## Family Health Expenses

## United States - July - December 1962

Statistics on the annual health expenses of families and unrelated individuals, by type of expense, type of family, geographic region, color, family income, and education of head of family. Based on data collected by self-enumeration during July-December 1962.

Washington, D.C.

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

In accordance with specifications established by the National Health Survey, the Bureau of the Census, under a contractual arrangement, participates in most aspects of survey planning, selects the sample, collects the data, and carries out certain parts of the statistical processing.

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IN THIS REPORT statistics are presented on the average annual cost of personal health expenses per family and per unrelated individual. Information on health expenses is presented by type of expenditure: hospital care, doctor care, dental care, medicines, and special und other health expenses. Information on 47 million families in the civilian, noninstitutional population is classified by size of family, whether husbandwife family or other family group, and by age of head of the family. Information on 10.8 million unrelated individuals is classified by age, sex, and whether living alone or with nonrelatives. These data were collected by self-enumeration, employing mail-in questionnaires left with the respondents of health interviews conducted during July-December 1962.

Annual health expenses per family or unrelated individual are shown by geographic region, color, family income, and education of head of the family.

Two earlier reports from the Health Interview Survey present data on health expenses, on a person basis, during the year prior to JulyDecember 1962 (Vital and Health Statistics, Sevies 10, Nos. 22 and 27). The present report deals with these data on a family basis. It presents background data relative to information on health expenses now being collected in the Health Interview Survey.

| SYMBOLS |  |
| :---: | :---: |
| Data not available- | --- |
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|  | - |
| Quantity more than 0 but less than $0.05-\ldots-$ | 0.0 |
| Figure does not meet standards of reliability or precision | * |

# FAMILY HEALTH EXPENSES 

Charles S. Wilder, Division of Health Interview Statistics

## INTRODUCTION

During July-December 1962, the Health Interview Survey collected information on personal health expenditures during the year prior to interview. Health expenses included in the survey were of five types-hospital, doctor, medicine, dental, and special and other expenses. Health expenses included amounts paid or to be paid by the family or friends or by insurance but excluded insurance premiums and expenses paid by governmental or private agencies. Thus, these health expenditures are consumer out-of-pocket expenses plus benefits received from insurance. Results of this survey have been published on a person basis in "Personal Health Expenses, Distribution of Persons by Amount and Type of Expenses," Vital and Health Statistics, Series 10, No. 22, and in "Personal Health Expenses, Per Capita Annual Expenses," Vital and Health Statistics, Series 10, No. 27.

In the present report the data on health expenditures are presented for families and unrelated individuals. The information for persons in the civilian, noninstitutional population during the interview period was collected within each interviewed household by family group. A family is defined as two or more persons related by blood, marriage, or adoption who are living together in the same household. Members of the Armed Forces, excluded by definition from the civilian, noninstitutional population, are not counted in classifying the family group even if they live with the family. Thus the number of families will differ
from other family statistics in which these persons are considered family members. Data for any unrelated individuals who were living in the household were excluded from the family and classified separately. Annual per family estimates of health expenses were prepared by summing the reported expenditures for which all members of the family responded with known information (a dollar amount or no expense, but not a nonresponse or unknown amount) and dividing by the number of families with known data for all members of the family. This procedure imputes to the families with less than complete reporting the same distribution of health expenditures as that reported for families with known data for the entire membership. About 92.4 percent of all families and unrelated individuals reported known data for hospital expense. The estimates for special and other expense are based on 90.0 percent of all families, while the data for doctor, dental, and medicine expense per family are based on known data for 91.8 percent of all families and individuals.

The information on health expenditures was collected through the use of a mail-in questionnaire left with the household respondents of health interviews. Information on health expenses was obtained for about 94 percent of the population of households in which interviews were conducted. Thus collection of the housphold membership into families and unrelated individuals does not add appreciably to the loss of information from nonresponse or reports of unknown expense. It is apparent that known amounts were reported for all members of most families.

## SOURCE AND LIMITATIONS OF DATA

During the 6 -month period from July to December 1962 a special survey was conducted of the expenses for personal health carefor persons in the civilian population not residing in institutions. The information was obtained by self-enumeration, that is a mail-in questionnaire was left with the respondent during the household health interview. All family members were requested to take part in answering the questions about personal health expenditures during the year prior to the interview. It was suggested that bills, receipts, and other records be consulted to obtain the best estimate of expenditures for each person. After the questionnaire was completed, it was mailed to the U.S. Bureau of the Census, which acts as a data-collecting agent for the Division of Health Interview Statistics of the National Center for Health Statistics. If no form was returned or if information was missing, followup by telephone was conducted. Through this procedure, information was obtained for about 94 percent of the population in the interviewed households. Of responding households 52 percent returned the original form left with the household, 35 percent returned the first or second followup form, and 9 percent answered telephone followup. About 4 percent responded after unknown type of followup.

The information about medical care expenses for each member of the sample population included five categories; doctors' bills, hospital bills for inpatients, medicine costs, dental bills, and special and other medical expenses. The expenses included all bills paid or to be paid by the person himself or his family or friends and any part paid by insurance, whether paid directly to the hospital or doctor or refunded to the person himself or his family. The respondents were requested to enter known amounts of expense or, if exact amounts were unknown, the best estimates available. The following classes of expenditure or payer were omitted: (1) health insurance premiums, (2) workmen's compensation, (3) charitable or welfare organizations, (4) military services (including Armed Forces Medicare), (5) Veterans Administration, and (6) Federal, State, city, or county government. Medical care costs relating to delivery were reported for the mother; other
medical expenses relating to the infant were raported for the infant.

The health expense data apply to members of the civilian, noninstitutional population living at the time of the household interview. Thus medical care expenses of persons residing in institutions and of former household members who had died prior to the date of interview were excluded.

The interviewed population is a representative probability sample of the Nation's households. During the 6 -month period July-December 19112 the sample was composed of about 22,000 households containing about 71,000 persons living at the time of the interview. The average population du:ing this period was $182,449,000$. There we::e $10,799,000$ unrelated individuals and 47,002,000 families of various sizes included in the civilian, noninstitutional population.

Although the population covered by the Health Interview Survey (HIS) is the civilian, noninstitutional population of the United States, a member of the Armed Forces who is living in a household as a family member is excluded from the family composition. Even though he is the acknowledged head of the family, for purposes of the survey some other person, usually the wife if she is living in the household, is classified as the head of the family. If he and his wife are living together as a two-member husband-wife family, she is classified as an individual in HIS data.

A brief description of the statistical design of the survey, the methods of estimation, and the general qualifications of the data obtained from the survey is presented in Appendix I. Since $\varepsilon$ ll the data included in this report are estimates based on a sample rather than on the entire population, they are subject to sampling errors. While the sampling errors for most of the estimates are of relatively low magnitude, where an estimated number or the numerator or denominator of a rate or percentage is small, the sampling error may be high. Charts from which approximate sampling errors may be estimated and instrui-tions for their use are contained in the section entitled "Reliability of Estimates" in Appendix I.

Definitions of certain terms used in this report are in Appendix II. Since many of the terms have specialized meanings for the purposes of the survey, it is suggested that the reader familiarize himself with these definitions.

Table A. Number and percent distribution of unrelated individuals, by age according to living arrangements: United States, July-December 1962

| Living arrangement | All <br> ages | $\begin{aligned} & \text { Under } \\ & 45 \\ & \text { years } \end{aligned}$ | $45-64$ years | $\begin{gathered} 65+ \\ \text { years } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Total | Number in thousands |  |  |  |
| Living alone----------- | $\begin{aligned} & 8,312 \\ & 2,487 \end{aligned}$ | $\begin{aligned} & 1,920 \\ & 1,236 \end{aligned}$ | $\begin{array}{r} 2,775 \\ 708 \end{array}$ | $\begin{array}{r} 3,617 \\ 543 \end{array}$ |
| Total- | Pe 100.0 | ent dis 29.2 | ributi 32.3 | $38.5$ |
| Living alone-- | 77.0 | 17.8 | 25.7 | 33.5 |
| Living with nonrelatives | 23.0 | 11.4 | 6.6 | 5.0 |

The basic health questionnaire used during July 1962-June 1963 is shown as Appendix III in "Current Estimates from the Health Interview Survey, United States, July 1962-June 1963," Vital and Health Statistics, Series 10, No. 5. Appendix III of this report shows a facsimile of the supplemental mail-in questionnaire and the covering letter, the general instructions, and a sample page used for each member of the family.

## FAMILIES AND UNRELATED INDIVIDUALS

There were an estimated 55 million households in the United States in 1962. ${ }^{1}$ A household includes all persons who occupy a house, an apartment, a group of rooms, or a room which constitutes a housing unit under the rules established for the 1960 census. A group of rooms or a single room is regarded as a housing unit when it is occupied as separate living quarters, that is when the occupants do not live and eat with any other persons in the structure, and when there is either: direct access from the outside or through

[^2]a common hall or a kitchen or cooking equipment for the exclusive use of the occupants.

For this report the civilian, noninstitutional population was grouped into families and unrelated individuals. During July-December 1962 there were an estimated 10.8 million unrelated individuals and 47.0 million families. An unrelated individual is classified in the detailed tables of this report as living alone and living with nonrelatives and by age. Families are classified according to size of family, by composition of family (husband and wife with or without a child under 17 years of age or "other family group"), and by age of the head of the family. An "other family group" consists of two or more related persons living together, for example a widow and her daughter or a divorced male and his brother. Individual or family status was determined on the basis of the living arrangement existing at the time of interview.

Table A shows the population of unrelated individuals by age and living arrangements, and table $B$ shows the population of families by various characteristics. The total number of individuals shown in table A is less than the number of " 1 member" families shown in table 15 in vital and Health Statistics, Series 10, No. 27, page 37. In assembling the family data, it was discovered that

Table B. Number and percent distribution of families by age of head and by family composition according to size of family: United States, July-December 1962

| Age of head and composition of family | Size of family |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mid \underset{\text { families }}{\text { All }}$ | 2 | 3 | 4 | 5 | $6+$ |
|  | Number in thousands |  |  |  |  |  |
| Total | 47,002 | 16,152 | 9,436 | 9,164 | 5,869 | 6,381 |
| Age of head |  |  |  |  |  |  |
|  | 22,809 | 3,652 | 4,394 | 6,030 | 4,227 | 4,506 |
| 45-64 years- | 17,441 | 7,439 | 3,970 | 2,825 | 1,495 | 1,712 |
|  | 6,752 | 5,061 | 1,073 | 309 | 146 | 163 |
| Family composition |  |  |  |  |  |  |
| Husband-wife--------------------------- | 40,321 | 12,917 | 7,894 | 8,340 | 5,404 | 5,766 |
| Child under 17 years----------------- | 23,442 |  | 4,888 | 7,554 | 5,271 | 5,729 |
| No child under 17 years------------- | 16,879 | 12,917 | 3,006 | 785 | 133 |  |
| Other family group--------------------- | 6,681 | 3,235 | 1,542 | 825 | 464 | 615 |
|  | 1,456 | 831 | 1, 346 | 124 | 61 | 93 |
| Female head | 5,225 | 2,404 | 1,197 | 700 | 403 | 522 |
|  | Percent distribution |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | 48.5 | 22.6 | 46.6 | 65.8 | 72.0 | 70.6 |
|  | 37.1 | 46.1 | 42.1 | 30.8 | 25.5 | 26.8 |
|  | 14.4 | 31.3 | 11.4 | 3.4 | 2.5 | 2.6 |
| Family composition |  |  |  |  |  |  |
| Husband-wife--------------------------- | 85.8 | 80.0 | 83.7 | 91.0 | 92.1 | 90.4 |
| Child under 17 years----------------- | 49.9 |  | 51.8 | 82.4 | 89.8 | 89.8 |
| No child under 17 years--.----------- | 35.9 | 80.0 | 31.9 | 8.6 | 2.3 |  |
|  | 14.2 | 20.0 | 16.3 | 9.0 | 7.9 | 9.6 |
|  | 3.1 | 5.1 | 3.7 | 1.4 | 1.0 | 1.5 |
| Female head---------------------------- | 11.1 | 14.9 | 12.7 | 7.6 | 6.9 | 8.2 |

a group of persons who were classified by size of family as " 1 member" were in fact members of families. In the present report these persons are included with the families of two persons or more of which they were members at the time of interview. Although the reduction in the population of individuals amounted to about 800,000 persons the change in annual per capita expense was neg-
ligible ( $\$ 181$ for the present data compared with $\$ 178$ for the previously published data).

According to Bureau of the Census data, in March 1962 there were $11,522,000$ unrelated individuals; ${ }^{1}$ table A shows $10,799,000$ for a period centered at October 1962. According to Census data for March 1962 there were $46,341,000$ families, and the Health Interview Survey estimate

Table C. Annual health expense per family or unrelated individual and percent distribution, by type of expense: United States, July-December 1962

| Type of expense | Family | Percent distribution |  | Percent distribution |
| :---: | :---: | :---: | :---: | :---: |
| Total | Annual health expense |  |  |  |
|  | \$453 | 100 | \$181 | 100 |
| Hospital | 106 | 23 | 40 | 22 |
| Doctor- | 153 | 34 | 57 | 31 |
| Dental---- | 67 89 | 15 20 | 24 38 | 13 |
| Special and othe | 37 | 8 | 22 | 12 |

for the later period is $47,002,000$. The distributions by type of family may be compared as follows:

| Type of family | Bureau of the Census data | Health Interview Survey data |
| :---: | :---: | :---: |
| Total families----- | 46,341,000 | 47,002,000 |
| Husband-wife families--.- | 40,405,000 | 40,321,000 |
| Other family groupmale head- | 1,293,000 | I,456,000 |
| Other family groupfemale head | 4,643,000 | 5,225,000 |

The similarity in totals and distributions between these sets of data is not purely coincidental. The definitions and sampling procedures for the two sources of data are quite similar. However, there is a source of difference in the inclusion by the Census of members of the Armed Forces living off post or with other families on post. Armed Forces personnel are excluded by HIS from the civilian noninstitutional population. Another difference is the method of classifying college students living away from home during the school year. The Health Interview Survey classifies these persons as individuals, and the Bureau of the Census classifies them as members of the family at the home address.

## HEALTH EXPENSES

## All Families and Individuals

The average annual total health expense during the 12 -month period prior to the household interviews of July-December 1962 among the $47,002,000$ families was $\$ 453$ (table 1). The comparable total for unrelated individuals was $\$ 181$. Thus among all family units and individuals the average health expenditure per year was $\$ 403$ per unit. The latter estimate for family units of one or more persons (unrelated individuals plus families) may be compared with the annual estimate of $\$ 370$ for family health expenditures which the Health Information Foundation reported on its 1963 survey of the civilian, noninstitutional popuIation of the United States. ${ }^{2}$

The annual expense per family of $\$ 453$ and of $\$ 181$ per unrelated individual is distributed by type of expense in table C. The largest percentage of annual health expense was for doctor's charges; hospital expense was the second leading item. Hospital expenses included charges made during the year prior to interview for services to an inpatient during stays of overnight or longer in a hospital or nursing home. Doctor expense included charges

[^3]

Figure 1. Total heal th expense per family or unrelated individual per year, by size of family.
for services rendered by physicians, surgeons, and osteopaths during the year. Medicine expense included cost of medicines whether or not prescribed by a doctor. Dental expense included all charges for services rendered by dentists for dental care during the year. Special and other expense included charges for eyeglasses, hearing aids, corrective shoes, special braces or trusses, wheelchairs or artificial limbs, special nursing, physical therapy, speech therapy, services of chiropractors, and emergency room or outpatient services in a hospital or clinic.

