26.6	65.4
Less than 6 months-----	274	224	78	147	81.8	28.5	53.6
6-12 months-----	185	162	48	116	87.6	25.9	62.7
Over 1 to 5 years-----	789	687	197	529	87.1	25.0	67.0
Over 5 years-----	478	414	138	343	86.6	28.9	71.8

¹Includes unknown duration.

NOTE: The sum of persons by type of care received may be greater than the total persons receiving care since a person may have received more than one type of care. Care received from a physician is excluded.

Table 12. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by length of time someone must be in house with recipient: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Extent of care	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
		Number of persons in thousands			Percent of total		
All care provided ¹ -----	1,747	1,505	465	1,142	86.1	26.6	65.4
Constant care-----	549	535	166	470	97.4	30.2	85.6
Partial or intermittent care-	1,177	951	292	663	80.8	24.8	56.3

¹Includes unknown extent.

NOTE: The sum of persons by type of care received may be greater than the total person receiving care since a person may have received more than one type of care. Care received from a physician is excluded.

Table 13. Average number of persons 55 years and over receiving care at home and percent of total receiving each type of care provided, by provider of care: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Provider of care	Total persons receiving care	Type of care provided					
		Personal	Medically related	Other	Personal	Medically related	Other
		Number of persons in thousands			Percent of total		
All providers ¹ -----	1,747	1,505	465	1,142	86.1	26.6	65.4
Related household member-----	1,394	1,258	337	934	90.2	24.2	67.0
Registered nurse-----	123	80	83	75	65.0	67.5	61.0
Other persons-----	598	505	185	440	84.4	30.9	73.6

¹Unduplicated count of types of providers.

NOTE: The sum of persons by type of care received may be greater than the total person receiving care since a person may have received more than one type of care. Care received from a physician is excluded.

Table 14. Average number of persons 55 years and over receiving care at home and percent distribution by family income, according to age and provider of care: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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 provider of care	Total persons receiving care ¹	Family income			
		Less than \$5,000	\$5,000 or more	Less than \$5,000	\$5,000 or more
		Number of persons in thousands		Percent distribution	
All ages 55 years and over-----	1,747	1,052	580	60.2	33.2
Related household member-----	1,394	806	513	57.8	36.8
Registered nurse-----	123	74	38	60.2	30.9
Other persons-----	598	390	159	65.2	26.6
55-64 years-----	363	203	135	55.9	37.2
Related household member-----	310	170	120	54.8	38.7
Registered nurse-----	*	*	*	*	*
Other persons-----	110	70	33	63.6	30.0
65 years and over-----	1,385	849	445	61.3	32.1
Related household member-----	1,084	637	393	58.8	36.3
Registered nurse-----	105	65	30	61.9	28.6
Other persons-----	487	320	125	65.7	25.7

¹Includes unknown income.

NOTE: Care received from a physician is excluded.

Table 15. Population 55 years and over used in obtaining rates shown in this publication, by age and selected characteristic: United States, July 1966-June 1968

[Data are based on household interviews of the civilian, noninstitutional 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]

Selected characteristic	Total persons 55 years and over	Age		
		55-64 years	65-74 years	75 years and over
Number of persons in thousands				
Both sexes ¹ -----	35,338	17,312	11,414	6,613
Male-----	16,027	8,219	5,071	2,737
Female-----	19,311	9,093	6,343	3,875
<u>Color</u>				
White-----	32,343	15,745	10,530	6,067
All other-----	2,996	1,567	883	545
<u>Region</u>				
Northeast-----	9,506	4,662	3,121	1,724
North Central-----	10,011	4,794	3,220	1,998
South-----	10,555	5,163	3,452	1,940
West-----	5,266	2,693	1,621	952
<u>Place of residence</u>				
SMSA-----	21,929	11,052	7,019	3,857
Outside SMSA-----	13,409	6,260	4,394	2,755
<u>Family income</u>				
Less than \$5,000-----	17,403	6,053	7,013	4,338
\$5,000 or more-----	15,344	10,026	3,548	1,770

¹Includes unknown income.

APPENDIX I

TECHNICAL NOTES ON METHODS

Background of This Report

This report is one of a series of statistical reports prepared by the National Center for Health Statistics (NCHS). It is based on information collected in a continuing nationwide sample of households in the Health Interview Survey (HIS).

The Health Interview Survey utilizes a questionnaire which obtains information on personal and demographic characteristics, illnesses, injuries, impairments, chronic conditions, and other health topics. As data relating to each of these various broad topics are tabulated and analyzed, separate reports are issued which cover one or more of the specific topics. The present report is based on data collected in household interviews during July 1966-June 1968.

The population covered by the sample for the Health Interview Survey is the civilian, noninstitutional population of the United States living at the time of the interview. The sample does not include members of the Armed Forces or U.S. nationals living in foreign countries. It should also be noted that the estimates shown do not represent a complete measure of any given topic during the specified calendar period since data are not collected in the interview for persons who died during the reference period. For many types of statistics collected in the survey, the reference period covers 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 (e.g., 1 year) might be sizable, especially for older persons.

Statistical Design of the Health Interview Survey

General Plan.—The sampling plan of the survey follows a multistage probability design which permits a continuous sampling of the civilian, noninstitutional population of the United States. The sample is designed in such a way that the sample of households interviewed each week is representative of the target population and that weekly samples are additive over time. This feature

of the design permits both continuous measurement of characteristics of samples and more detailed analysis of less common characteristics and smaller categories of health-related items. The continuous collection has administrative and operational advantages as well as technical assets since it permits field-work to be handled with an experienced, stable staff.

The overall sample was designed so that tabulations can be provided for each of the four major geographic regions and for urban and rural sectors of the United States.