In general as size of family increased, the annual amount spent for health services rose accordingly. However, as shown in figure 1, the rise in expense was not constant with increased family size. Average annual spending for medical services for a two-person family was more thantwice that for an individual. As family size increased from two to six or more members, the increment of increase was considerably less than that for one to two persons. The average annual total amount for a two-member family was
$\$ 381$; it rose about 46 percent to $\$ 556$ for a family with six members or more. Health expenses per person vary substantially by age and sex, as shown in table 1 of Series 10, No. 27. If one takes into account the age and sex distribution of the members of families and applies the per capita expenses to this distribution, it can be seen that a constant increase in family health costs with increasing family size is not to be expected. For example, the usual five-member family is composed of a husband and wife and three children. If, for instance, the parents in this family are aged 25-44 and the children are under 17 years of age, then summing per capita amounts gives a total family expense of $\$ 470$. This amount compares quite closely with the average of $\$ 499$ for all fivemember families.

Figure 2 shows the annual expense per family unit by size of family for each of the five categories of health expense. Doctor expense showed the largest amount of increase with rise in size of family; special and other expense remained quite stable for each size group. Figure 3 shows the same data as a percent distribution of total annual health expense per family unit by type of


Figure 2. Health expenses per family or unrelated individual per year, by type of expense and size of family.
expense. Doctor expense ranged from 32 to 35 percent of the total annual health expense. Hospital expense was the second largest expense item, representing 22-25 percent of the total.

Differences in the amount of spending for health items are related to the use of services by family members. More family members utilize the services of a doctor or dentist than require hospital care or need items of special and other expensc. This is evidenced by data published in Series 10, No. 22. About 12 persons per 100 reported hospitalization expense and 24 per 100 had special and other expense compared with 61 per 100 with doctor expense, 67 per 100 with medicine expense, and 38 per 100 with dental expense. Similar information is shown in table $D$ by size of family and family composition. About 87 percent of all families had some medicine expense, 85 percent had doctor expense, 66 percent had dental expense, 53 percent had special and other expense, and 33 percent had hospital expense.

Average expense per family unit with some expense may be computed by using data in tables D and 1. For example, the average hospital expense for two-person families in table 1 was $\$ 92$ among $16,152,000$ such families. For four-person families the average was $\$ 110$ for $9,164,000$ families. However, table D shows that 23.7 percent of the two-person families had hospital expense compared with 36.6 percent of the four-person families. Among the two-person families the total hospital expense was $\$ 1.49$ billion ( $\$ 92$ for $16,152,000$ families), and 23.7 percent of the $16,152,000$, or $3,828,000$, had hospital expense. Thus the average per two-person family with hospital expense was $\$ 388$. Among four-person families with hospital expense the average was $\$ 301$. The exclusion from this computation of families with no hospital expense during the year changed the pattern and amount of expense considerably.

The 40.3 million husband-wife families had considerably greater average family expense than did the 6.7 million other family groups, $\$ 472$ compared with $\$ 334$ (tables B and E). The difference in annual rate of spending between these composition classes was greatest for doctor expense and least for special and other expense. Within the other family groups the health expense was higher if the head of the family was a male than if the head was a female. The lower health expense for families with a female head may be attributed to


Figure 3. Percent distribution of total health expense per family or unrelated individual per year, by type of expense according to size of family.
some extent to the exclusion of Armed Forces personnel from these data. Since these families would usually be covered by Armed Forces Medicare, their out-of-pocket consumer health expense would be less. Some of the difference in average family expense results from differing percentages of families with some expense and, conversely, those with no expense. For example, 87 percent of all husband-wife families and 72 percent of other family groups had some doctor expense (table D). The average amount of doctor expense was $\$ 161$ in all husband-wife families and $\$ 103$ in all other family groups, a difference of $\$ 58$ (table E). Averages based on families with some doctor expense amount to $\$ 185$ for husband-wife families and $\$ 142$ for other family groups, a difference of $\$ 43$. Thus the higher proportion of family units with no doctor expense among the other family groups reduced the difference in average amount of doctor expense by $\$ 15$ per family per year.

Within the husband-wife families there was a substantial difference in spending for health care depending on whether the husband and wife had a child (including an adopted child, a foster child, or a ward, but excluding a grandchild) living with them or whether the family did not have a child

Table D. Percent of families and unrelated individuals with some health expense, by type of expense, size and composition of family: United States, July-December 1962

| Size and composition of family | Type of expense |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hos pital | Doctor | Dental | Medicine | $\begin{gathered} \text { Special } \\ \text { and } \\ \text { other: } \end{gathered}$ |
|  | Percent with some health expense |  |  |  |  |
|  | 29.1 | 79.4 | 60.6 | 83.8 | 49:4 |
| Unrelated individual | 10.8 | 54.4 | 35.3 | 68.0 | 32.9 |
| All familie | 33.3 | 85.1 | 66.1 | 87.4 | 53.2 |
| Husband-wife- | 34.7 | 87.1 | 67.8 | 88.9 | 54.3 |
|  | 25.0 | 72.3 | 55.6 | 78.3 | 46.0 |
|  | 23.7 | 78.3 | 52.9 | 84.3 | 50.1 |
| Husband-wife | 24.6 | 79.6 | 53.0 | 85.4 | 51.3 |
|  | 20.0 | 72.8 | 52.5 | 79.7 | 44.9 |
|  | 32.7 | 85.9 | 68.0 | 88.2 | 53.3 |
|  | 34.2 | 88.1 | 70.1 | 89.8 | 54.4 |
| Child under 17 | 36.7 | 89.1 | 71.3 | 90.5 | 49.7 |
| No child under 17 | 30.2 | 86.6 | 67.9 | 88.7 | 62.1 |
| Other family group | 24.3 | 73.2 | 56.9 | 79.5 | 47.1 |
| 4 person family | 36.6 | 90.5 | 77.6 | 90.6 | 56.3 |
| Husband-wife | 37.4 | 92.4 | 79.0 | 92.1 | 56.9 |
| Child under 17 | 37.3 | 92.5 | 79.5 | 92.3 | 55.5 |
| No child under 17 | 38.3 | 90.9 | 73.5 | 91.3 | 69.8 |
|  | 27.9 | 70.4 | 63.2 | 74.7 | 50.7 |
|  | 44.4 | 89.6 | 73.9 | 88.6 | 54.9 |
|  | 44.9 | 91.3 | 75.4 | 89.8 | 56.0 |
|  | 45.1 | 91.4 | 75.5 | 89.9 | 56.0 |
| No child under 17 | 37.0 | 82.8 | 66.2 | 82.6 | 54.4 |
|  | 38.9 | 71.3 | 57.7 | 74.8 | 43.9 |

under 17 years of age. As shown in table 1 , the health expense per family with three persons or more is less in most categories if the family included a child than if the family had no child. The pattern is not as clear-cut among families with five members or more. In larger families there is a possibility that the members other than the hus-
band and wife may all be children under 17, children of various ages, or children and other rel.itives of several generations.

In general as age increased, health expense rose. As shown in tables 1 and $F$, health expens are higher among families whose head of family was aged $45-64$ years than among those with a

Table E. Health expense per family per year, by type of expense, size and composition of family: United States, July-December 1962

| Size and composition of family | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Hospital | Doctor | Dental | Medicine | $\begin{aligned} & \text { Special } \\ & \text { and } \\ & \text { other } \end{aligned}$ |
|  | Expense per family per year |  |  |  |  |  |
|  | \$453 | \$106 | \$153 | \$67 | \$89 | \$37 |
| Husband-wife | 472 | 111 | 161 | 69 | 92 | 38 |
| Other family group | 334 | 76 | 103 | 51 | 72 | 32 |
| Male head----. | 373 | 93 | 112 | 53 | 77 | 38 |
| Female head-2 | 323 | 71 | 100 | 51 | 71 | 30 |
| 2 person family | 381 | 92 | 121 | 46 | 85 | 38 |
| Husband-wife- | 400 | 97 | 128 | 47 | 89 | 39 |
| Other family group | 304 | 70 | 93 | 42 | 69 | 30 |
| Male head--- | 303 | 73 | 91 | 45 | 65 | 29 |
| Female head | 304 | 69 | 93 | 42 | 70 | 31 |
| 3 person family- | 442 | 102 | 153 | 65 | 87 | 35 |
| Husband-wife | 463 | 108 | 163 | 66 | 90 | 36 |
| Other family group | 323 | 69 | 96 | 57 | 71 | 30 |
| Male head---- | 441 | 128 | 129 | 42 | 98 | 44 |
| Female head | 288 | 52 | 87 | 61 | 63 | 26 |
| 4 person family | 495 | 110 | 170 | 86 | 91 | 38 |
| Husband-wife | 507 | 114 | 176 | 87 | 93 | 37 |
| Other family group | 367 | 69 | 113 | 72 | 71 | 42 |
| Male head-m-n-o. | 492 | 93 | 145 | 112 | 86 | 56 |
| Female head | 347 | 65 | 108 | 65 | 69 | 40 |
| $5+$ person family-- | 529 | 126 | 186 | 83 | 96 | 38 |
| Husband-wifem | 538 | 127 | 190 | 85 | 97 | 39 |
| Other family group | 416 | 109 | 136 | 55 | 86 | 30 |
| Male head-- | 519 | 126 | 160 | 81 | 92 | 61 |
| Female head- | 400 | 106 | 132 | 51 | 85 | 25 |

younger family head. Among families with a head aged 65 years and over the average expense is higher in some instances and lower in other instances. Age of the head of the family may be used as an index of increasing age among family members. Even though these data do not show ages of other members of the family, an older head of a family usually indicates the presence of other
older persons in the group. For example, three out of four of the families with the head aged 65 were two-person families and most of these twoperson families were husband-wife families. The effect on family health expense of the presence or absence in the family of older persons is exemplified by the information shown in table $G$.

Table $F$. Health expenses per family per year, by type of expense, age of head, and composition of family: United States, July-December 1962

| Age of head and composition of family | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Hos- <br> pital | Doctor | Dental | Medicine | Special and other |
|  | Expense per family per year |  |  |  |  |  |
| A11 families---------------------- | \$453 | \$106 | \$153 | \$67 | \$89 | \$37 |
|  | 436 | 102 | 159 | 68 | 79 | 28 |
| Head 45-64 years-- | 477 | 109 | 153 | 75 | 95 | 46 |
| Head 65 years and over | 450 | 114 | 137 | 43 | 111 | 46 |
| All husband-wife families-------- | 472 | 111 | 161 | 69 | 92 | 38 |
|  | 457 | 107 | 169 | 71 | 82 | 29 |
| Head 45-64 years- | 494 | 113 | 159 | 77 | 97 | 47 |
|  | 464 | 115 | 143 | 42 | 114 | 48 |
| Other family groups---------------- | 334 | 76 | 103 | 51 | 72 | 32 |
|  | 278 | 60 | 90 | 53 | 51 | 23 |
|  | 359 | 74 | 112 | 55 | 82 | 37 |
| Head 65 years and over------------------ | 399 | 107 | 113 | 43 | 97 | 40 |

Figure 4 shows the percent distribution of the total annual health expense for each type of expense by age of head of the family and for various composition groups. Doctor expense is the largest item of expense with 36.5 percent of the total for families with head of family under 45
years of age compared with 32.1 percent and 30.4 percent for families with head aged 45-64 years and 65 years or more respectively. All husbandwife families spent 34.1 percent of their total health expense for doctor's bills. However, if they had a child under 17 years, this percentage in-

Table G. Average annual health expense for 2 person families, by age and type of expense: United States, July-December 1962

| Type of expense |
| :--- |

creased to 35.7 percent, and if nochild was present, it decreased to 31.9 percent. (These families with no child under 17 years include families consisting of husband and wife only.) Other family groups spent about 30.8 percent of the total for doctor expense.

Differences in spending patterns for health care among various family composition groups may be attributed to a variety of causes. Family income and education are shown to be related to health spending patterns in Series 10, Nos. 22 and 27. These factors will be discussed below. In addition it is apparent that individual needs for medical services vary by age and sex of the family members; older persons spend more than younger persons do and females tend to spend more than males, particularly during the age span 15-44.

Tables 1 and $H$ show annual health expenses per unrelated individual. The decline in spending among persons 65 years and older for some of the expense types may reflect withdrawal of persons from this group of unrelated individuals who became residents of institutions or went to live with relatives because they were no longer able to care for themselves. For example, a widow may have entered a nursing home or have gone to live with


Figure 4. Percent distribution of total health expense per family per year, by type of expense according to family characteristics.
one of her children when she was not able to live alone. Since persons who are forced to change their living arrangements for health reasons obviously have higher health expenditure, their removal from the group of unrelated individuals reduces the average expenses for the group.

## Geographic Region

Annual health expenses per family were highest in the West Region and lowest in the South Region (tables $J$ and 2). The excess spending in the West occurred primarily for doctor expense. As shown in table 2, spending for health care was highest in the West Region for each size of family and for husband-wife families. Among some of the "other family groups," the spending pattern was not clear-cut among the regions.

Unrelated individuals living in the West Region had somewhat higher health expenses per person than did such persons in the other regions (table H). Again, doctor expense was clearly higher in the West than elsewhere; also special and other expense was substantially greater among individuals residing in the West.

## Color

Tables H, J, and 3 show that white families and unrelated indiViduals spent more for health care of each type than did nonwhite families and individuals. This spending pattern is also present in most of the groups by family size and composition. As shown in Series 10, No. 27, utilization of medical care services is lower among nonwhite persons than among white persons, a finding which explains some of the lower health expense. This publication also shows the relationship between color and income and color and education. Each of these factors contributes to the differential spending by color groups.

## Family Income

Rise in family income is related directly to increased health expense per family. This increased spending among higher income groups was present for each of the types of expense, notably for dental expense (table J). A similar pattern was also present among the family-size groups

Table H. Health expenses per unrelated individual per year, by type of expense and characteristics: United States, July-December 1962


Table J. Health expenses per family per year, by type of expense, geographic region, color, family income, and education of head of family: United States, July-December 1962

| Characteristic | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Hospital | Doctor | Dental | Medicine | $\begin{gathered} \text { Special } \\ \text { and } \\ \text { other } \end{gathered}$ |
|  | Expense per family per year |  |  |  |  |  |
| All families | \$453 | \$106 | \$153 | \$67 | \$89 | \$37 |
| Northeast-m-. | 474 | 102 | 155 | 85 | 94 | 38 |
| North Central | 431 | 116 | 1.43 | 57 | 79 | 36 |
| South | 419 | 96 | 143 | 51 | 94 | 35 |
| West | 526 | 112 | 190 | 88 | 92 | 44 |
| White | 468 | 109 | 158 | 70 | 92 | 39 |
|  | 308 | 78 | 108 | 32 | 68 | 22 |
| Family income |  |  |  |  |  |  |
|  | 13 | 83 | 108 | 26 | 81 | 29 |
|  | 398 | 102 | 136 | 46 | 82 | 32 |
|  | 458 | 116 | 158 | 64 | 85 | 35 |
| \$7,000-\$9,999 | 508 | 111 | 171 | 90 | 95 | 41 |
|  | 653 | 125 | 222 | 135 | 113 | 58 |
| Education of head of family |  |  |  |  |  |  |
|  | 409 | 105 | 134 | 44 | 90 | 36 |
|  | 449 | 107 | 153 | 68 | 86 | 35 |
| 13 years and over------m--m-m---------- | 544 | 107 | 191 | 104 | 96 | 46 |

and composition categories (table 4). Among unrelated individuals health expenses per individual increased as income rose, with the exception that the $\$ 3,000-\$ 4,999$ group had higher expenses than did the next higher income group (table H). This reversal in pattern was most pronounced among individuals under 45 years of age and among those 65 years and older (table 4).

As income rises, the proportion of total family income spent for health services declines (table $J$ ). Excluding the open-end income groups, by relating total expense to average income and using the midpoint of each income group as the average for the group, this proportion can be determined. About 10 percent of the available income in the
$\$ 3,000-\$ 4,999$ group was spent on health costs, and this figure declined to 8 percent and 6 percent in the two higher income groups. It is apparent that the under $\$ 3,000$ group spent more than 10 percent of income on health items and that the $\$ 10,000$ and over group spent the lowest proportion on health expense.

Since the health expense shown in these tables does not reflect expenses paid by government, charitable organizations, and private "thirdparty" payers, the differences in spending for health services are only partially attributed to differential use of health services. Families with lower income are often able to procure health services at lower cost or free of charge through
some outside agency. However, there is evidence in other reports from the National Health Survey that higher income is related to greater utilization of health services.

## Education of Head of Family

Families whose head had some college education and unrelated individuals with some college education had somewhat higher health ex-
penses than did families and individuals with less education (tables H, J, and 5). Among some of the types of expense, the differences in spending were quite small between the educational groups, notably for the unrelated individuals and for hospital expense for both families and individuals. Since family income and education of the head of the family are interrelated, the pattern of increased health expense among families and individuals with higher income and education is to be expected.

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NOTE: For official population estimates of the number of unrelated individuals and family units, see U.S. Bureau of the Census reports on the civilian population of the United States in Current Population Reports, Series P-20, P-25, and P-60.

Table 1. Health expenses per family or unrelated individual per year, by type of expense and family characteristics: United States, July-December 1962
[Jata are based on household intervjews 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 characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | $\begin{aligned} & \text { Doc- } \\ & \text { tor } \end{aligned}$ | Den- <br> tal | Medicine | $\begin{aligned} & \text { Special } \\ & \text { and } \\ & \text { other } \end{aligned}$ |
|  |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and familie | 57,801 | \$403 | \$94 | \$136 | \$59 | \$80 | \$35 |
| $\Lambda 11$ individuals | 10,799 | 181 | 40 | 57 | 24 | 38 | 22 |
|  | 1,920 | 154 | 29 | 59 | 29 | 25 | 12 |
| 45-64 years-------------- | 2,775 | 198 | 45 | 63 | 26 | 38 | 25 |
| 65 years and over-------- | 3,617 | 178 | 42 | 53 | 15 | 48 | 21 |
| Living with nonrelatives:..... Under 45 years----------- | 1,236 | 120 | 17 | 38 | 36 | 17 | 13 |
| 45-64 years- | 708 | 231 | 55 | 80 | 28 | 44 | 24 |
| 65 years and over------- | 543 | 268 | 69 | 61 | 22 | 49 | 67 |
| Al1 families | 47,002 | 453 | 106 | 153 | 67 | 89 | 37 |
| A11 2 person families | 16,152 | 381 | 92 | 121 | 46 | 85 | 38 |
| Husband-wife:................. Head under 45 years------ | 2,576 | 264 | 49 | 93 | 53 | 50 | 18 |
| Head 45-64 years--------- | 6,273 | 434 | 106 | 140 | 53 | 92 | 43 |
| Head 65 years and over--- | 4,068 | 432 | 113 | 130 | 34 | 108 | 47 |
| Other family group: ............ Head under 45 years------ | 1,076 | 259 | 56 | 92 | 45 | 49 | 18 |
| Head 45-64 years---.----- | -1,166 | 293 | 54 | 89 | 45 | 71 | 34 |
| Head 65 years and over--- | 993 | 362 | 102 | 97 | 37 | 87 | 39 |
| All 3 person families | 9,436 | 442 | 102 | 153 | 65 | 87 | 35 |
| Husband-wife, child under 17: Head under 45 years------ | 3,280 | 412 | 105 | 161 | 54 | 71 | 22 |
| Head 45-64 years--------- | 1,511 | 441 | 78 | 151 | 83 | 86 | 43 |
| Head 65 years and over--- | 97 | 499 | 109 | 169 | 52 | 98 | 72 |
| Husband-wife, no child under 17: Head under 45 years------ | 381 | 509 | 138 | 174 | 67 | 90 | 41 |
| Head 45-64 years--------- | 1,950 | 521 | 124 | 163 | 79 | 107 | 48 |
| Head 65 years and over--- | 675 | 574 | 130 | 193 | 57 | 145 | 49 |
| Other family group:............ Head under 45 years---..- | 733 | 247 | 49 | 71 | 57 | 50 | 19 |
| Head 45-64 years-------- | 508 | 390 | 87 | 120 | 63 | 81 | 40 |
| Head 65 years and over--- | 301 | 387 | 85 | 116 | 46 | 102 | 38 |
| All 4 person families | 9,164 | 495 | 110 | 170 | 86 | 91 | 38 |
| Husband-wife, child under 17: Head under 45 years------ | 5,450 | 471 | 103 | 174 | 78 | 88 | 28 |
| Head 45-64 years--------- | 2,002 | 554 | 124 | 176 | 105 | 97 | 51 |
| Head 65 years and over--- | 101 | 453 | 103 | 123 | 83 | 112 | 32 |
| Husband-wife, no child under 17: Head under 45 years------ | 96 | 603 | 149 | 243 | 75 | 100 | 36 |
| Head 45-64 years--------- | 575 | 649 | 178 | 177 | 102 | 117 | 74 |
| Head 65 years and over--- | 114 | 666 | 90 | 212 | 122 | 171 | 70 |
| Other family group: ........... Head under 45 years------ | 483 | 328 | 53 | 103 | 72 | 60 | 40 |
| Head 45-64 years--------- | 248 | 395 | 76 | 122 | 74 | 84 | 39 |
| Head 65 years and over--- | 94 | 509 | 137 | 144 | 66 | 96 | 67 |

Table 1. Health expenses per family or inrelated individual per year, by type of expense and family characteristics: United States, July-December 1962-Con.
[ Huth arv bised on housohold 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 characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doctor | $\begin{aligned} & \text { Den- } \\ & \text { tal } \end{aligned}$ | Medcine | $\begin{gathered} \text { Special } \\ \text { and } \\ \text { other } \end{gathered}$ |
|  |  | Expense per family or unrelated individual per year |  |  |  |  |  |
|  | 12,250 | \$529 | \$126 | \$186 | \$83 | \$96 | \$38 |
| Husband-wife, child under 17: Head under 45 years------ | 8,104 | 526 | 129 | 191 | 78 | 94 | 34 |
| Head 45-64 years--------- | 2,727 | 563 | 119 | 184 | 105 | 103 | 52 |
| Head 65 years and over--- | 169 | 650 | 160 | 221 | 96 | 131 | 42 |
| Husband-wife, no child under 17: Head under 45 years.----- | * | 164 | * | 64 | 34 | 36 | 30 |
| Head 45-64 years--------- | 128 | 663 | 168 | 209 | 100 | 135 | 51 |
| Head 65 years and over--- | * | 528 | 100 | 162 | 77 | 1.41 | 48 |
| Other family group: . . . . . . . . . . . Head under 45 years-.-...- | 610 | 303 | 86 | 96 | 48 | 49 | 24 |
| Head 45-64 years--------- | 352 | 516 | 124 | 170 | 65 | 117 | 40 |
| Head 65 years and over--- | 118 | 682 | 183 | 231 | 63 | 174 | 31. |
| All 5 person families | 5,869 | 499 | 111 | 174 | 86 | 92 | 36 |
| Husband-wife, child under 17: Head under 45 years------ | 3,963 | 495 | 114 | 179 | 79 | 92 | 31 |
| Head 45-64 years--------- | 1,237 | 525 | 102 | 165 | 117 | 93 | 49 |
| Head 65 years and over--- | 71 | 631 | 128 | 216 | 136 | 117 | 34 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 161 | * | 54 | 32 | 35 | 40 |
| Head 45-64 years--------- | 109 | 651 | 177 | 204 | 106 | 115 | 48 |
| Head 65 years and over--- | * | 253 | * | 84 | 36 | 76 | 57 |
| Other family group: . . . . . . . . . . Head under 45 years------ | 253 | 336 | 97 | 107 | 43 | 59 | 30 |
| Head 45-64 years--------... | 149 | 519 | 124 | 188 | 63 | 112 | 33 |
| Head 65 years and over--- | 63 | 531 | 101 | 182 | 74 | 138 | 36 |
|  | 6,381 | 556 | 139 | 197 | 80 | 99 | 41 |
| Husband-wife, child under 17: Head under 45 years.-...... | 4,141 | 558 | 144 | 203 | 78 | 95 | 37 |
| Head 45-64 years--------- | 1,490 | 594 | 133 | 201 | 94 | 111 | 55 |
| Head 65 years and over--- | 97 | 667 | 183 | 228 | 69 | 141 | 46 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 167 | * | 75 | 36 | 38 | 18 |
| Head 45-64 years----m---- | * | 713 | 126 | 231 | 67 | 230 | 59 |
| Head 65 years and over--- | * | 898 | 220 | 279 | 125 | 237 | 37 |
| Other family group:............ Head under 45 years.-.--- | 357 | 279 | 77 | 89 | 52 | 42 | 20 |
| Head 45-64 years--------- | 203 | 515 | 124 | 158 | 66 | 121 | 46 |
| Head 65 years and over--- | 55 | 906 | 291 | 308 | 53 | 229 | 25 |

Table 2. Health expenses per family or unrelated individual per year, by type of expense, geographic region, and family characteristics: United States, July-December 1962
[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 family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hos pital | Doctor | Den - tal | Medicine | $\begin{aligned} & \text { Special } \\ & \text { and } \\ & \text { other } \end{aligned}$ |
| Northeast |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families | 14,673 | \$421 | \$91 | \$137 | \$74 | \$84 | \$35 |
| All individuals | 2,677 | 179 | 41 | 53 | 27 | 36 | 22 |
| Living alone:................. Under 45 years--.---.---- | 486 | 141 | 22 | 45 | 40 | 24 | 10 |
| 45-64 years-..-.-.--...-- | 695 | 192 | 40 | 70 | 28 | 38 | 16 |
| 65 years and over------- | 894 | 161 | 35 | 46 | 17 | 44 | 19 |
| Living with nonrelatives:..... Under 45 years------.---- | 242 | 115 | 10 | 28 | 43 | 14 | 20 |
| 45-64 years- | 208 | 244 | 96 | 62 | 30 | 40 | 16 |
| 65 years and over----.--- | 151 | 322 | 97 | 69 | 13 | 42 | 101 |
| All families | 11,995 | 474 | 102 | 155 | 85 | 94 | 38 |
| All 2 person familie | 3,996 | 406 | 94 | 127 | 63 | 85 | 37 |
| Husband-wife:................. Head under 45 years------ | 657 | 276 | 45 | 92 | 74 | 47 | 18 |
| Head 45-64 years---...-. - | 1,503 | 447 | 100 | 142 | 71 | 93 | 41 |
| Head 65 years and over--- | 932 | 485 | 127 | 143 | 51 | 113 | 51 |
| Other family group:........... Head under 45 years---..- | 257 | 365 | 108 | 133 | 49 | 59 | 16 |
| Head 45-64 years----...-- | 337 | 352 | 82 | 101 | 68 | 64 | 37 |
| Head 65 years and over--- | 311 | 310 | 69 | 96 | 42 | 74 | 29 |
| All 3 person families | 2,514 | 445 | 88 | 150 | 82 | 90 | 35 |
| Husband-wife, child under 17: Head under 45 years----- | 796 | 405 | 97 | 156 | 58 | 76 | 18 |
| Head 45-64 years--------- | 399 | 519 | 98 | 180 | 108 | 89 | 44 |
| Head 65 years and over--- | * | 272 | 61 | 92 | 41 | 40 | 38 |
| Husband-wife, no child under 17: Head under 45 years.-.--- | 98 | 579 | 175 | 218 | 62 | 87 | 37 |
| Head 45-64 years-------- | 567 | 506 | 100 | 148 | 103 | 103 | 52 |
| head 65 years and over--- | 195 | 510 | 78 | 163 | 73 | 144 | 52 |
| Other family group:........... Head under 45 years.----- | 173 | 232 | 13 | 50 | 98 | 48 | 23 |
| Head 45-64 years------.- | 175 | 365 | 43 | 129 | 82 | 82 | 29 |
| Head 65 years and over--- | 98 | 323 | 45 | 88 | 54 | 94 | 42 |
| All 4 person families--------------------------------------- | 2,545 | 516 | 104 | 172 | 100 | 100 | 40 |
| Husband-wife, child under 17: Head under 45 years----- | 1,477 | 477 | 94 | 166 | 88 | 97 | 32 |
| Head 45-64 years--------- | 537 | 583 | 125 | 181 | 138 | 91 | 48 |
| Head 65 years and over--- | * | 588 | 60 | 191 | 130 | 163 | 44 |
| Husband-wife, no child under 17: Head under 45 years---.- | * | 845 | 203 | 392 | 98 | 134 | 18 |
| Head 45-64 years--------- | 220 | 692 | 182 | 203 | 104 | 132 | 71 |
| Head 65 years and over--- | 53 | 467 | 59 | 133 | 80 | 134 | 61 |
| Other family group:........... Head under 45 years...--- | 91 | 341 | 30 | 133 | 54 | 97 | 27 |
| Head 45-64 years----.-.-- | 76 | 330 | 21 | 85 | 123 | 64 | 37 |
| Head 65 years and over--- | * | 469 | 56 | 152 | 44 | 143 | 74 |
|  | 2,941 | 563 | 125 | 186 | 106 | 107 | 39 |
| Husband-wife, child under 17: Head under 45 years--... | 1,955 | 556 | 134 | 194 | 92 | 102 | 34 |
| Head 45-64 years-----...- | 673 | 548 | 88 | 151 | 142 | 111 | 56 |
| Head 65 years and over--- | * | 993 | 299 | 263 | 229 | 127 | 75 |
| Husband-wife, no child under 17: Head under 45 years----- | * | 178 | * | 82 | 47 | 35 | 14 |
| Head 45-64 years-----..-- | * | 656 | 43 | 213 | 260 | 98 | 42 |
| Head 65 years and over--- | * | 835 | 220 | 242 | 137 | 197 | 39 |
| Other family group:............ Head under 45 years------ | 111 | 468 | 163 | 161 | 44 | 75 | 25 |
| Head 45-64 years--------- | 83 | 554 | 90 | 169 | 122 | 141 | 32 |
| Head 65 years and over-- |  | 1,106 | 227 | 463 | 51 | 336 | 29 |

Table 2. Health expenses per family or unrelated individual per year, by type of expense, geographic region, and family characteristics: United States, July-Decemher 1962-Con.
[Datu urb hased on household interviows 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]