The first stage of the sample design consists of drawing a sample of 357 primary sampling units (PSU's) from approximately 1,900 geographically defined PSU's. A PSU consists of a county, a small group of contiguous counties, or a standard metropolitan statistical area. The PSU's collectively cover the 50 States and the District of Columbia.

With no loss in general understanding, the remaining stages can be combined and treated in this discussion as an ultimate stage. Within PSU's, then, ultimate stage units called segments are defined in such a manner that each segment contains an expected nine households. Three general types of segments are used:

Area segments which are defined geographically. List segments, using 1960 census registers as the frame.

Permit segments, using up-dated lists of building permits issued in sample PSU's since 1960.

Census address listings were used for all areas of the country where addresses were well defined and could be used to locate housing units. In general the list frame included the larger urban areas of the United States from which about two-thirds of the HIS sample was selected.

The total HIS sample of approximately 5,700 segments yields a probability sample of about 134,000 persons in 42,000 interviewed households in a year.

Descriptive material on data collection, field procedures, and questionnaire development in the HIS has been published as well as a detailed description of the

sample design and a report on the estimation procedure and the method used to calculate sampling errors of estimates derived from the survey.⁸⁻¹⁰

Collection of Data.—Field operations for the survey are performed by the U.S. Bureau of the Census under specifications established by the National Center for Health Statistics. In accordance with these specifications the Bureau of the Census participates in survey planning, selects the sample, and conducts the field interviewing as an agent of NCHS. The data are coded, edited, and tabulated by NCHS.

Estimating Procedures.—Since the design of the HIS is a complex multistage probability sample, it is necessary to use complex procedures in the derivation of estimates. Four basic operations are involved:

Inflation by the reciprocal of the probability of selection.—The probability of selection is the product of the probabilities of selection from each step of selection in the design (PSU, segment, and household).

Nonresponse adjustment.—The estimates are inflated by a multiplication factor which has as its numerator the number of sample households in a given segment and as its denominator the number of households interviewed in that segment.

First-stage ratio adjustment.—Sampling theory indicates that the use of auxiliary information which is highly correlated with the variables being estimated improves the reliability of the estimates. To reduce the variability between PSU's within a region, the estimates are ratio adjusted to 1960 population within six color-residence classes.

Poststratification by age-sex-color.—The estimates are ratio adjusted within each of 60 age-sex-color cells to an independent estimate of the population of each cell for the survey period. These independent estimates are prepared by the Bureau of the Census. Both the first-stage and poststratified ratio adjustments take the form of multiplication factors applied to the weight of each elementary unit (person, household, condition, and hospitalization).

The effect of the ratio-estimating process is to make the sample more closely representative of the civilian, noninstitutional population by age, sex, color, and residence, which thereby reduces sampling variance.

As noted, each week's sample represents the population living during that week and characteristics of that population. Consolidation of samples over a time period, e.g., a calendar quarter, produces estimates

of average characteristics of the U.S. population for that calendar quarter. Similarly, population data for two years are averages of the eight quarterly figures.

For prevalence statistics, such as number of persons with speech impairments or number of persons classified by time interval since last physician visit, figures are first calculated for each calendar quarter by averaging estimates for all weeks of interviewing in that quarter. Prevalence data for a year are then obtained by averaging the eight quarterly figures.

For other types of statistics—namely those measuring the number of occurrences during a specified time period—such as incidence of acute conditions, number of disability days, or number of visits to a doctor or dentist, a similar computational procedure is used, but the statistics are interpreted differently. For these items, the questionnaire asks for the respondent's experience over the 2 calendar weeks prior to the week of interview. In such instances the estimated quarterly total for the statistics is 6.5 times the average 2-week estimate produced by the 13 successive samples taken during the period. The annual total is the sum of the four quarters. Thus the experience of persons *interviewed during a year*—experience which actually occurred for each person in a 2-calendar-week interval prior to week of interview—is treated as though it measured the total of such experience *during the year*. Such interpretation leads to no significant bias.

General Qualifications

Nonresponse.—Data were adjusted for nonresponse by a procedure which imputes to persons in a household which was not interviewed the characteristics of persons in households in the same segment which were interviewed. The total noninterview rate was about 5 percent—1 percent was refusal, and the remainder was primarily due to the failure to find an eligible respondent at home after repeated calls.

The interview process.—The statistics presented in this report are based on replies obtained in interviews with persons in the sample households. For children and for adults not present in the home at the time of the interview, the information was obtained from a related household member such as a spouse or the mother of a child.

There are limitations to the accuracy of diagnostic and other information collected in household interviews. 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. However, other facts, such as the number of disability days caused by the condition, can be obtained more accurately from household members than from any other source since only the persons concerned are in a position to report this information.

NOTE: The list of references follows the text.

Rounding of numbers.—The original tabulations on which the data in this report are based show all estimates to the nearest whole unit. All consolidations were made from the original tabulations using the estimates to the nearest unit. In the final published tables, the figures are rounded to the nearest thousand, although these are not necessarily accurate to that detail. Devised statistics, such as rates and percent distributions, are computed after the estimates on which these are based have been rounded to the nearest thousand.

Population figures.—Some of the published tables include population figures for specified categories. Except for certain overall totals by age, sex, and color, which are adjusted to independent estimates, these figures are based on the sample of households in the HIS. These are given primarily to provide denominators for rate computation, and for this purpose 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 color mentioned above, the population figures differ from corresponding figures (which are derived from different sources) published in reports of the Bureau of the Census. (For population data for general use, see the official estimates presented in Bureau of the Census reports in the P-20, P-25, and P-60 series.)

Reliability of Estimates

Since the statistics presented in this report are based on a sample, they will differ somewhat from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and interviewing personnel and procedures.

As in any survey, the results are also subject to reporting and processing errors and errors due to non-response. To the extent possible, these types of errors were kept to a minimum by methods built into survey procedures. Although it is very difficult to measure the extent of bias in the Health Interview Survey, a number of studies have been conducted to study this problem. The results have been published in several reports.¹¹⁻¹⁵

The standard error is primarily a measure of sampling variability, that is, the variations that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the standard error also reflects part of the variation which arises in the measurement process. It does not include estimates of any biases which might lie in the data. 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 2½ times as large.

NOTE: The list of references follows the text.

The relative standard error of an estimate is obtained by dividing the standard error of the estimate by the estimate itself and is expressed as a percentage of the estimate. For this report, asterisks are shown for any cell with more than a 30-percent relative standard error. Included in this appendix are charts from which the relative standard errors can be determined for estimates shown in the report. In order to derive relative errors which would be applicable to a wide variety of health statistics and which could be prepared at a moderate cost, a number of approximations were required. As a result, the charts provide an estimate of the approximate relative standard error rather than the precise error for any specific aggregate or percentage.

Three classes of statistics for the health survey are identified for purposes of estimating variances.

Narrow range.—This class consists of (1) statistics which estimate a population attribute, e.g., the number of persons in a particular income group, and (2) statistics for which the measure for a single individual during the reference period used in data collection is usually either 0 or 1 or on occasion may take on the value 2 or very rarely 3.

Medium range.—This class consists of other statistics for which the measure for a single individual during the reference period used in data collection will rarely lie outside the range 0 to 5.

Wide range.—This class consists of statistics for which the measure for a single individual during the reference period used in data collection can range from 0 to a number in excess of 5, e.g., the number of days of bed disability.

In addition to classifying variables according to whether they are narrow-, medium-, or wide-range, statistics in the survey are further defined as:

Type A.—Statistics on prevalence and incidence data for which the period of reference in the questionnaire is 12 months.

Type B.—Incidence-type statistics for which the period of reference in the questionnaire is 2 weeks.

Type C.—Statistics for which the reference period is 6 months.

Only the charts on sampling error applicable to data contained in this report are presented.

General rules for determining relative sampling errors. The "guide" on page 31, together with the following rules, will enable the reader to determine approximate relative standard errors from the charts for estimates presented in this report.

Rule 1. *Estimates of aggregates:* Approximate relative standard errors for estimates of aggregates such as the number of per-

sons with a given characteristic are obtained from appropriate curves on page 32. The number of persons in the total U.S. population or in an age-sex-color class of the total population is adjusted to official Bureau of the Census figures and is not subject to sampling error.

Rule 2. *Estimates of percentage in a percent distribution:* Relative standard errors for percentages in a percent distribution of a total are obtained from appropriate curves on page 33. For values which do not fall on one of the curves presented in the chart, visual interpolation will provide a satisfactory approximation.

Rule 3. *Estimates of rates where the numerator is a subclass of the denominator:* This rule applies for prevalence rates or where a unit of the numerator occurs, with few exceptions, only once in the year for any one unit in the denominator. For example, in computing the rate of visual impairments per 1,000 population, the numerator consisting of persons with the impairment is a subclass of the denominator which includes all persons in the population. Such rates if converted to rates per 100 may be treated as though they were percentages and the relative standard errors obtained from the chart P8AN-M. Rates per 1,000, or on any other base, must first be converted to rates per 100; then the percentage chart will provide the relative standard error per 100.

Rule 4. *Estimates of rates where the numerator is not a subclass of the denominator:* This rule applies where a unit of the numerator often occurs more than once for any one unit in the denominator. For example, in the computation of the number of persons injured per 100 currently employed persons per year, it is possible that a person in the denominator could have sustained more than one of the injuries included in numerator. Approximate relative standard

errors for rates of this kind may be computed as follows:

- (a) Where the denominator is the total U.S. population or includes all persons in one or more of the age-sex-color groups of the total population, the relative error of the rate is equivalent to the relative error of the numerator which can be obtained directly from the appropriate chart.
- (b) In other cases the relative standard error of the numerator and of the denominator can be obtained from the appropriate curve. Square each of these relative errors, add the resulting values, and extract the square root of the sum. This procedure will result in an upper bound on the standard error and often will overstate the error.

Rule 5. *Estimates of difference between two statistics (mean, rate, total, etc.):* The standard error of a difference is approximately the square root of the sum of the squares of each standard error considered separately. A formula for the standard error of a difference $d = X_1 - X_2$, is

$$\sigma_d = \sqrt{(X_1 V_{x_1})^2 + (X_2 V_{x_2})^2}$$

where X_1 is the estimate for class 1, X_2 is the estimate for class 2, and V_{x_1} and V_{x_2} are the relative errors of X_1 and X_2 respectively. This formula will represent the actual standard error quite accurately for the difference between separate and uncorrelated characteristics although it is only a rough approximation in most other cases. The relative standard error of each estimate involved in such a difference can be determined by one of the four rules above, whichever is appropriate.