Table 2. Health expenses per family or unrelated individual per year, by type of expense, geographic region, ana family characteristics: United States, July-December 1962-Con.
[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 family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | $\begin{aligned} & \text { Doc- } \\ & \text { tor } \end{aligned}$ | Den- tal | Medi- cine | Special and other |
| South |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families---------------------- | 17,042 | \$378 | \$86 | \$129 | \$45 | \$86 | \$32 |
| All individual | 2,884 | 185 | 39 | 61 | 18. | 47 | 20 |
| Living alone:................. Under 45 years------------ | 370 | 253 | 56 | 119 | 22 | 46 | 10 |
| 45-64 years-------------- | 801 | 187 | 40 | 61 | 22 | 43 | 21 |
| 65 years and over-------- | 970 | 186 | 43 | 54 | 11 | 57 | 21 |
| Living with nonrelatives:...... Under 45 years--...----.-- | 388 | 101 | 17 | 32 | 21 | 21 | 10 |
| 45-64 years-------------- | 224 | 194 | 29 | 73 | 22 | 51 | 19 |
| 65 years and over-------- | 130 | 231 | 32 | 39 | 32 | 65 | 63 |
| All families | 14,159 | 419 | 96 | 143 | 51 | 94 | 35 |
| All 2 person familie | 4,962 | 371 | 86 | 120 | 36 | 92 | 37 |
| Husband-wife:................ Head under 45 years------ | 877 | 230 | 39 | 88 | 34 | 54 | 15 |
| Head 45-64 years----.----- | 1,931 | 443 | 112 | 142 | 43 | 102 | 44 |
| Head 65 years and over--- | 1,179 | 439 | 113 | 134 | 28 | 117 | 47 |
| Other family group:........... Head under 45 years-....-- | 370 | 193 | 35 | 69 | 34 | 41 | 14 |
| Head 45-64 years--------- | 324 | 268 | 44 | 80 | 26 | 81 | 37 |
| Head 65 years and over--- | 282 | 357 | 48 | 110 | 37 | 110 | 52 |
| All 3 person families | 2,851 | 391 | 88 | 133 | 50 | 87 | 33 |
| Husband-wife, child under 17: Head under 45 years----- | 1,066 | 349 | 85 | 132 | 44 | 69 | 19 |
| Head 45-64 years------.-- | 427 | 395 | 77 | 132 | 63 | 85 | 38 |
| Head 65 years and over--- | * | 516 | 117 | 160 | 47 | 94 | 98 |
| Husband-wife, no child under 17: Head under 45 years------ | 140 | 511 | 118 | 198 | 58 | 88 | 49 |
| Head 45-64 years--------- | 542 | 452 | 90 | 142 | 60 | 113 | 47 |
| Head 65 years and over--- | 190 | 507 | 123 | 172 | 38 | 134 | 40 |
| Other family group:........... Head under 45 years-....-- | 212 | 236 | 45 | 73 | 47 | 57 | 14 |
| Head 45-64 years....----- | 131 | 411 | 131 | 102 | 42 | 86 | 50 |
| Head 65 years and over--- | 99 | 369 | 83 | 95 | 39 | 113 | 39 |
| All 4 person families----------------------------------------- | 2,701 | 457 | 97 | 159 | 69 | 98 | 34 |
| Husband-wife, child under 17: Head under 45 years------ | 1,616 | 459 | 102 | 174 | 66 | 95 | 22 |
| Head 45-64 years--------- | 561 | 496 | 110 | 153 | 79 | 110 | 44 |
| Head 65 years and over--- | * | 388 | 24 | 130 | 88 | 114 | 32 |
| Husband-wife, no child under 17: Head under 45 years--..-- | * | 553 | 135 | 234 | 30 | 108 | 46 |
| Head 45-64 years-------- | 146 | 494 | 81 | 139 | 89 | 108 | 77 |
| Head 65 years and over--- | * | 672 | 96 | 188 | 75 | 212 | 101 |
| Other family group:............ Head under 45 years------ | 173 | 290 | 27 | 75 | 70 | 54 | 64 |
| Head 45-64 years-........- | 84 | 413 | 108 | 108 | 56 | 107 | 34 |
| Head 65 years and over--- | * | 208 | 25 | 58 | 13 | 67 | 45 |
| All $5+$ person families | 3,644 | 478 | 115 | 171 | 59 | 100 | 33 |
| Husband-wife, child under 17: Head under 45 years-....-- | 2,180 | 459 | 109 | 170 | 55 | 96 | 29 |
| Head 45-64 years----..--- | 885 | 553 | 131 | 194 | 76 | 109 | 43 |
| Head 65 years and over--- | 72 | 574 | 122 | 191 | 56 | 161 | 44 |
| Husband-wife, no child under 17: Head under 45 years----- | * | 108 | * | 39 | * | 63 | * |
| Head 45-64 years--------- | * | 772 | 258 | 232 | 50 | 175 | 57 |
| Head 65 years and over--- | * | * | * | * | * | * | , |
| Other family group :............ Head under 45 years------ | 245 | 261 | 63 | 79 | 46 | 47 | $2 t$ |
| Head 45-64 years--------- | 150 | 537 | 142 | 191 | 47 | 134 | 25 |
| Head 65 years and over--- | 59 | 434 | 87 | 132 | 59 | 128 | $2 \varepsilon$ |

Table 2. Health expenses per family or unrelated individual per year, by type of expense, geographic region, and family characteristics: United States, July-December 1962-Con.
[Duta ars hased on househoid 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 it]

| Geographic region and family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doc- <br> tor | Den- tal | Medi- <br> cine | $\begin{gathered} \text { Special } \\ \text { and } \\ \text { other } \end{gathered}$ |
| West |  | Expense per family or unrelated individual per year |  |  |  |  |  |
|  | 9,504 | \$456 | \$96 | \$163 | \$75 | \$80 | \$42 |
| All individuals- | 2,090 | 208 | 39 | 70 | 30 | 35 | 34 |
| Living alone: ................. | 463 | 181 | 28 | 72 | 32 | 25 | 24 |
| 45-64 years | 499 | 220 | 39 | 62 | 30 | 41 | 48 |
| 65 years and over-------- | 605 | 195 | 45 | 64 | 14 | 45 | 27 |
| Living with nonrelatives:..... Under 45 years----------- | 339 | 163 | 26 | 52 | 58 | 14 | 13 |
| 45-64 years-------------- | 113 | 359 | 67 | 159 | 32 | 49 | 52 |
| 65 years and over-------- | 72 | 356 | 77 | 80 | 30 | 46 | 123 |
| All families | 7,413 | 526 | 112 | 190 | 88 | 92 | 44 |
| All 2 person families--------------------------------------- | 2,603 | 438 | 103 | 144 | 59 | 86 | 46 |
| Husband-wife:.................. . Head under 45 years------ | 428 | 344 | 67 | 120 | 76 | 59 | 22 |
| Head 45-64 years--------- | 1,050 | 518 | 130 | 169 | 63 | 101 | 55 |
| Head 65 years and over--- | 617 | 466 | 116 | 145 | 44 | 101 | 60 |
| Other family group:............ Head under 45 years------ | 246 | 292 | 50 | 109 | 60 | 54 | 19 |
| Head 45-64 years-----...- | 160 | 306 | 59 | 109 | 49 | 54 | 35 |
| Head 65 years and over--- | 100 | 353 | 68 | 113 | 48 | 73 | 51 |
|  | 1,430 | 519 | 105 | 196 | 83 | 91 | 44 |
| Husband-wife, child under 17: Head under 45 years------ | 524 | 596 | 1.34 | 255 | 91 | 85 | 31 |
| Head 45-64 years-------.- | 251 | 468 | 67 | 160 | 105 | 84 | 52 |
| Head 65 years and over--- | * | 819 | 96 | 359 | 81 | 197 | 86 |
| Husband-wife, no child under 17: Head under 45 years---n-- | 52 | 460 | 64 | 135 | 108 | 103 | 50 |
| Head 45-64 years--------- | 243 | 569 | 101 | 214 | 66 | 127 | 61 |
| Head 65 years and over--- | 76 | 554 | 148 | 171 | 32 | 119 | 84 |
| Other family group: ............ Head under 45 years------ | 176 | 335 | 76 | 107 | 72 | 56 | 24 |
| Head 45-64 years---- | 76 | 377 | 79 | 97 | 68 | 75 | 58 |
| Head 65 years and over--- | 22 | 309 | 143 | 95 | 13 | 45 | 13 |
| All 4 person families | 1,412 | 579 | 113 | 216 | 113 | 97 | 40 |
| Husband-wife, child under 17: Head under 45 years--...- | 834 | 562 | 103 | 217 | 108 | 96 | 38 |
| Head 45-64 years--------- | 316 | 652 | 117 | 254 | 128 | 107 | 46 |
| Head 65 years and over--- | * | 255 | * | 92 | 43 | 99 | 21 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 728 | 341 | 111 | 71 | 87 | 118 |
| Head 45-64 years--------- | 55 | 921 | 416 | 224 | 86 | 138 | 57 |
| Head 65 years and over--- | * | 1,215 | 89 | 443 | 384 | 231 | 68 |
| Other family group:............ Head under 45 years--..--- | 119 | 314 | 45 | 91 | 114 | 41 | 23 |
| Head 45-64 years--------- | * | 556 | 80 | 266 | 53 | 99 | 58 |
| Head 65 years and over--- | * | 246 | 50 | 103 | * | 43 | 47 |
| A11 $5+$ person families--------------------------------------- | 1,969 | 614 | 129 | 229 | 114 | 98 | 44 |
| Husband-wife, child under 17: Head under 45 years------ | 1,373 | 632 | 131 | 238 | 118 | 101 | 44 |
| Head 45-64 years--------- | 400 | 660 | 137 | 243 | 123 | 106 | 51 |
| Head 65 years and over--- | * | 564 | 142 | 192 | 90 | 119 | 21 |
| Husband-wife, no child under 17: Head under 45 years------ | * | * | * | * | * | * | * |
| Head 45-64 years--------- | * | 490 | 147 | 181 | 49 | 93 | 20 |
| Head 65 years and over--- | * | * | * | * | * | * | * |
| Other family group: ........... Head under 45 years------ | 125 | 351 | 78 | 115 | 81 | 48 | 29 |
| Head 45-64 years-.------- | * | 464 | 145 | 160 | 51 | 65 | 43 |
| Head 65 years and over--- | * | 451 | 167 | 141 | * | 118 | * |

Table 3. Health expenses per family or unrelated individual per year, by type of expense, color, and family characteristics: United States, July-December 1962
[Data are based on household interviews of the civilian, noninstitutional population. The survey design, general qualifications, and information on the reliability of tie estimates are given in Appendix I. Definitions of terms are given in Appendix II]

| Color and family characteristics | Number of families and individuals in thousands | Type of. expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doc- tor | Den- tal | Medicine | Spectin and other other |
| White |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families | 51,704 | \$417 | \$97 | \$140 | \$62 | \$82 | \$: 6 |
| All individuals | 9,317 | 190 | 41 | 60 | 25 | 40 | 24 |
| Living alone:.................. Under 45 years---.------- | 1,644 | 162 | 29 | 62 | 31 | 27 | 13 |
| 45-64 years | 2,356 | 215 | 51 | 68 | 29 | 40 | 27 |
| 65 years and over-------- | 3,323 | 184 | 43 | 55 | 15 | 50 | 21 |
| Living with nonrelatives:..... Under 45 years- | 999 | 126 | 15 | 40 | 40 | 17 | 14 |
| 45-64 years | 529 | 216 | 36 | 76 | 32 | 45 | 27 |
| 65 years and over-------- | 466 | 300 | 81 | 66 | 24 | 52 | 17 |
| All familie | 42,387 | 468 | 109 | 158 | 70 | 92 | 39 |
| All 2 person families | 14,776 | 393 | 95 | 124 | 48 | 87 | 39 |
| Husband-wife:.................. Head under 45 years------ | 2,298 | 265 | 48 | 94 | 55 | 50 | 18 |
| Head 45-64 years --.- | 5,888 | 441 | 107 | 143 | 54 | 93 | 44 |
| Head 65 years and over--- | 3,831 | 443 | 117 | 132 | 35 | 110 | 49 |
| Other family group:............ Head under 45 years------ | 888 | 282 | 63 | 100 | 50 | 50 | 19 |
| Head 45-64 years--..--.--- | 992 | 316 | 61 | 94 | 49 | 75 | 37 |
| Head 65 years and over--- | 880 | 385 | 115 | 99 | 39 | 92 | 40 |
| All 3 person families | 8,590 | 456 | 105 | 157 | 68 | 89 | 37 |
| Husband-wife, child under 17: Head under 45 years-.--..- | 3,059 | 416 | 105 | 162 | 55 | 71 | 23 |
| Head 45-64 years..--... | 1,401 | 456 | 80 | 157 | 85 | 89 | 45 |
| Head 65 years and over--- | 69 | 593 | 142 | 203 | 55 | 111 | 82 |
| Husband-wife, no child under 17: Head under 45 years------ | 314 | 543 | 146 | 185 | 73 | 97 | 42 |
| Head 45-64 years--------- | 1,848 | 530 | 127 | 163 | 82 | 108 | 5) |
| Head 65 years and over--- | 650 | 576 | 130 | 191 | 58 | 146 | 51 |
| Other family group:............ Head under 45 years------ | 561 | 269 | 55 | 76 | 67 | 50 | 21 |
| Head 45-64 years--------- | 422 | 411 | 89 | 122 | 72 | 87 | 4. |
| Head 65 years and over--- | 267 | 409 | 88 | 124 | 51 | 106 | $4)$ |
| All 4 person families | 8,443 | 505 | 110 | 174 | 89 | 93 | $3)$ |
| Husband-wife, child under 17: Head under 45 years------ | 5,116 | 472 | 101 | 176 | 80 | 87 | 23 |
| Head 45-64 years-- | 1,878 | 563 | 122 | 180 | 109 | 100 | 5 5 |
| Head 65 years and over--- | 96 | 452 | 108 | 120 | 82 | 111 | 3 |
| Husband-wife, no child under 17: Head under 45 years----.- | 79 | 728 | 188 | 292 | 91 | 114 | 4. |
| Head 45-64 years--------- | 545 | 654 | 184 | 177 | 103 | 115 | 7. |
| Head 65 years and over--- | 99 | 687 | 81 | 216 | 135 | 178 | 71 |
| Other family group:............ Head under 45 years-.---- | 378 | 372 | 60 | 113 | 88 | 63 | 411 |
| Head 45-64 years--------- | 184 | 429 | 71 | 131 | 93 | 94 | 411 |
| Head 65 years and over--- | 69 | 626 | 191 | 179 | 87 | 104 | 6:. |
|  | 10,577 | 554 | 130 | 194 | 90 | 100 | 41 |
| Husband-wife, child under 17: Head under 45 years----- | 7,330 | 542 | 132 | 197 | 82 | 95 | $3 t$ |
| Head 45-64 years --------- | 2,324 | 580 | 120 | 185 | 114 | 106 | $5!$ |
| Head 65 years and over--- | 125 | 724 | 171 | 253 | 124 | 132 | 42 |
| Husband-wife, no child under 17: Head under 45 years---.-- | * | 247 | * | 96 | 51 | 55 | 4: |
| Head 45-64 years--------- | 116 | 599 | 100 | 202 | 111 | 137 | $4!$ |
| Head 65 years and over--- | * | 568 | 110 | 176 | 84 | 145 | 5 |
| Other family group:............ Head under 45 years----.- | 339 | 395 | 108 | 124 | 70 | 64 | $2!$ |
| Head 45-64 years--------- | 226. | 667 | 168 | 209 | 80 | 153 | 51 |
| Head 65 years and over- | 86 | 852 | 223 | 292 | 80 | 220 | 37 |

Table 3. Health expenses per family or unrelated individual per year, by type of expense, color, and family characteristics: United States, July-December 1962-Con.
[Duta are bused 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 family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doctor | $\begin{aligned} & \text { Den- } \\ & \text { tal } \end{aligned}$ | Medicine | $\begin{aligned} & \text { Special } \\ & \text { and } \\ & \text { other } \end{aligned}$ |
| Nonwhite |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families | 6,097 | \$261 | \$66 | \$91 | \$27 | \$57 | \$20 |
| A.ll individuals | 1,482 | 120 | 31 | 39 | 11 | 27 | 12 |
| Living alone:................. Under 45 years------------ | 276 | 96 | 28 | 35 | 11 | 16 | 6 |
| 45-64 years- | 419 | 105 | 10 | 35 | 12 | 31 | 17 |
| 65 years and over------- | 294 | 101 | 24 | 28 | 6 | 27 | 16 |
| Living with nonrelatives:..... Under 45 years.----------- | 237 | 91 | 28 | 27 | 16 | 1.5 | 5 |
| 45-64 years---m----------- | 178 | 277 | 112 | 93 | 14 | 43 | 15 |
| 65 years and over-------- | 77 | 76 | * | 29 | 14 | 30 | 3 |
| All families | 4,616 | 308 | 78 | 108 | 32 | 68 | 22 |
| All 2 person familie | 1,376 | 238 | 50 | 79 | 27 | 61 | 21 |
| Husband-wife:.................. Head under 45 years-----. | 278 | 252 | 62 | 87 | 29 | 55 | 19 |
| Head 45-64 years--------- | 386 | 326 | 97 | 89 | 34 | 78 | 28 |
| Head 65 years and over--- | 237 | 234 | 35 | 89 | 24 | 68 | 18 |
| Other family group:............ Head under 45 years.----- | 188 | 136 | 15 | 49 | 14 | 46 | 12 |
| Head 45-64 years-.------- | 174 | 157 | 12 | 59 | 23 | 46 | 17 |
| Head 65 years and over--- | 113 | 178 | 3 | 80 | 24 | 47 | 24 |
|  | 846 | 287 | 68 | 109 | 29 | 62 | 19 |
| Husband-wife, child under 17: Head under 45 years-..--- | 222 | 363 | 100 | 153 | 31 | 70 | 9 |
| Head 45-64 years-m-n-m-- | 110 | 217 | 50 | 56 | 58 | 42 | 11. |
| Head 65 years and over--- | * | 207 | * | 58 | 42 | 59 | 48 |
| Husband-wife, no child under 17: Head under 45 years-n---- | 67 | 298 | 85 | 102 | 28 | 47 | 36 |
| Head 45-64 years--------- | 102 | 359 | 76 | 163 | 14 | 78 | 28 |
| Head 65 years and over--- | * | 499 | 131 | 207 | 36 | 120 | 5 |
| Other family group:............ Head under 45 years---m-m | 172 | 173 | 27 | 57 | 24 | 50 | 15 |
| Head 45-64 years-n---0--- | 86 | 285 | 73 | 108 | 15 | 54 | 35 |
| Head 65 years and over--- | * | 231 | 60 | 61 | 11 | 73 | 26 |
|  | 721 | 361 | 103 | 118 | 40 | 76 | 24 |
| Husband-wife, child under 17: Head under 45 years------ | 335 | 436 | 129 | 142 | 51 | 92 | 22 |
| Head 45-64 years-m-------- | 124 | 394 | 162 | 113 | 46 | 48 | 25 |
| Head 65 years and over--- | * | 457 | 34 | 165 | 90 | 92 | 76 |
| Husband-wife, no child under 17: Head under 45 yearsm----- | * | 145 | * | 65 | 18 | 46 | 11 |
|  | * | 509 | 28 | 177 | 84 | 167 | 53 |
| Head 65 years and over--- | * | 490 | 167 | 187 | 24 | 102 | 10 |
| Other family group:............ Head under 45 years --..-- | 106 | 166 | 28 | 68 | 12 | 49 | 9 |
| Head 45-64 years---------- | 63 | 293 | 91 | 94 | 19 | 54 | 35 |
| Head 65 years and over--- | \% | 194 | * | 37 | 16 | 71 | 70 |
|  | 1,673 | 353 | 95 | 129 | 33 | 72 | 24 |
| Husband-wife, child under 17: Head under 45 years--m--- | 774 | 364 | 99 | 132 | 33 | 80 | 20 |
| Head 45-64 years--------- | 404 | 461 | 111 | 178 | 48 | 88 | 36 |
| Head 65 years and over--- | * | 428 | 122 | 135 | 11 | 126 | 34 |
| Husbandwwife, no child under 17: Head under 45 years-m---- | * | * | * | * | * | * | * |
| Head 45-64 years---n-m-n- | * | 1,232 | 746 | 271 | 29 | 118 | 68 |
| liead 65 years and over--- | * | 137 | * | * | * | 99 | * |
| Othe-- family group:............ Head under 45 years------ | 270 | 175 | 54 | 59 | 16 | 28 | 18 |
| Head 45-64 years--------- | 127 | 241 | 43 | 100 | 36 | 52 | 10 |
| Head 65 years and over--- | * | 129 | 35 | 44 | 10 | 29 | 11 |

Table 4. Health expenses per family or unrelated individual per year, by type of expense, family income, and family characteristics: United States, July-December 1962
[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 family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doctor | Dental | Medi- <br> cine | Spectal and other |
| Under \$3,000 |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families- | 16,428 | \$258 | \$65 | \$83 | \$22 | \$63 | \$25 |
| All individuals | 6,797 | 162 | 40 | 47 | 16 | 39 | 20 |
| Living alone:.................. Under 45 years----------- | 879 | 116 | 35 | 38 | 14 | 19 | 10 |
| 45-64 years-------------- | 1,467 | 170 | 40 | 50 | 18 | 40 | 22 |
| 65 years and over-------- | -2,957 | 163 | 40 | 48 | 10 | 47 | 18 |
| Living with nonrelatives:..... Under 45 years----------- | 692 | 120 | 16 | 34 | 38 | 17 | 15 |
| 45-64 years------ | 382 | 224 | 71 | 70 | 16 | 46 | 21 |
| 65 years and over-------- | 420 | 218 | 58 | 49 | 17 | 45 | 49 |
| A11 families | 9,631 | 327 | 83 | 108 | 26 | 81 | 29 |
| All 2 person families | 5,095 | 321 | 81 | 100 | 22 | 86 | 32 |
| Husband-wife:.................. Head under 45 years------ | 417 | 202 | 52 | 73 | 28 | 33 | 16 |
| Head 45-64 years | 1,021 | 362 | 82 | 125 | 24 | 96 | 35 |
| Head 65 years and over--- | 2,240 | 373 | 99 | 106 | 21 | 106 | 41 |
| Other family group: ............ Head under 45 years------ | 475 | 190 | 50 | 67 | 25 | 35 | 13 |
| Head 45-64 years--------- | 437 | 231 | 50 | 70 | 26 | 57 | 28 |
| Head 65 years and over--- | 505 | 281 | 67 | 92 | 15 | 85 | 22 |
| All 3 person families | 1,693 | 331 | 85 | 113 | 29 | 80 | 24 |
| Husband-wife, child under 17: Head under 45 years------ | 440 | 315 | 85 | 132 | 27 | 57 | 14 |
| Head 45-64 years--..- | 176 | 351 | 53 | 125 | 38 | 108 | 27 |
| Head 65 years and over--- | * | 238 | 28 | 82 | 25 | 58 | 45 |
| Husband-wife, no child under 17: Head under 45 years----- | 85 | 242 | 42 | 87 | 42 | 49 | 22 |
| Head 45-64 years--------- | 229 | 422 | 147 | 128 | 28 | 93 | 26 |
| Head 65 years and over--- | 220 | 470 | 107 | 154 | 23 | 151 | 35 |
| Other family group: ............ Head under 45 years------ | 266 | 221 | 63 | 67 | 25 | 45 | 21 |
| Head 45-64 years--------- | 140 | 239 | 61 | 67 | 37 | 51 | 23 |
| Head 65 years and over--- | 103 | 324 | 86 | 86 | 27 | 90 | 35 |
| All 4 person families | 1,038 | 318 | 76 | 112 | 34 | 67 | 29 |
| Husband-wife, child under 17: Head under 45 years----- | 434 | 317 | 79 | 122 | 34 | 58 | 24 |
| Head 45-64 years--------- | 200 | 356 | 95 | 125 | 34 | 74 | 28 |
| Head 65 years and over--- | * | 225 | 11 | 85 | 38 | 63 | 28 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 374 | 68 | 155 | 70 | 64 | 17 |
| Head 45-64 years--------- | 51 | 518 | 124 | 148 | 56 | 97 | 93 |
| Head 65 years and over--- | * | 795 | 61 | 269 | 45 | 281 | 139 |
| Other family group:............ Head under 45 years------ | 167 | 229 | 71 | 72 | 21 | 52 | 13 |
| Head 45-64 years--------- | 77 | 227 | 42 | 61 | 22 | 77 | 25 |
| Head 65 years and over--- | * | 293 | 37 | 90 | 39 | 71 | 56 |
| All $5+$ person families | 1,805 | 345 | 90 | 127 | 29 | 75 | 24 |
| Husband-wife, child under 17: Head under 45 years------ | 892 | 371 | 103 | 140 | 28 | 75 | 25 |
| Head 45-64 years--------- | 395 | 369 | 73 | 149 | 33 | 84 | 30 |
| Head 65 years and over--- | 54 | 307 | 23 | 104 | 29 | 117 | 34 |
| Husband-wife, no child under 17: Head under 45 years---...- | * | * | * | * | * | * | * |
| Head 45-64 years--------- | * | 110 | 35 | 25 | * | 50 | * |
| Head 65 years and over--- | * | 137 | * | * | * | 99 | * |
| Other family group:............ Head under 45 years------ | 297 | 234 | 70 | 75 | 23 | 46 | 20 |
| Head 45-64 years--------- | 111 | 271 | 66 | 79 | 38 | 80 | * |
| - Head 65 years and over--- |  | 719 | 324 | 211 | 45 | 109 | 30 |

Table 4. Health expenses per family or unrelated individual per year, by type of expense, family income, and family characteristics: United States, July-December 1962-Con.
[nach aro hasod 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 family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | $\begin{aligned} & \text { Doc- } \\ & \text { tor } \end{aligned}$ | $\begin{aligned} & \text { Den- } \\ & \text { tal } \end{aligned}$ | Medi- cine | $\begin{gathered} \text { Special } \\ \text { and } \\ \text { other } \end{gathered}$ |
| \$3,000-\$4,999 |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families----------------------- | 11,852 | \$368 | \$92 | \$126 | \$44 | \$75 | \$31 |
| All individuals | 1,917 | (207) | 39 | 73 | 31 | 38 | 26 |
| Living alone: .................. Under 45 years---------- | 533 | 188 | 29 | 75 | 32 | 35 | 17 |
| 45-64 years | 615 | 209 | 46 | 73 | 31 | 38 | 21 |
| 65 years and over-------- | 311 | 210 | 34 | 62 | 22 | 53 | 39 |
| Living with nonrelatives:..... Under 45 years-----------1- | 244 | 170 | 34 | 64 | 43 | 19 | 10 |
| 45-64 year | 1.75 | 211 | 48 | 80 | 25 | 38 | 20 |
| 65 years and over-------- | * | 525 | 90 | 120 | 38 | 72 | 205 |
| All families | 9,935 | 398 | 102 | 136 | 46 | 82 | 32 |
| All 2 person families-------------1-1 | 3,526 | 358 | 87 | 114 | 41 | 84 | 32 |
| Husband-wife: ................. . Head under 45 years | 561 | 229 | 42 | 83 | 39 | 53 | 12 |
| Head 45-64 years--------- | 1,337 | 408 | 115 | 128 | 38 | 93 | 34 |
| Head 65 years and over--- | 888 | 422 | 103 | 134 | 38 | 105 | 42 |
| Other family group:............ Head under 45 years------ | 267 | 261 | 46 | 90 | 57 | 52 | 16 |
| Head 45-64 years- | 271 | 310 | 51 | 90 | 48 | 79 | 42 |
| Head 65 years and over--- | 202 | 284 | 50 | 73 | 60 | 70 | 31 |
| All 3 person families | 2,110 | 370 | 93 | 130 | 44 | 74 | 29 |
| Husband-wife, child under 17: Head under 45 years------ | 930 | 369 | 106 | 142 | 41 | 63 | 17 |
| Head 45-64 years--------- | 259 | 282 | 44 | 84 | 55 | 63 | 36 |
| Head 65 years and over--- | * | 483 | 130 | 171 | 27 | 112 | 43 |
| Husband-wife, no child under 17: Head under 45 years------ | 81 | 467 | 130 | 180 | 48 | 68 | 41 |
| Head 45-64 years-------- | 312 | 386 | 78 | 122 | 47 | 98 | 41 |
| Head 65 years and over--- | 127 | 619 | 134 | 182 | 67 | 157 | 79 |
| Other family group: ............ Head under 45 years-..--- | 204 | 191 | 41 | 62 | 30 | 46 | 12 |
| Head 45-64 years--------- | 108 | 384 | 99 | 147 | 37 | 65 | 36 |
| Head 65 years and over--- | 71 | 521 | 151 | 176 | 43 | 101 | 50 |
| A11 4 person families | 1,845 | 438 | 117 | 150 | 50 | 86 | 35 |
| Husband-wife, child under 17: Head under 45 years------ | 1,182 | 420 | 107 | 162 | 47 | 83 | 21 |
| Head 45-64 years------ | 314 | 516 | 170 | 140 | 51 | 100 | 55 |
| Head 65 years and over--- | * | 546 | 269 | 102 | 50 | 114 | 11 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 667 | 261 | 263 | 51 | 58 | 34 |
| Head 45-64 years----.....- | 59 | 486 | 102 | 144 | 51 | 101 | 88 |
| Head 65 years and over--- | * | 515 | 118 | 105 | 66 | 130 | 96 |
| Other family group; . . . . . . . . . . Head under 45 years------ | 137 | 371 | 52 | 109 | 73 | 58 | 79 |
| Head 45-64 years--------- | 55 | 358 | 101 | 112 | 47 | 67 | 31 |
| Head 65 years and over--- | * | 199 | * | 39 | 15 | 102 | 43 |
| All $5+$ person families | 2,455 | 447 | 122 | 161 | 51 | 82 | 31 |
| Husband-wife, child under 17: Head under 45 years------ | 1,709 | 451 | 130 | 166 | 45 | 82 | 28 |
| Head 45-64 years--------- | 486 | 453 | 108 | 157 | 63 | 82 | 43 |
| Head 65 years and over--- | * | 952 | 200 | 287 | 273 | 156 | 36 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 89 | * | * | 89 | * | * |
| Head 45-64 years--------- | * | 215 | 44 | 44 | 39 | 57 | 31 |
| Head 65 years and over--- | * | * | * | * | * | * | * |
| Other family group:........... Head under 45 years------ | 135 | 303 | 82 | 110 | 48 | 39 | 24 |
| Head 45-64 years--------- | 70 | 353 | 79 | 105 | 37 | 105 | 27 |
| Head 65 years and over--- |  | 637 | 60 | 273 | 63 | 200 | 41 |