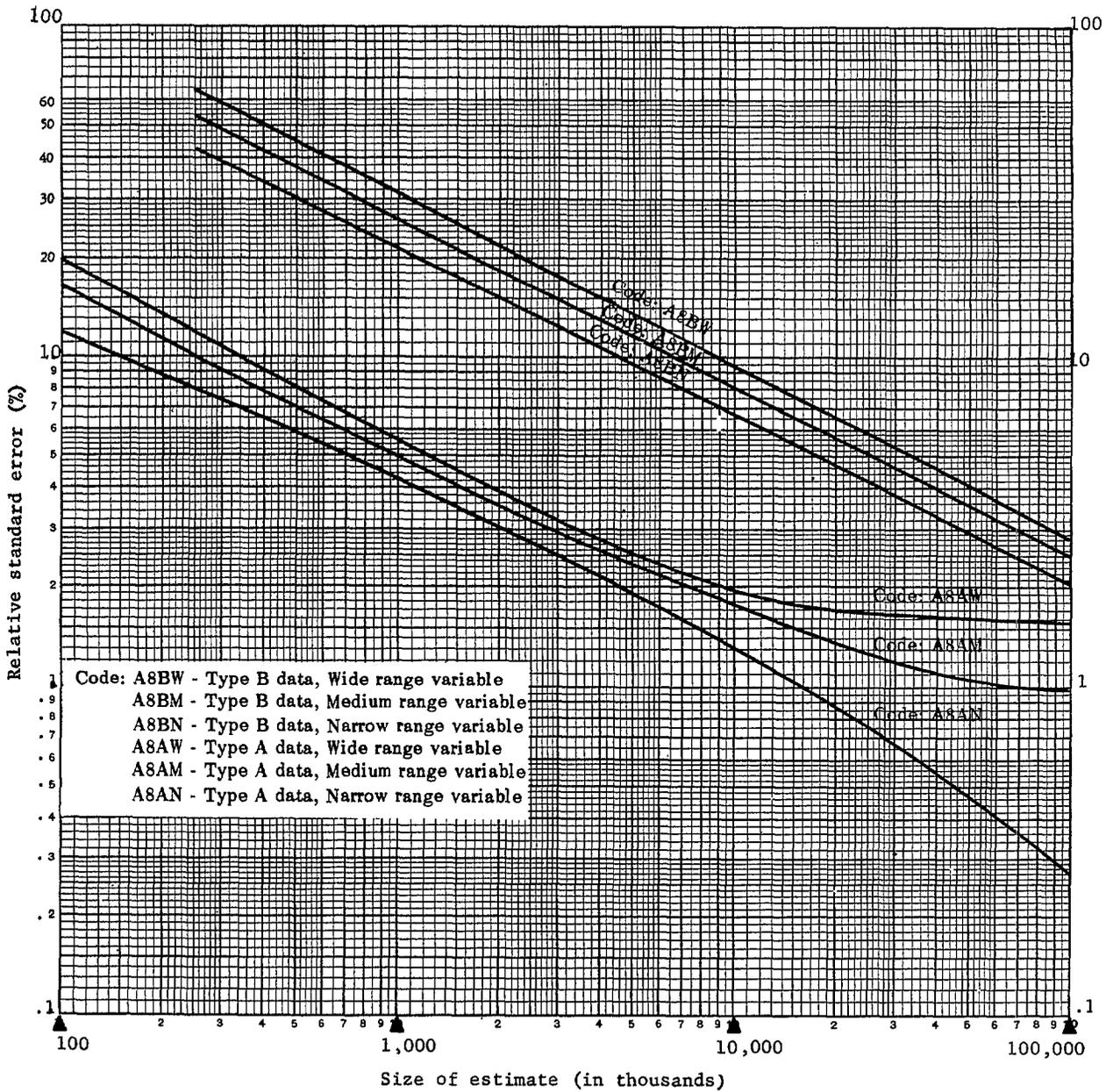
Guide to Use of Relative Standard Error Charts

The code shown below identifies the appropriate curve to be used in estimating the relative standard error of the statistic described. The four components of each code describe the statistics as follows: (1)

A= aggregate, P= percentage; (2) the number of calendar quarters of data collection; (3) the type of the statistic and; (4) the range of the statistic.

Statistic	Use:		
	Rule	Code	on page
Number of:			
Persons in the U.S. population or any age-sex-color category thereof			Not subject to sampling error
Persons in the other population groups	1	A8AN	32
Persons with home care	1	A8AN	32
Percent distribution of:			
Persons with home care by characteristic	2	P8AN-M	33
Type of conditions by characteristic	1	A8AN	32
Percent distribution of:			
Conditions by characteristic	3	P8AN-M	33

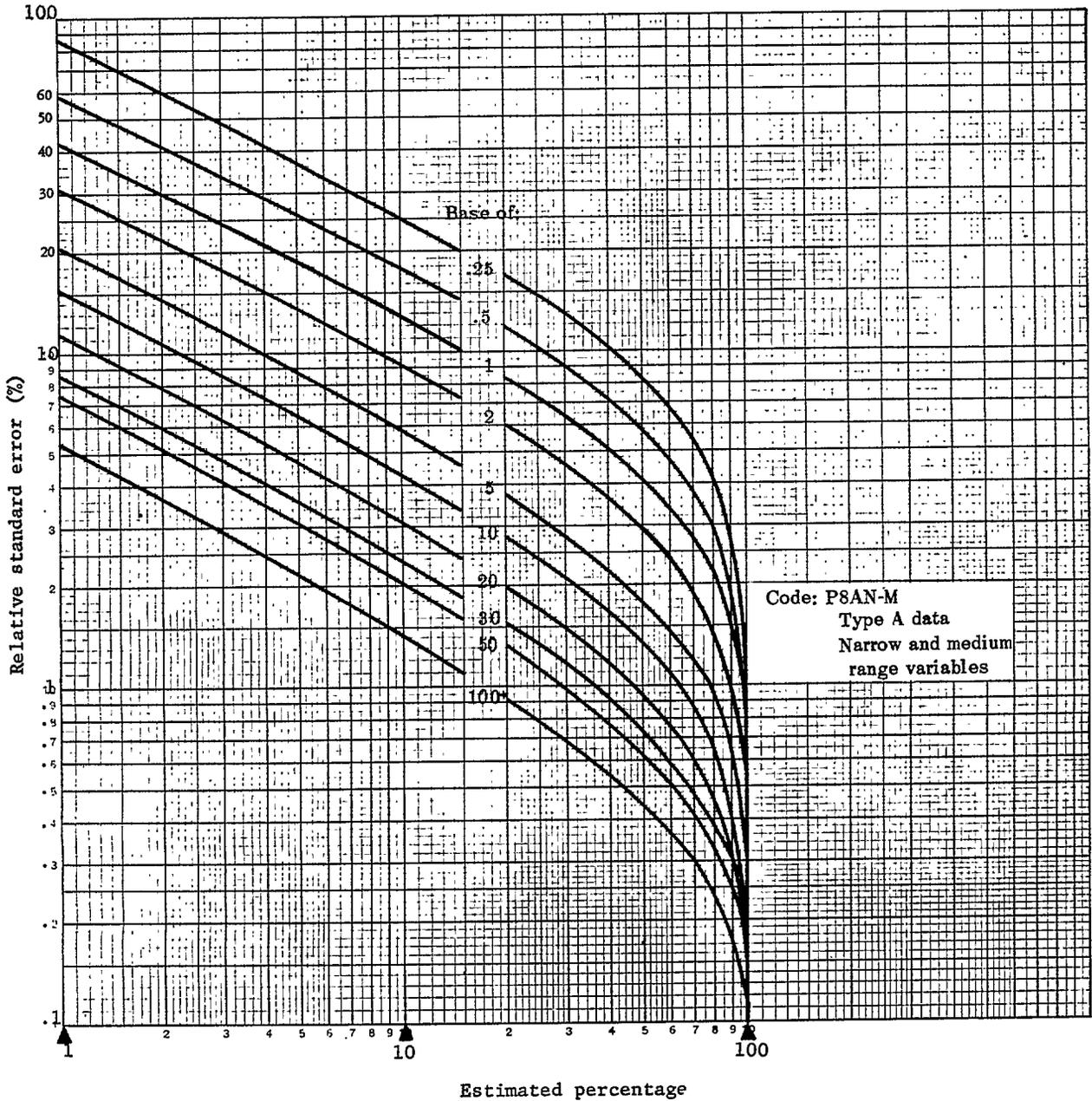
Relative standard errors for aggregates based on eight quarters of data collection
for data of all types and ranges



Example of use of chart: An aggregate of 5,000,000 (on scale at bottom of chart) for a Narrow range type A statistic (code: A8AN) has a relative standard error of 1.9 percent, read from scale at left side of chart, or a standard error of 95,000 (1.9 percent of 5,000,000). For a Wide range type B statistic (code: A8BW), an aggregate of 10,000,000 has a relative error of 9.3 percent or a standard error of 930,000 (9.3 percent of 10,000,000).

Relative standard errors for percentages based on eight quarters of data collection
for type A data, Narrow and Medium range

(Base of percentage shown on curves in millions)



Example of use of chart: An estimate of 20 percent (on scale at bottom of chart) based on an estimate of 10,000,000 has a relative standard error of 2.8 percent (read from the scale at the left side of the chart), the point at which the curve for a base of 10,000,000 intersects the vertical line for 20 percent. The standard error in percentage points is equal to 20 percent X 2.8 percent or 0.56 percentage points.

— ○ ○ ○ —

APPENDIX II

DEFINITIONS OF CERTAIN TERMS USED IN THIS REPORT

Terms Relating to Home Care

Home Care.—Care received at home is defined as any personal assistance or personal services received by the person at home as a result of illness, injury, impairment, or advanced age. The person providing the care may have received a fee for his service or the service may have been provided free. Excluded from the definition of home care is any care provided by a physician. However, care by all other persons whether the latter are professional health workers or not is included. The amount of care varied from constant care for bedridden persons to only partial or intermittent care.

Type of Care Provided.—Type of care provided has been classified into three general categories. These categories with the specific inclusions are as follows:

Personal care:

Walking up stairs or getting from room to room includes assistance either in walking from one room to another or in going up and down stairs. This would include cases where someone must watch or stand behind the person as he walks up the steps in case he falls or stumbles. If the person in bedridden or never attempts to walk from one room to another or to walk up and down stairs, this type care is excluded since this kind of service is not rendered by anyone.

Dressing or putting on shoes includes any care the person receives in dressing and the like because he is unable to dress himself without the help of another person because of some health problem. Not included is help in dressing that is not health related such as the wife who ties her husband's ties because he never learned how to do it properly or the husband who hooks the back of his wife's dress because it is difficult for her to reach.

Bathing (shaving) or other toilet activities includes any assistance the person needs in washing or shaving himself or in using a bedpan and so forth.

Eating or having meals served in bed includes help if the person is unable to eat without assistance or has to have his meals served to him in bed. Not included in this definition is help in preparation of meals.

Medically related care:

Changing bandages includes assistance in changing dressings or bandages.

Receiving injections includes injections received at home from someone other than a doctor.

Other treatments includes all other treatments received from some other person at home such as the application of salves or ointments, wetpacks, etc.

Other types of care:

Changing bed positions

Assistance of another person in order to sit up or turn over in bed is included as other care.

Exercising or physical therapy

Receipt of physical therapy at home or in any exercise performed because of some illness, injury, or impairment is included in this definition.

Cutting toenails

Any other not specified above

Specifically excluded in types of care were (1) any care received by the person *outside* his home, e.g., physical therapy at an outpatient clinic, (2) any care received from a *physician* either at the person's home or at the doctor's office, a clinic, a hospital, etc., and (3) maid service for cleaning, laundry, or preparation of meals.

Duration of care.—The duration of care is the length of time prior to the week of interview that the person received home care.

Extent of Care.—Two major categories used to describe the extent of care received are constant care and partial or intermittent care.

Constant care was provided when the person was never left unattended or alone in the house even for short intervals or during the night. Although

the person providing the care was immediately available at all times, the care did not have to be provided at all times.

Part-time care included any care on a part-time basis. This included care for persons who required constant care during intermittent episodes of a condition.

Provider of care.—Three categories are used to classify provider of home care.

Related household member included any medical or paramedical personnel who were related to the individual requiring care. However, related physicians were excluded from this category as well as the remaining ones.