Table 4. Health expenses per family or unrelated individual per year, by type of expense, family income, and family characteristics: United States, July-December 1962—Con.
Data are based on household interviews of the civilian, noninstitutional population. The survey design, general qualifications, and mformation on the reliability of the estimates are given in Appondix I. Definitions of trems are given in Appendix II]

| Family income and family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doc- tor | Den- tal | Medicine | $\begin{aligned} & \text { Special } \\ & \text { and } \\ & \text { other } \end{aligned}$ |
| \$5,000-\$6,999 |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families---------------------- | 11,630 |  |  |  |  |  |  |
| All individuals | 850 | 166 | 37 | 57 | 30 | 27 | 15 |
| Living alone: .................. Under 45 years----------- | 252 | 169 | 25 | 61 | 48 | 26 | 9 |
| 45-64 years | 285 | 215 | 72 | 73 | 26 | 27 | 17 |
| 65 years and over-------- | 76 | 184 | 39 | 36 | 26 | 57 | 26 |
| Living with nonrelatives:...... Under 45 years------------ | 162 | 65 | 6 | 16 | 23 | 11 | 9 |
| 45-64 years-- | 58 | 187 | 9 | 100 | 14 | 36 | 28 |
| 65 years and over-------- | * | 121 | * | 64 | 19 | 15 | 22 |
| All families | 10,779 | 458 | 116 | 158 | 64 | 85 | 35 |
| All 2 person families | 2,838 | 404 | 102 | 132 | 50 | 81 | 39 |
| Husband-wife: ................ Head under 45 years------ | 650 | 279 | 55 | 105 | 49 | 51 | 19 |
| Head 45-64 years--------- | 1,409 | 457 | 122 | 150 | 53 | 90 | 42 |
| Head 65 years and over--- | 318 | 532 | 145 | 152 | 43 | 111 | 81 |
| Other family group:............ Head under 45 years------ | 151 | 306 | 93 | 97 | 42 | 59 | 15 |
| Head 45-64 years--------- | 196 | 302 | 33 | 102 | 45 | 88 | 34 |
| Head 65 years and over--- | 115 | 381 | 111 | 93 | 69 | 78 | 30 |
|  | 2,123 | 441 | 112 | 153 | 64 | 81 | 31 |
| Husband-wife, child under 17: Head under 45 years------ | 878 | 413 | 119 | 158 | 47 | 68 | 21 |
| Head 45-64 years--------- | 409 | 482 | 116 | 163 | 75 | 80 | 48 |
| Head 65 years and over--- | * | 528 | 112 | 248 | 66 | 81 | 21 |
| Husband-wife, no child under 17: Head under 45 years------ | 50 | 552 | 242 | 161 | 48 | 86 | 15 |
| Head 45-64 years- | 363 | 493 | 123 | 152 | 70 | 108 | 40 |
| Head 65 years and over--- | 137 | 416 | 57 | 161 | 70 | 104 | 24 |
| Other family group:............ Head under 45 years------ | 123 | 367 | 65 | 91 | 130 | 58 | 23 |
| Head 45-64 years------ | 112 | 426 | 77 | 151 | 74 | 87 | 37 |
| Head 65 years and over--- | * | 284 | 50 | 53 | 39 | 103 | 39 |
| All 4 person familie. ------ --------------------- | 2,535 | 446 | 106 | 156 | 71 | 82 | 31 |
| Husband-wife, child under L . Head under 45 years------ | 1,781 | 461 | 117 | 170 | 67 | 82 | 25 |
| Head 45-64 years --------- | 508 | 422 | 85 | 123 | 85 | 83 | 46 |
| Head 65 years and over--- | * | 393 | 17 | 145 | 92 | 82 | 57 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 312 | 28 | 118 | * | 68 | 94 |
| Head 45-64 years----- | 98 | 507 | 144 | 151 | 67 | 90 | 55 |
| Head 65 years and over--- | * | 385 | 25 | 122 | 102 | 102 | 34 |
| Other family group:........... . Head under 45 years-.---- | 81 | 306 | 18 | 104 | 80 | 85 | 19 |
| Head 45-64 years--------- | * | 280 | 60 | 100 | 8 | 77 | 35 |
| Head 65 years and over--- | * | 268 | 30 | 28 | * | 103 | 102 |
| All $5+$ person families | 3,283 | 526 | 138 | 187 | 73 | 92 | 36 |
| Husband-wife, child under 17: Head under 45 years------ | 2,494 | 520 | 138 | 190 | 69 | 90 | 33 |
| Head 45-64 years--------- | 601 | 547 | 131 | 177 | 90 | 99 | 50 |
| Head 65 years and over--- | * | 885 | 347 | 243 | 84 | 156 | 55 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 207 | * | 102 | 36 | 46 | 23 |
| Head 45-64 years--------- | * | 551 | 127 | 256 | 56 | 73 | 39 |
| Head 65 years and over--- | * | 112 | * | 20 | 36 | 41 | * |
| Other family group: ........... Head under 45 years------ | 76 | 494 | 192 | 130 | 75 | 67 | 30 |
| Head 45-64 years--------- | * | 575 | 134 | 184 | 77 | 130 | 50 |
| Head 65 years and over--- | * | 642 | 147 | 272 | 58 | 126 | 39 |

Table 4. Health expenses per family or unrelated individual per year, by type of expense, family income, and family characteristics: United States, July-December 1962-Con.
[natit are haved 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 family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital. | Doc- tor | $\begin{aligned} & \text { Den- } \\ & \text { tal } \end{aligned}$ | Medicine | Special and other |
| \$7,000-\$9,999 |  | Expense per family or unrelated individual per year <br>  |  |  |  |  |  |
| Total individuals and families- | 8,614 |  |  |  |  |  |  |
| All individuals | 473 | 229 | 22 | 92 | 50 | 43 | 22 |
| Living alone:.................. Under 45 years---------- | 149 | 197 | 20 | 88 | 55 | 23 | 11 |
| 45-64 years- | 174 | 251 | 41 | 95 | 43 | 47 | 25 |
| 65 years and over-------- | 50 | 312 | 12 | 133 | 41 | 87 | 39 |
| Living with nonrelatives:...... Under 45 years----------- | 55 | 103 | * | 34 | 38 | 16 | 15 |
| 45-64 years | * | 256 | * | 92 | 66 | 62 | 36 |
| 65 years and over-------- | * | 807 | * | 358 | 268 | 179 |  |
| All families | 8,141 | 508 | 111 | 171 | 90 | 95 | 41 |
| All 2 person families | 2,144 | 428 | 104 | 136 | 66 | 85 | 37 |
| Husband-wife:................. ${ }^{\text {. }}$ Head under 45 years------ | 547 | 289 | 46 | 97 | 69 | 57 | 20 |
| Head 45-64 years | 1,156 | 436 | 97 | 143 | 61 | 90 | 45 |
| Head 65 years and over--- | 186 | 646 | 191 | 218 | 60 | 132 | 45 |
| Other family group:........... Head under 45 years------ | 90 | 400 | 81 | 139 | 85 | 77 | 18 |
| Head 45-64 years-- | 115 | 419 | 72 | 107 | 114 | 84 | 42 |
| Head 65 years and over--- | * | 1,189 | 767 | 192 | 54 | 121 | 55 |
| All 3 person families | 1,704 | 489 | 106 | 169 | 79 | 94 | 41 |
| Husband-wife, child under 17: Head under 45 years------ | 638 | 459 | 98 | 184 | 71 | 77 | 29 |
| Head 45-64 years- | 336 | 440 | 71 | 139 | 87 | 100 | 43 |
| Head 65 years and over--- | * | 516 | 34 | 138 | 66 | 134 | 144 |
| Husband-wife, no child under 17: Head under 45 years---.-- | 62 | 693 | 229 | 243 | 58 | 117 | 46 |
| Head 45-64 years--------- | 433 | 532 | 125 | 166 | 84 | 105 | 52 |
| Head 65 years and over--- | 76 | 811 | 248 | 303 | 49 | 141 | 70 |
| Dther family group:........... Head under 45 years------ | 58 | 304 | 26 | 79 | 111 | 64 | 24 |
| Head 45-64 years--------- | 58 | 366 | 73 | 70 | 107 | 74 | 42 |
| Head 65 years and over--- | * | 433 | 30 | 116 | 103 | 148 | 36 |
| All 4 person families | 1,902 | 528 | 111 | 173 | 108 | 97 | 39 |
| Husband-wife, child under 17: Head under 45 years----- | 1,223 | 516 | 102 | 176 | 109 | 96 | 33 |
| Head 45-64 years--.------ | 414 | 561 | 126 | 180 | 112 | 95 | 48 |
| Head 65 years and over--- | * | 1,442 | * | 439 | 496 | 414 | 93 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 776 | 303 | 248 | 61 | 156 | 8 |
| Head 45-64 years--------- | 134 | 636 | 188 | 170 | 87 | 117 | 74 |
| Head 65 years and over--- | * | 666 | 160 | 217 | 83 | 156 | 50 |
| Other family group:............ Head under 45 years------ | 54 | 221 | 2 | 43 | 105 | 38 | 33 |
| Head 45-64 years--------- | * | 343 | 37 | 125 | 70 | 66 | 45 |
| Head 65 years and over--- | * | * | * | * | * | * | * |
| All $5+$ person families--------------m---------------------- | 2,392 | 580 | 121 | 204 | 106 | 105 | 44 |
| Husband-wife, child under 17: Head under 45 years------ | 1,712 | 553 | 115 | 204 | 99 | 97 | 38 |
| Head 45-64 years--------- | 507 | 616 | 115 | 188 | 134 | 116 | 63 |
| Head 65 years and over--- | * | 945 | 265 | 348 | 138 | 146 | 48 |
| Husband-wife, no child under 17: Head under 45 years------ | * | * | * | * | * | * | * |
| Head 45-64 years-------- | * | 1,206 | 479 | 324 | 154 | 201 | 48 |
| Head 65 years and ovcr--- | * | 345 | * | 139 | 62 | * | 100 |
| Other family group:............ Head under 45 years---..-- | * | 436 | 86 | 162 | 86 | 63 | 39 |
| Head 45-64 years---------- | * | 605 | 168 | 244 | 37 | 119 | 37 |
| Head 65 years and over--- | * | 838 | 126 | 263 | 100 | 316 | 33 |

Table 4. Health expenses per family or unrelated individual per year, by type of expense, family income, and family characteristics: United States, July-December 1962-Con.
[Data are based on household interviews of the civilian, noninstitutional population. The survey design, general qualifications, and information on the relishility of the estimates are given in Appendix I. Definitions of terms are given in Appendix II]

| Family income and family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doc- tor | $\begin{aligned} & \text { Den- } \\ & \text { tal } \end{aligned}$ | Medi- <br> cine | $\begin{aligned} & \text { Spectal } \\ & \text { and } \\ & \text { other } \end{aligned}$ |
|  | 6,471 | Expense per family or unrefated individual per year <br>  |  |  |  |  |  |
| All individual | 305 | 381 | -56 | 108 | 95 | 48 | 74 |
| Living alune:...... .......... Under 45 years----------- | 63 | 280 | 5 | 145 | 78 | 46 | 6 |
| 45-64 years-------------- | 112 | 351 | 24 | 83 | 81 | 43 | 120 |
| 65 years and over-------- | 55 | 403 | 44 | 139 | 121 | 45 | 54 |
| Living with nonrelatives:...... Under 45 years----------- | * | 123 | 20 | 42 | 38 | 12 | 11 |
| 45-64 years--------------- | * | 533 | 98 | 131 | 168 | 77 | 59 |
| 65 years and over-------- | * | 1,045 | 507 | 122 | 121 | 118 | 177 |
| A11 families | 6,166 | 653 | 125 | 222 | 135 | 113 | 58 |
| All 2 person families---------------------------------------- | 1,589 | 497 | 105 | 162 | 89 | 86 | 55 |
| Husband-wife:................. Head under 45 years------ | 320 | 331 | 50 | 113 | 88 | 53 | 27 |
| Head 45-64 years-.----...- | 930 | 513 | 117 | 162 | 89 | 91 | 54 |
| Head 65 years and over--- | 199 | 700 | 161 | 243 | 95 | 122 | 79 |
| Other family group:........... Head under 45 years------ | * | 402 | 25 | 232 | 67 | 45 | 33 |
| Head 45-64 years----....-- | 58 | 383 | 91 | 102 | 77 | 78 | 35 |
| Head 65 years and over--- | * | 715 | 103 | 185 | 99 | 101 | 227 |
|  | 1,348 | 623 | 118 | 215 | 1.22 | 112 | 56 |
| Husband-wife, child under 17: Head under 45 years------ | 330 | 544 | 90 | 210 | 106 | 102 | 36 |
| Head 45-64 years-------- | 248 | 598 | 76 | 234 | 153 | 83 | 52 |
| Head 65 years and over--- | * | 1,571 | 525 | 529 | 54 | 231 | 232 |
| Husband-wife, no child under 17: Head under 45 years------ | 80 | 648 | 120 | 208 | 119 | 127 | 74 |
| Head 45-64 years--------- | 508 | 656 | 142 | 210 | 122 | 118 | 64 |
| Head 65 years and over--- | 52 | 991 | 241 | 333 | 142 | 208 | 67 |
| Other family group:............ Head under 45 years---..-- | * | 278 | * | 83 | 119 | 53 | 22 |
| Head 45-64 years--------- | 52 | 639 | 169 | 149 | 88 | 142 | 91 |
| Head 65 years and over--- | * | 491 | 72 | 187 | 96 | 109 | 27 |
|  | 1,495 | 730 | 125 | 259 | 164 | 124 | 58 |
| Husband-wife, child under 17: Head under 45 years------ | 672 | 614 | 78 | 240 | 137 | 114 | 45 |
| Head 45-64 years--.--...--- | 481 | 793 | 138 | 278 | 188 | 124 | 65 |
| Head 65 years and over--- | * | 775 | * | 265 | 240 | 197 | 73 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 827 | 159 | 361 | 125 | 138 | 44 |
| Head 45-64 years-------- | 198 | 838 | 220 | 220 | 169 | 146 | $8:$ |
| Head 65 years and over--- | * | 1,246 | 104 | 488 | 354 | 3.45 | 55 |
| Other family group: ............ Head under 45 years------ | * | a, 1 | 179 | 365 | 155 | 96 | 86 |
| Head 45-64 years--.--...--- | * | 613 | 135 | 158 | 183 | 87 | 5 |
| Head 65 years and over--- | * | 1,116 | 353 | 307 | 184 | 165 | $10^{*}$ |
| A11 5+ person families-------------------------------------- | 1,734 | 759 | 149 | 254 | 165 | 130 | 6 |
| Husband-wife, child under 17: Head under 45 years------ | 1,001 | 740 | 148 | 257 | 155 | 128 | 5 ! |
| Head 45-64 years--------- | 557 | 776 | 148 | 240 | 190 | 126 | 73 |
| Head 65 years and over--- | * | 873 | 206 | 375 | 84 | 138 | 71 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 202 | * | 78 | * | 113 | * |
| Head 45-64 years---------- | * | 723 | 66 | 249 | 143 | 181 | 84 |
| Head 65 years and over--- | * | 936 | 220 | 276 | 135 | 228 | 77 |
| Other family group: ............ | * | 424 | * | 86 | 205 | 71 | 54 |
| Head 45-64 years--------- | * | 1,100 | 272 | 370 | 166 | 170 | 122 |
| Head 65 years and over--- | * | 490 | 71 | 164 | 70 | 168 | 17 |