The second category was that of *registered nurse* who came to the home to provide care.

The final category included all *other persons* providing care such as practical nurses, physical therapists, social workers, etc.

Nurse visits.—Home visits by nurses includes visits from nurses in the past 12 months by any kind of nurse, registered or otherwise.

Terms Relating to Morbidity Conditions

Condition.—A morbidity condition, or simply a condition, is any entry on the supplement which describes a departure from a state of physical or mental well-being. It results from a positive response to "For what condition did you receive this help or care?" It was not practical to collect detailed information about those conditions which would be necessary for International Classification of Disease (ICD) classification. Therefore, the categories used are not identical to ICD categories.

Impairment.—Impairments are chronic or permanent defects, usually static in nature, resulting from disease, injury, or congenital malformation. They represent decrease or loss of ability to perform various functions, particularly those of the musculoskeletal system and the nerve regions. All impairments were classified in the same manner as conditions were. The codes used are not found in the International Classification of Disease and are not comparable to other impairment classifications shown in reports in Series 10 of *Vital and Health Statistics* publications.

Terms Relating to Disability

Chronic activity limitation.—Persons are classified into four categories according to the extent to which their activities are limited at present as a result of chronic conditions. Since the usual activities of preschool children, school-age children, housewives, and workers and other persons differ, a different set of criteria is used for each group. There

is a general similarity between them, however, as will be seen in the following descriptions of the four categories:

1. *Persons unable to carry on major activity for their group* (major activity refers to ability to work, keep house, or go to school)

Preschool children: inability to take part in ordinary play with other children.

School-age children: inability to go to school.

Housewives: inability to do any housework.

Workers and all other persons: inability to work at a job or business.

2. *Persons limited in the amount or kind of major activity performed* (major activity refers to ability to work, keep house, or go to school)

Preschool children: limited in amount or kind of play with other children, e.g., need special rest periods, cannot play strenuous games, or cannot play for long periods at a time.

School-age children: limited to certain types of schools or in school attendance, e.g., need special schools or special teaching or cannot go to school full time or for long periods at a time.

Housewives: limited in amount or kind of housework, i.e., cannot lift children, wash or iron, or do housework for long periods at a time.

Workers and all other persons: limited in amount or kind of work, e.g., need special working aids or special rest periods at work, cannot work full time or for long periods at a time, or cannot do strenuous work.

3. *Persons not limited in major activity but otherwise limited* (major activity refers to ability to work, keep house, or go to school)

Preschool children:	not classified in this category.
School-age children:	not limited in going to school but limited in participation in athletics or other extracurricular activities.
Housewives:	not limited in housework but limited in other activities such as church, clubs, hobbies, civic projects, or shopping.
Workers and all other persons:	not limited in regular work activities but limited in other activities such as church, clubs, hobbies, civic projects, sports, or games.

4. *Persons not limited in activities*

Includes persons with chronic conditions whose activities are not limited in any of the ways described above.

Demographic, Social, and Economic 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.

Family income.—Each member of a family is classified according to the total income of the family of which he is a member. Within the household all persons related to each other by blood, marriage, or adoption constitute a family. Unrelated individuals are classified according to their own income.

The income recorded is the total of all income received by members of the family (or by an unrelated individual) in the 12-month period prior to the week of interview. Income from all sources is included, e.g., wages, salaries, rents from property, pensions, and help from relatives.

Color.—The population is divided into two color groups, "white" and "all other." The "all other" group includes such persons as Negro, American Indian, Chinese, and Japanese and any other race. Mexican persons are included with white unless definitely known to be Indian or of another race.

Living arrangement.—The three categories of living arrangements shown in this report are as follows:

Living alone or with nonrelatives.—Living alone is defined as living in a one-member household. Living with nonrelatives is defined as living in a household with another person or persons none of whom are

related to the person by blood, marriage, or adoption.

Living with relatives—married.—This category includes married persons who are living in a household with another person or persons one or more of whom are related to them by blood, marriage or adoption. Persons with common-law marriage are considered to be married. For purposes of this category "married" excludes widowed, divorced, or separated. Persons whose only marriage was annulled are counted as "never married."

Living with relatives—other.—This category includes children living with parents or relatives; it also includes persons who are widowed, divorced, separated, or never married who are living in a household with another person or persons one or more of whom are related to them by blood, marriage, or adoption. Persons whose only marriage was annulled are counted as "never married." "Separated" refers to married persons who have a legal separation or who have parted because of marital discord.

Usual activity.—All persons in the population are classified according to their usual activity during the 12-month period prior to the week of interview. The "usual" activity, in case more than one is reported, is the one at which the person spent the most time during the 12-month period. Children under 6 years of age are classified as "preschool." All persons aged 6-16 years are classified as "school age."

The categories of usual activity used in this report for persons aged 17 years and over are *usually working*, *usually keeping house*, *retired*, and *other activity*. For several reasons these categories are not comparable with somewhat similarly named categories in official Federal labor force statistics. First, the responses concerning usual activity are accepted without detailed questioning since the objective of the question is not to estimate the numbers of persons in labor force categories but to identify crudely certain population groups which may have differing health problems. Second, the figures represent the usual activity status over the period of an entire year, whereas official labor force statistics relate to a much shorter period, usually 1 week. Third, the minimum age for usually working persons is 17 in the Health Interview Survey, and the official labor force categories include all persons aged 14 or older. Finally, in the definitions of specific categories which follow, certain marginal groups are classified differently to simplify procedures.

Usually working includes persons 17 years of age or older who are paid employees; self-employed in their own business, profession, or in farming; or unpaid employees in a family business or farm. Work around the house or volunteer or unpaid work such as for a church is not counted as working. **Usually keeping house** includes female persons 17 years of age or older whose major activity is

described as "keeping house" and who cannot be classified as "working."