Table 5. Health expenses per family or unrelated individual per year, by type of expense, education of head of family, and family characteristics: United States, July-December 1962
[Data arv hased 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

| Education of head of family and family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doc- tor | Dental | Medi- <br> cine | $\begin{aligned} & \text { Special } \\ & \text { and } \\ & \text { other } \end{aligned}$ |
| Under 9 years |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families- | 20,188 | \$355 | \$91 | \$115 | \$38 | \$79 | \$32 |
| All individuals | 4,480 | 162 | 41 | 50 | 13 | 39 | 19 |
| Living alone:.................. Under 45 years----------- | 271 | 151 | 62 | 51 | 17 | 18 | 3 |
| 45-64 years-.------------ | 1,174 | 169 | 42 | 50 | 15 | 34 | 28 |
| 65 years and over--------- | 2,170 | 168 | 43 | 52 | 10 | 47 | 16 |
| Living with nonrelatives:..... Under 45 years----------- | 213 | 84 | 7 | 23 | 33 | 17 | 4 |
| 45-64 years-- | 345 | 142 | 35 | 48 | 14 | 28 | 17 |
| 65 years and over-------- | 308 | 166 | 33 | 49 | 15 | 39 | 30 |
| All families | 15,708 | 409 | 105 | 134 | 44 | 90 | 36 |
| All 2 person familie | 6,653 | 366 | 95 | 11.3 | 32 | 89 | 37 |
| Husband-wlife:................ Head under 45 years------ | 410 | 302 | 86 | 95 | 38 | 59 | 24 |
| Head 45-64 years | 2,554 | 396 | 105 | 127 | 37 | 86 | 41 |
| Head 65 years and over--- | 2,445 | 394 | 103 | 117 | 28 | 105 | 41 |
| Other family group:............ Head under 45 years------ | 147 | 218 | 52 | 66 | 25 | 58 | 17 |
| Head 45-64 years-------- | 486 | 240 | 48 | 76 | 24 | 62 | 30 |
| Head 65 years and over--- | 611 | 306 | 73 | 94 | 30 | 81 | 28 |
| All 3 person families | 2,936 | 400 | 94 | 132 | 46 | 92 | 36 |
| Huaband-wifc, child under 17: Head under 45 years------ | 516 | 340 | 91 | 129 | 40 | 62 | 18 |
| Head 45-64 years--------- | 467 | 367 | 66 | 121 | 53 | 82 | 45 |
| Head 65 years and over--- | 55 | 357 | 68 | 139 | 43 | 72 | 35 |
| Husband-wife, no child under 17: Head under 45 years------ | 78 | 301 | 87 | 95 | 35 | 48 | 36 |
| Head 45-64 years----.---- | 781 | 466 | 119 | 146 | 56 | 103 | 42 |
| Head 65 ycars and over--- | 458 | 530 | 115 | 176 | 50 | 144 | 45 |
| Other family group: ............ Head under 45 years------ | 158 | 171 | 54 | 42 | 11 | 48 | 16 |
| Head 45-64 years--------- | 221 | 338 | 77 | 119 | 34 | 73 | 35 |
| Head 65 years and over--- | 203 | 350 | 82 | 102 | 40 | 93 | 33 |
|  | 2,220 | 453 | 121 | 137 | 65 | 92 | 38 |
| Husband-wife, child under 17: Head under 45 years------ | 805 | 347 | 70 | 122 | 51 | 80 | 24 |
| Head 45-64 years--------- | 659 | 486 | 143 | 146 | 66 | 85 | 46 |
| Head 65 years and over--- | 66 | 583 | 153 | 138 | 117 | 135 | 40 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 518 | 203 | 181 | 49 | 57 | 28 |
| Head 45-64 years--------- | 239 | 734 | 285 | 178 | 80 | 127 | 64 |
| Head 65 years and over--- | 91 | 752 | 100 | 238 | 149 | 190 | 75 |
| Other family group:............ Head under 45 years------ | 110 | 300 | 66 | 97 | 35 | 76 | 26 |
| Head 45-64 years--------- | 147 | 273 | 34 | 74 | 66 | 69 | 30 |
| Head 65 years and over--- | 76 | 494 | 150 | 144 | 67 | 96 | 37 |
| All $5+$ person families | 3,898 | 467 | 121 | 169 | 55 | 91 | 31 |
| Husband-wife, child under 17: Head under 45 years------ | 1,939 | 449 | 127 | 169 | 44 | 82 | 27 |
| Head 45-64 years--------- | 1,222 | 503 | 121 | 181 | 65 | 98 | 38 |
| Head 65 years and over--- | 120 | 637 | 145 | 203 | 111 | 136 | 42 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 100 | * | 39 | 12 | * | 40 |
| Head 45-64 years--------- | 77 | 582 | 96 | 200 | 123 | 125 | 38 |
| Head 65 years and over--- | * | 892 | 275 | 241 | 147 | 207 | 22 |
| Other family group: . . . . . . . . . . Head under 45 years------ | 226 | 219 | 55 | 79 | 24 | 43 | 18 |
| Head 45-64 years--------- | 218 | 386 | 88 | 129 | 53 | 92 | 24 |
| Head 65 years and over--- | 79 | 800 | 239 | 272 | 70 | 190 | 29 |
|  |  |  |  |  |  |  | 29 |

Table 5. Health expenses per family or unrelated individual per year, by type of expense, education of head of family, and family characteristics: Uiited States, July-December 1962-Con.
[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]

| Education of head of family and family characteristics | Number .of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doc- tor | Den- tal | Medicine | $\begin{gathered} \text { Special } \\ \text { and } \\ \text { other } \end{gathered}$ |
| 9-12 years |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families---------------------- | 25,409 | \$409 | \$97 | \$138 | \$62 | \$79 | \$33 |
| All individual | 3,976 | 187 | 40 | 60 | 25 | 38 | 24 |
| Living alone:................ ${ }^{\text {a }}$ Under 45 years----------- | 924 | 167 | 33 | 62 | 30 | 29 | 13 |
| 45-64 years- | 1,052 | 200 | 39 | 66 | 32 | 40 | 23 |
| 65 years and over-------- | 1,006 | 184 | 39 | 52 | 15 | 48 | 30 |
| Living with nonrelatives:..... Under 45 years----------- | 585 | 117 | 20 | 40 | 25 | 16 | 16 |
| 45-64 years---- | 239 | 339 | 111 | 109 | 28 | 61 | 30 |
| 65 years and over-------- | 169 | 263 | 59 | 56 | 24 | 58 | 66 |
| All families | 21,433 | 449 | 107 | 153 | 68 | 86 | 35 |
| All 2 person families | 6,387 | 381 | 90 | 124 | 50 | 83 | 34 |
| Husband-wife: ................. Head under 45 years------ | 1,429 | 242 | 45 | 85 | 46 | 51 | 15 |
| Head 45-64 years | 2,549 | 447 | 106 | 148 | 58 | 95 | 40 |
| Head 65 years and over--- | 1,008 | 470 | 118 | 153 | 36 | 118 | 45 |
| Other family group: ........... . Head under 45 years------ | 678 | 244 | 57 | 87 | 41 | 44 | 15 |
| Head 45-64 years-------.-- | 463 | 312 | 53 | 94 | 60 | 69 | 36 |
| Head 65 years and over--- | 260 | 529 | 196 | 114 | 47 | 103 | 69 |
|  | 4,430 | 440 | 109 | 152 | 64 | 82 | 33 |
| Husband-wife, child under 17: Head under 45 years------ | 1,813 | 414 | 112 | 163 | 48 | 70 | 21 |
| Head 45-64 years---------- | 732 | 469 | 100 | 152 | 84 | 88 | 45 |
| Head 65 years and over--- | * | 923 | 306 | 289 | 58 | 132 | 138 |
| Husband-wife, no child under 17: Head under 45 years------ | 229 | 521 | 145 | 178 | 67 | 83 | 48 |
| Head 45-64 years--.------ | 781 | 524 | 137 | 159 | 79 | 103 | 46 |
| Head 65 years and over--- | 126 | 676 | 158 | 212 | 71 | 181 | 54 |
| Other family group: ........... Head under 45 years------ | 471 | 240 | 41 | 71 | 64 | 48 | 16 |
| Head 45-64 years-- | 196 | 345 | 69 | 126 | 54 | 68 | 28 |
| Head 65 years and over--- | 65 | 467 | 79 | 131 | 73 | 127 | 57 |
| A11 4 person families | 4,706 | 460 | 103 | 161 | 81 | 83 | 32 |
| Husband-wife, child under 17: Head under 45 years------ | 3,163 | 459 | 109 | 168 | 75 | 81 | 26 |
| Head 45-64 years--------- | 871 | 509 | 107 | 154 | 105 | 93 | 50 |
| Head 65 years and over--- | * | 179 | 8 | 73 | 27 | 57 | 14 |
| Husband-wife, no child under 17: Head under 45 years------ | * | 631 | 139 | 253 | 79 | 124 | 36 |
| Head 45-64 years--.-..---- | 230 | 497 | 70 | 166 | 94 | 99 | 68 |
| Head 65 years and over--- | * | 433 | 69 | 116 | 43 | 132 | 73 |
| Other family group: ............ Head under 45 years------ | 282 | 268 | 45 | 90 | 64 | 51 | 18 |
| Hlead 45-64 years-------- | 73 | 586 | 118 | 198 | 97 | 121 | 52 |
| Head 65 years and over--- | * | 174 | * | 24 | 71 | 10 | 69 |
| Al1 $5+$ person families | 5,911 | 524 | 128 | 178 | 82 | 96 | 40 |
| Husband-wife, child under 17: Head under 45 years---m- | 4,341 | 517 | 128 | 183 | 77 | 94 | 35 |
| Head 45-64 years----- | 1,023 | 572 | 119 | 171 | 111 | 109 | 62 |
| Head 65 years and over--- | * | 755 | 217 | 310 | 46 | 131 | 51 |
| Husband-wife, no child under 17: Head under 45 years----..- | * | 374 | * | 151 | 118 | 70 | 35 |
| Head 45-64 years--------- | * | 771 | 390 | 187 | 46 | 96 | 52 |
| Head 65 years and over--. | * | 554 | * | 133 | 91 | 190 | 140 |
| Other family group:........... Head under 45 years------ | 340 | 323 | 97 | 99 | 56 | 51 | 20 |
| Head 45-64 years--.---..--- | 119 | 754 | 186 | 239 | 85 | 175 | 69 |
| Head 65 years and over--- |  | 786 | 167 | 245 | 71 | 246 | 57 |

Table 5. Health expenses per family or unrelated individual per year, by type of expense, education of bead of family, and family characteristics: United States, July-December 1962-Con.
[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]

| Education of head of family and family characteristics | Number of families and individuals in thousands | Type of expense |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Hospital | Doc- tor | Den- tal | Medi- <br> cine | $\begin{aligned} & \text { Special } \\ & \text { and } \\ & \text { other } \end{aligned}$ |
| 13+ years |  | Expense per family or unrelated individual per year |  |  |  |  |  |
| Total, individuals and families- | 11,116 | \$476 | \$931 | \$166 | \$92 | \$84 | \$41 |
| All individuals- | 2,199 | 202 | 37 | 66 | 41 | 35 | 23 |
| Living alone:................. Under 45 years----------- | 701 | 143 | 15 | 59 | 30 | 25 | 14 |
| 45-64 years---------------- | 535 | 257 | 65 | 84 | 41 | 43 | 24 |
| 65 years and over-------- | 364 | 193 | 29 | 54 | 35 | 51 | 24 |
| Living with nomrelatives:..... Under 45 years----------- | 428 | 137 | 16 | 40 | 52 | 17 | 12 |
| 45-64 years-------------- | 114 | 279 | 7 | 120 | 64 | 55 | 33 |
| 65 years and over-------- | 57 | 712 | 291 | 135 | 58 | 67 | 161 |
| All families | 8,916 | 544 | 107 | 191 | 104 | 96 | 46 |
| All 2 person familie | 2,710 | 424 | 89 | 135 | 73 | 81 | 46 |
| Husband-wife:................. Head under 45 years------ | 713 | 291 | 37 | 111 | 76 | 45 | 22 |
| Head 45-64 years--------- | 1,004 | 497 | 113 | 153 | 80 | 96 | 55 |
| Head 65 years and over--- | 473 | 548 | 147 | 156 | 63 | 103 | 79 |
| Other family group:............ Head under 45 years------ | 249 | 325 | 54 | 122 | 65 | 59 | 25 |
| Head 45-64 years--------- | 191 | 387 | 77 | 108 | 61 | 103 | 38 |
| Head 65 years and over--- | 80 | 309 | 50 | 92 | 57 | 88 | 22 |
|  | 1,878 | 510 | 97 | 183 | 97 | 93 | 40 |
| Husband-wife, child under 17: Head under 45 years---.-- | 921 | 451 | 100 | 178 | 70 | 77 | 26 |
| Head 45-64 years--------- | 275 | 485 | 41 | 192 | 129 | 88 | 35 |
| Head 65 years and over--- | * | 508 | 33 | 128 | 79 | 139 | 129 |
| Husband-wife, no child under 1\%: Head under 45 years------ | 66 | 655 | 141 | 226 | 105 | 158 | 25 |
| Head 45-64 years--------- | 336 | 609 | 98 | 193 | 134 | 115 | 69 |
| Head 65 years and over--- | 67 | 751 | 199 | 280 | 88 | 116 | 68 |
| Other family group: . . . . . . . . . . Head under 45 years------ | 99 | 421 | 80 | 126 | 110 | 62 | 43 |
| Head 45-64 years--------- | 81 | 659 | 160 | 119 | 156 | 141 | 83 |
| Head 65 years and over--- | * | 552 | 79 | 230 | 58 | 143 | 42 |
|  | 2,109 | 618 | 115 | 223 | 121 | 110 | 49 |
| Husband-wife, child under 17: Head under 45 years------ | 1,440 | 572 | 109 | 218 | 103 | 107 | 35 |
| Head 45-64 years--------- | 437 | 747 | 132 | 264 | 167 | 122 | 62 |
| Head 65 years and over--- | * | * | * | * | * | * | * |
| Husband-wife, no child under 17: Head under 45 years------ | * | 595 | 116 | 239 | 102 | 91 | 47 |
| Head 45-64 years--------- | 88 | 834 | 173 | 194 | 197 | 145 | 125 |
| Head 65 years and over--- | * | 146 | * | 72 | * | 60 | * |
| Other family group:............ Head under 45 years------ | 88 | 552 | 64 | 151 | 139 | 69 | 129 |
| Head 45-64 years--------- | * | 475 | 186 | 150 | 52 | 38 | 49 |
| Head 65 years and over--- | * | 2,261 | 634 | 694 | * | 272 | 615 |
| A11 $5+$ person families | 2,219 | 661 | 132 | 237 | 136 | 107 | 49 |
| Husband-wife, child under 17: Head under 45 years------ | 1,741 | 640 | 136 | 237 | 119 | 107 | 41 |
| Head 45-64 years--------- | 388 | 768 | 114 | 238 | 227 | 109 | 80 |
| Head 65 years and over--- | * | 852 | 304 | 264 | 139 | 102 | 43 |
| Husband-wife, no child under 17: Head under 45 years----- | * | 202 | * | 78 | * | 113 | * |
| Head 45-64 years--------- | * | 1,070 | 58 | 374 | 141 | 349 | 148 |
| Head 65 years and over--- | * | 344 | * | 210 | * | 57 | 64 |
| Other family group:............ Head under 45 years---...- | * | 562 | 136 | 169 | 97 | 66 | 94 |
| Head 45-64 years--------- | * | 482 | 119 | 239 | 65 | 27 | 32 |
| Head 65 years and over--- | * | 699 | 71 | 357 | 69 | 165 | 37 |

## APPENDIX 1 TECHNICAL NOTES ON METHODS

## Background of This Report

This report is one of a series of statistical reports prepared by the National Health Survey. It is based on information collected in a continuing nationwide sample of households in the Health Interview Survey, a major part of the program.

The Health Interview Survey utilizes a questionnaire which, in addition to personal and demographic characteristics, obtains information on illnesses, injuries, chronic conditions and impairments, 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 primarily on the consolidated sample for 26 weeks of interviewing ending December 1962.

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, U.S. nationals living in foreign countries, or crews of vessels.

## 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 population of the United States. The first stage of this design consists of drawing a sample of 357 from about 1,900 geographically defined primary sampling units (PSU's) into which the United States has been divided. A PSU is a county, a group of contiguous counties, or a standard metropolitan statistical area,

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. A segment consists of a cluster of neighboring households or addresses. Two general types of segments are used: (1) area segments which are defined geographically, and (2) B segments which are defined from a list of addresses from the Decennial

Census and the Survey of Construction. Each week a random sample of about 90 segments is drawn. In the approximately 800 household in these segments, household members are interviewed concerning factors related to health.

Since the household members interviewed each week are a representative sample of the population, samples for successive weeks can be combined into larger samples. Thus the design permits both continuous measurement of characteristics of high incidence or prevalence in the population and, through the larger consolidated samples, more detailed analysis of less common characteristics and smaller categories. 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.

Sample size and geographic detail. - The national sample plan for the 6 -month period ending December 1962 included about 71,000 persons from 22,000 households in about 9,400 segments.

The overall samplc was designed in such a fashion that tabulations can be provided for each of the major geographic regions and for urban and rural sectors of the United States.

Collection of data.-Field operations for the household survey are performed by the U.S. Burcau of the Census under specifications established by the National Center for Health Statistics. In accordance with these specifications the Bureau of the Census selects the sample, conducts the field interviewing as an agent of the Center, and performs a manual editing and coding of the questionnaires. The Health Interview Survey, using Center electronic computers, carries out further editing and tabulates the edited data.

Estimating methods.-Each statistic produced by the survey-for example, the amount of dental expense per family per year-is the result of two stages of ratio estimation. In the first of these the control factor is the ratio of the 1960 decennial population count to the 1960 estimated population in the National Health Survey's first-stage sample of PSU's. These factors are applied for some 25 color-residence classes.

Later, ratios of sample-produced estimates of the population to official Bureau of the Census figures for current population in about 60 age-sex-color classes
are computed and serve as second-stage factors for ratio estimating.

The effect of the ratio-estimating process is to make the sample more closely representative of the population by age, sex, color, and residence, thus reducing sampling variance.

As noted, each week's sample represents the population living during that week and characteristics of this population. Consolidation of samples over a time period, say, a calendar quarter, produces estimates of average characteristics of the U.S. population for that calendar quarter. Similarly, population data for a year are averages of the four quarterly figures.

## 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 any eligible household respondent after repeated trials. The nonresponse rate for the mail-in supplement on medical expenditures was 6.5 percent. This questionnaire was used to shorten the interviewing time. In a study conducted by the National Opinion Research Center, University of Chicago, a mail-in supplement was found to be a reasonable substitute for direct interview. (See Vital and Health Statistics, Series 2, No. 2.)

After the houschold interview, the questionnaire with self-addressed envelope was handed to the respondent who was asked to complete and return it within 5 days. In the event of nonresponse, two mail followups were made. Further followup was made by personal contact, usually by telephone. Telephone contact was also used to clarify inconsistent and missing entries, etc., on submitted forms.

The interview process.-The statistics presented in this report are based on replies secured in interviews of persons in the sampled households. Each person 19 years of age and over available at the time of interview was interviewed individually. Proxy respondents within the household were employed for children and for adults not available at the time of the interview, provided the respondent was closely related to the person about whom the information was being obtained.

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 and sex, which are adjusted to independent estimates, these figures are based on the sample of households in the National Health Survey.

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. In some instances these will permit users to recombine published data into classes more suitable to their specific needs. With the exception of the overall totals by age and sex 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 estimates 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 and instructions and interviewing persomel and procedures. As in any survey the results are also subject to measurement error.

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 $2 \%$ times as large.

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. Included in this appendix are charts from which the relative standard errors can be determined for estimates shown in this 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 rel-
ative standard error rather than the precise exror 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 for the period of reference is usually either 0 or 1 , on occasion may take on the value 2 , and very rarely, 3 .

Medium range. -This class consists of other statistics for which the measure for a single individual for the period of reference will rarely lie outside the range 0 to 5 .

Wide range. -This class consists of statistics for which the measure for a single individual for the period of reference frequently will range from 0 to a number in excess of 5 , e.g., the number of days of bed disability experienced during the year.

In addition to classifying variables according to whether they are narrow-, medium-, or widerange, 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.
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 35, 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 families or unrelated individuals with an annual family income of $\$ 10,000$ or more, are obtained from appropriate curves on page 36. The number of persons in the total U.S. population or in an age-sex 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 percentages in a percent distribution: Relative standard errors for percentages in a percent distribution of a total are obtained from appropriate curves on page 37. 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: (Not required for statistics presented in this report.)
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 the 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 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, obtain the relative standard error of the numerator and of the denominator 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 and often will overstate the error. Table I shows approximate relative standard errors for selected levels of health expense per family or unrelated individual.

Table I. Relative standard errors ${ }^{1}$ for selected levels of health expense per family or unrelated individual per year

| Size of population estimate in thousands | Health expense per family unit per year in dollars |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10 | 25 | 50 | 75 | 100 |
|  | Percent |  |  |  |  |
| 100- | 22118654333 | $\begin{array}{r} 21 \\ 11 \\ 8 \\ 6 \\ 5 \\ 4 \\ 3 \\ 3 \\ 3 \end{array}$ | 21 | 20 | 20 |
| 500 |  |  | 11 | 11 | 11 |
| 1,000 |  |  | 8 | 8 | 8 |
| 2,500- |  |  | 6 | 6 | 6 |
| 5,000 |  |  | 5 | 5 | 5 |
| 10,000. |  |  | 4 | 4 | 4 |
| 25,000- |  |  | 3 | 3 | 3 |
| 50,000- |  |  | 3 | 3 | 3 |
| 100,000 |  |  | 3 | 3 | 3 |

[^4]
## 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)
$\mathrm{A}=$ aggregate, $\mathrm{P}=$ percentage; (2) the number of calendar quarters of data collection; (3) the type of the statistic as described on page 34; and (4) the range of the statistics as described on page 34.

| Statistic | Use: |  |  |
| :---: | :---: | :---: | :---: |
|  | Rule | Code | page |
| Number of unrelated individuals or families....-......- | 1 | A2AN | 36 |
|  | 1 | A2AW | 36 |
| Health expense per family or unrelated individual--.-- | 4(b) | $\left\{\begin{array}{l}\text { Numer.: A2AW } \\ \text { Denom.: A2AN }\end{array}\right.$ | 36 36 |
| Percent distribution of health expense per family or unrelated individual | 2 | P2AW | 37 |



Example of se of chart: An aggregate of $2,000,000$ (on scale at bottom of chart) for a Nar:row range Type A statistic (code: A2AN) has a relative standard error of 5.2 percent, reitd from scale at left side of chart, or a standard error of 104,000 (5.2 percent of 2,000,000; . For a Wide range Type $B$ statistic (code: A2BW), an aggregate of 6,000,000 has a relative error of 22.2 percent or a standard error of $1,332,000(22.2$ percent of $6,000,000)$.

Relative standard errors for percentages based on two quarters of data collection for type A data, Wide 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 6.2 percent (read from 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 $X 6.2$ percent or 1.2 percentage points.

## APPENDIX II

# DEFINITIONS OF CERTAIN TERMS USED IN THIS REPORT 

## Terms Relating to Costs of <br> Medical and Dental Care

Costs of medical and dental care. -These are the total personal health expenses for medical and dental care during a specified 12 -month period. The National Health Survey collects data for each related member of a household in the survey sample during the specified 12 -month period. The total expenditures are defined as all bills paid (or to be paid) for medical and dental care by the person himself, his family, or friends and also any part paid by insurance whether paid directly to the hospital or doctor, to the person himself, or to his family. If a respondent does not know the exact amount paid by insurance, he is requested to estimate it and include it in the total bill.

For the National Health Survey, costs of medical and dental care exclude amounts paid (or to be paid) by workmen's compensation, charitable or welfare organizations, Federal, State, or local governmental programs, or other free care. Also excluded are expenses of persons residing in institutions at the time of interview.

If a baby is born in the household during the specified 12 -month period, the hospital and doctor bills relating to the baby's birth are counted in medical expenditures for the mother. However, all other medical expenditures relating to the baby's health are counted in the medical expenditures for the baby.

There are six categories of expenditures for medical and dental care as follows:

1. Doctors' bills.-Doctors' bills are defined as total bills paid (or to be paid) for medical care to doctors, including surgeons, for a person during the specified 12 -month period. Such bills include costs of operations, treatments, checkups, deliveries, pregnancy care, X-rays, laboratory fees, eye examinations, immunizations or shots, and any other doctors' services provided for the patient.
2. Hospital bills.-Hospital bills are the total expenditures paid (or to be paid) for hospitalizations of a person during the specified 12month period. Only hospitalizations for overnight or longer in a hospital (nursing home, rest
home, sanitarium, etc.) are counted. Hospltal bills include costs of room and board, operating and delivery room, anesthesia, special treatments, X-rays, tests, and any other hospital services provided for the hospitalized patient.
3. Medicine costs. - Medicine costs are total $⿰ \mathrm{x}$ penditures paid (or to be paid) for medicine for a person during the specified 12 -month period. The total expenditures for medicine include the costs of all kinds of medicine whether or not prescribed by a doctor, such as tonics, pills, prescriptions, salves, ointments, vitamins, and any other medicine.
4. Dentists' bills.-Dentists' bills are defined as the total bills paid (or to be paid) for derital care for a person during the specified 12 -month period. Dentists' bills include costs of fillings, extractions, cleanings, X-rays, bridgework, dental plates, straightening of teeth, and iny other dental services provided for the dertal patient.
5. Special medical expenses.-Special medival expenses paid (or to be paid) for a person during the specified 12 -month period include costs of the following: eyeglasses, hearing ails, special nursing, physical therapy, speech therapy, corrective shoes, chiropractors' fees, and special braces or trusses, wheelchairs, or artlficial limbs.
6. Other medical expenses.-All medical expens es for a person during the specified 12 -month 1 e riod not included above are classified as "other." For example, emergency or outpatient treatment in a hospital or clinic would be clasisified as "other."

## Family and Related Terms

The definitions of families and unrelated incividuals are the same as those used in the 1960 census.

Family refers to a group of two persons or mose related by blood, marriage, or adoption who ase living together in the same household. Although $t$ le
usual household contains only the primary family, a household can contain secondary families as well as individuals unrelated to the family. A lodger and his family who are not related to the head of the household, or a resident employee and his wife living in are considered as a secondary family and not as part of the primary family. However, if the son of the head of the household and the son's wife and children are members of the household, this subfamily is treated as part of the primary family.

Individuals are persons (other than inmates of institutions) who are not living with any relatives. An unrelated individual can be (a) a householdhead living alone or with nonrelatives, (b) a lodger or resident employee with no relatives in the household, (c) a staff member of an institution who has no relatives living with him, or (d) a resident of a dormitory, lodging house, or other sharedresidence facility who has no relative living with him.

Head of family is usually the person regarded as the "head" by the members of the group. Married women are never classified as heads if their husbands are living with them at the time of the survey except when the husband is a member of the Armed Forces. Only one person in each family can be designated as the head. Therefore, the number of heads of families is equal to the number of families.

Other family members are all persons who are related to the head of the family by blood, marriage, or adoption.

## Demographic Terms

Age.-The age recorded for each person is his age at last birthday. Age is recorded in single years and combined into groups suitable for purposes of the table.

Income offamily or of unvelated individuals. - 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 ending with the week of interview. Income from all sources
is included, e.g., wages, salaries, rents from property, pensions, and help from relatives.

Education of head of family. - Each member of a family is classified according to the education of the head 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 education.

The categories of educational status show the higheșt grade of school completed. Only grades completed in regular schools, where persons are given a formal education, are included. A "regular" school is one which advances a person toward an elementary or high school diploma or a college, university, or professional school degree. Thus, education in vocational, trade, or business schools outside the regular school system is not counted in determining the highest grade of school completed.

Color. - In this report, the population has been subdivided into two groups according to "white" and "nonwhite." 'Nonwhite" includes Negro, American Indian, Chinese, Japanese, and so forth. Mexican persons are included with "white" unless definitely known to be Indian or of another nonwhite race.

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

| Region | States Included |
| :---: | :---: |
| 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, Alaska, Washington, Oregon, California, Hawaii |

## APPENDIX III

## QUESTIONNAIRE

ormice or THE DIRECTOR

FORM NHS.6(a) (4-2-62)

## U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS WASHINGTON 25, D.C.

Budget Bureau No: 68-R620.6 Approval Expires July 15, 1963

## Dear Friend:

The Bureau of the Census, as collecting agent for the U.S. Public Health Service, is conducting a special survey on the cost of medical care. This study, when combined with other information, will serve to answer important questions about health and medical care costs in our Nation.

The Census interviewer who called at your household was asked to leave this form in order that all of the family members can take part in answering these questions, and that bills, receipts, and other records can be consulted. If you cannot supply exact amounts from bills or records, please give the best estimate you can.

We would appreciate your completing this form and mailing it back to us within five days. A self-addressed envelope which requires no postage has been provided for your convenience.

Your cooperation in answering these questions will be a definite public service. The information will be given confidential treatment by the Bureau of the Census and the U.S. Public Health Service. Nothing will be published except statistical summaries.

Thank you.


CONFIDENTIAL - This information is collected for the U.S. Public Health Service under authority of Public Law. 652 of the 84 th Congress ( 70 Stat. 489; 42 U.S.C. 305). All information which would permit identification of the individual will be held strictly confidential, will be used only by persons engaged in and for the purposes of the survey, and will not be disclosed or released to others for any other purposes ( 22 FR 1687).

## GENERAL INSTRUCTIONS

1. The name of each related member of the household has been entered on a separate page of this form. Please fill all sections of each page for each person listed.
2. The specific period we are asking about is the 12 month period from $\qquad$ to $\qquad$ .
3. In entering the total medical expenditures, count all bills paid (or to be paid) by the person himself, his family or friends and also any part paid by insurance, whether paid directly to the hospital or doctor, or paid to the person himself, or to his family. If you do not know exactly the amount paid by insurance, estimate it, and include it in the total bill.
4. Please do not count any amounts paid (or to be paid) by: Workmen's compensation
Non-profit organizations such as the "Polio Foundation"

Charitable or Welfare Organizations
Military Services, including Medicare
Veterans Administration
Federal, State, City, or County Government
5. If there are any babies in the household who were born during the past 12 months, the hospital and doctor bills relating to the baby's birth should be reported on the page for the mother. All other medical expenditures relating to the baby's health should be reported on the page for the baby.
6. After completing all sections of this form for each person in the household, please indicate below the name of the person or persons who filled it out.

Name $\qquad$

Name $\qquad$

| FOR | 1 | 2 | 3 | 4 |
| :--- | :---: | :---: | :---: | :---: |
| OFFICE |  |  |  |  |
| USE |  |  |  |  |
| ONLY |  |  |  |  |

FORM NHS-8(a) (4-2-62)


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[^0]:    U.S. DEPARTMENT OF
    health, education, and welfare
    John W. Gardner
    Secretary

[^1]:    Public Health Service Publication No. 1000-Series 10 -No. 41

[^2]:    ${ }^{1}$ U.S. Bureau of the Census: Households and families, by type, 1962. Current Population Reports, Series P-20, No. 119. Washington. U.S. Government Printing Office, Sept. 19, 1962.

[^3]:    ${ }^{2}$ Health Information Foundation: Trends in personal health spending. Progress in Health Services, Vol. XIV, No. 5. Chicago. The University of Chicago, Nov-Dec. 1965.

[^4]:    ${ }^{1}$ For example, the relative standard error of 8 percent for a per family expense of $\$ 10$ for a population group consisting of $1,000,000$ families can be obtained by the use of Rule 4 (b) described on page 34 and the values read from curves A2AW and A2AN on page 36.