Retired includes persons 45 years old or over who consider themselves to be retired. In case of doubt, a person 45 years of age or older is counted as retired if he or she has either voluntarily or involuntarily stopped working, is not looking for work, and is not described as "keeping house." A retired person may or may not be unable to work.

Other activity includes males 17 years of age or older not classified as "working" or "retired" and females 17 years of age or older not classified as "working," "keeping house," or "retired." Persons aged 17 years and over who are going to school are included in this group.

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 in the U.S. Bureau of the Census, are as follows.

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

Place of residence.—The place of residence of a member of the civilian, noninstitutional population is classified as inside a standard metropolitan statistical area (SMSA) or outside an SMSA and either farm or nonfarm.

Standard metropolitan statistical areas.—The definitions and titles of SMSA's are established by the U.S. Office of Management and Budget with the advice of the Federal Committee on Standard Metropolitan Statistical Areas. There were 212 SMSA's defined for the 1960 decennial census.

The definition of an individual SMSA involves two considerations: first, a city or cities of specified population which constitute the central city and identify the county in which it is located as the central county; second, economic and social relationships with contiguous counties (except in New England) which are metropolitan in character so that the periphery of the specific metropolitan area may be determined. SMSA's are not limited by State boundaries.

Farm and nonfarm residence.—The population residing outside SMSA's is subdivided into the farm population, which comprises all non-SMSA residents living on farms, and the nonfarm population, which comprises the remaining outside SMSA population. The farm population includes persons living on places of 10 acres or more from which sales of farm products amounted to \$50 or more during the previous 12 months or on places of less than 10 acres from which sales of farm products amounted to \$250 or more during the preceding 12 months. Other persons living outside an SMSA were classified as nonfarm if their household paid rent for the house but their rent did not include any land used for farming.

Sales of farm products refer to the gross receipts from the sale of field crops, vegetables, fruits, nuts, livestock and livestock products (milk, wool, etc.), poultry and poultry products, and nursery and forest products produced on the place and sold at any time during the preceding 12 months.



APPENDIX III

HOME CARE PROBE QUESTIONS AND RECORDING FORM

Probe Questions

If person is 55 years old or over, ask: The following questions refer to different kinds of personal care some people need at home:	<input type="checkbox"/> Under 55 (Item C) <input type="checkbox"/> 55 or over (29a)
29a. Does -- need any help at home with injections, shots or other treatments? -----	29a. <input type="checkbox"/> Yes (Item C) <input type="checkbox"/> No
b. Does -- need any help in bathing, dressing or putting on his shoes? -----	b. <input type="checkbox"/> Yes (Item C) <input type="checkbox"/> No
c. Does -- need anyone's help at home when walking up stairs or getting from room to room? -----	c. <input type="checkbox"/> Yes (Item C) <input type="checkbox"/> No
d. Does -- need any help at all in caring for himself? -----	d. <input type="checkbox"/> Yes (Item C) <input type="checkbox"/> No
e. During the past 12 months, has -- received any care at home from a nurse? -----	e. <input type="checkbox"/> Yes (29f & g) <input type="checkbox"/> No (Item C)
f. During this 12-month period, about how many visits did a nurse make to care for --? -----	f. _____ Times
g. Were any of these visits during the past 2 weeks? -----	g. <input type="checkbox"/> Yes (Item C) <input type="checkbox"/> No (Item C)

Recording Form

<p>Earlier in the interview you mentioned that -- needed help of some kind here at home. I am going to read a list of different kinds of personal care some people need in the home. Please tell me if -- needs help in any of the following ways.</p> <p>1a. Does -- need help --</p> <p style="padding-left: 20px;">in walking up stairs or getting from room to room?</p> <p style="padding-left: 20px;">in dressing or putting on shoes?</p> <p>Does -- need help --</p> <p style="padding-left: 20px;">in bathing (shaving) or other toilet activities?</p> <p style="padding-left: 20px;">in eating or having meals served in bed?</p> <p>Does -- need help --</p> <p style="padding-left: 20px;">with changing bandages?</p> <p style="padding-left: 20px;">in receiving injections?</p> <p style="padding-left: 20px;">with other treatments?</p> <p style="padding-left: 20px;">If "Yes," ask: What kinds of treatment?</p> <p>Specify _____</p> <p>Does -- need help --</p> <p style="padding-left: 20px;">in changing bed positions?</p> <p style="padding-left: 20px;">in exercising or physical therapy?</p> <p style="padding-left: 20px;">in cutting toenails?</p> <p>Does -- get any OTHER help or care here at home?</p> <p style="padding-left: 20px;">If "Yes," ask: What kinds of other help or care?</p> <p>Specify _____</p>		No	Yes	For each "Yes," answer to 1a, Ask:				
		1b. Who helps -- ?	Does anyone else help -- ?					
<p>IF PERSON IS NOT RECEIVING CARE (All "No's" to question 1a), reconcile differences between answers in Q. 22 or 23c and Q. 1a above or describe the situation on the front of this form.</p>								
<p>2. For what condition(s) does -- receive this help or care? Specify condition(s) _____</p>								
<p>3. How long has -- received help or care at home? Mark one box:</p> <p style="padding-left: 40px;"> <input type="checkbox"/> 1 month or less <input type="checkbox"/> Over 1 to 6 months <input type="checkbox"/> Over 6 to 12 months <input type="checkbox"/> Over 1 to 3 years <input type="checkbox"/> Over 3 to 5 years <input type="checkbox"/> Over 5 years </p>								
<p>4. Because of --'s health, must someone be in the house with him all of the time, part of the time, or only when providing the needed help or care?</p> <p style="padding-left: 40px;"> <input type="checkbox"/> All of the time <input type="checkbox"/> Part of the time <input type="checkbox"/> Only when providing the needed help or care </p>								
<p>For each person, other than a nurse, listed in 1b, ask:</p> <p>5a. Is -- a nurse, a physical therapist, or some other kind of health worker?</p> <p style="padding-left: 20px;">If "Nurse" reported in Q. 1b or 5a, ask:</p> <p>5b. Is the nurse that cares for -- a registered nurse, a practical nurse, or some other kind of nurse?</p> <p style="text-align: right; padding-right: 20px;">} Determine the type(s) of person(s) providing the care in question 5 and mark appropriate box in column (1) of Table H.</p>								
TABLE H								
Type of persons providing care		During the past two weeks, on about how many days did -- receive help or care from (relative, nurse, etc.)?		About how many hours a day does -- receive help or care from (relative, nurse, etc.)?			Is (relative, nurse, etc.) paid for these services?	
		(2)		(3)			(4)	
		Days	Don't know	Hours	Less than 1 hour	Don't know	Yes	No
NON-HEALTH WORKERS	A. <input type="checkbox"/> Related household members							
	B. <input type="checkbox"/> Related persons not in household							
	C. <input type="checkbox"/> Friend or neighbor							
	D. <input type="checkbox"/> Other							
Specify _____								
HEALTH WORKERS	E. <input type="checkbox"/> Nurse - Registered							
	F. <input type="checkbox"/> Nurse - Practical or other							
	G. <input type="checkbox"/> Physical therapist							
	H. <input type="checkbox"/> Other - Specify _____							
Specify _____								
<p>INTERVIEWER: Mark the appropriate box before going to Q's 6-8.</p> <p style="padding-left: 20px;"> <input type="checkbox"/> Person 65+ and "Yes" in column (4). Ask Q's 6, 7, and 8. <input type="checkbox"/> Person 55-64 and "Yes" in column (4). Ask Q's 7 and 8. <input type="checkbox"/> All "No's" in column (4) or only "A" checked in column (1) of Table H. Skip to question 8. </p>								
<p>6. Are any of these services paid for by Medicare? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know</p>								
<p>7a. Who pays (the remainder of the bill) for these services?</p> <p style="padding-left: 20px;"> <input type="checkbox"/> Self or family <input type="checkbox"/> Agency or organization (Visiting Nurses Association, etc.) <input type="checkbox"/> Other relative or friend <input type="checkbox"/> Welfare <input type="checkbox"/> Health insurance <input type="checkbox"/> Other - Specify _____ </p>								
<p>8a. During the past 12 months, has -- received any care at home from a nurse? <input type="checkbox"/> Yes - Ask 8b <input type="checkbox"/> No - STOP</p>								
							Number of visits	
<p>b. During the past 12 months, ABOUT how many visits did a nurse make to care for --?</p>								

VITAL AND HEALTH STATISTICS PUBLICATION SERIES

Formerly Public Health Service Publication No. 1000

- Series 1. Programs and collection procedures.*—Reports which describe the general programs of the National Center for Health Statistics and its offices and divisions, data collection methods used, definitions, and other material necessary for understanding the data.
- Series 2. Data evaluation and methods research.*—Studies of new statistical methodology including: experimental tests of new survey methods, studies of vital statistics collection methods, new analytical techniques, objective evaluations of reliability of collected data, contributions to statistical theory.
- Series 3. Analytical studies.*—Reports presenting analytical or interpretive studies based on vital and health statistics, carrying the analysis further than the expository types of reports in the other series.
- Series 4. Documents and committee reports.*—Final reports of major committees concerned with vital and health statistics, and documents such as recommended model vital registration laws and revised birth and death certificates.
- Series 10. Data from the Health Interview Survey.*—Statistics on illness, accidental injuries, disability, use of hospital, medical, dental, and other services, and other health-related topics, based on data collected in a continuing national household interview survey.
- Series 11. Data from the Health Examination Survey.*—Data from direct examination, testing, and measurement of national samples of the civilian, noninstitutional population provide the basis for two types of reports: (1) estimates of the medically defined prevalence of specific diseases in the United States and the distributions of the population with respect to physical, physiological, and psychological characteristics; and (2) analysis of relationships among the various measurements without reference to an explicit finite universe of persons.
- Series 12. Data from the Institutional Population Surveys.*—Statistics relating to the health characteristics of persons in institutions, and their medical, nursing, and personal care received, based on national samples of establishments providing these services and samples of the residents or patients.
- Series 13. Data from the Hospital Discharge Survey.*—Statistics relating to discharged patients in short-stay hospitals, based on a sample of patient records in a national sample of hospitals.
- Series 14. Data on health resources: manpower and facilities.*—Statistics on the numbers, geographic distribution, and characteristics of health resources including physicians, dentists, nurses, other health occupations, hospitals, nursing homes, and outpatient facilities.
- Series 20. Data on mortality.*—Various statistics on mortality other than as included in regular annual or monthly reports—special analyses by cause of death, age, and other demographic variables, also geographic and time series analyses.
- Series 21. Data on natality, marriage, and divorce.*—Various statistics on natality, marriage, and divorce other than as included in regular annual or monthly reports—special analyses by demographic variables, also geographic and time series analyses, studies of fertility.
- Series 22. Data from the National Natality and Mortality Surveys.*—Statistics on characteristics of births and deaths not available from the vital records, based on sample surveys stemming from these records, including such topics as mortality by socioeconomic class, hospital experience in the last year of life, medical care during pregnancy, health insurance coverage, etc.

For a list of titles of reports published in these series, write to:

Office of Information
National Center for Health Statistics
Public Health Service, HSMHA
Rockville, Md. 20852

DHEW Publication No. (HSM) 72-10 62

**U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Health Services and Mental Health Administration
5600 Fishers Lane
Rockville, Maryland 20852**

**POSTAGE AND FEES PAID
U.S. DEPARTMENT OF HEW**



**OFFICIAL BUSINESS
Penalty for Private Use \$300**