

Hospitalization in the Last Year of Life

United States - 1961

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





VITAL and HEALTH STATISTICS DATA FROM THE NATIONAL VITAL STATISTICS SYSTEM

Hospitalization in the Last Year of Life

United States - 1961

Statistics on place of death and on care received by decedents during the year preceding death in short-stay hospitals or resident institutions, and differences in the proportions receiving care associated with age, sex, color, residence, and cause of death. Based on data from a sample survey of hospitals and institutions providing care to property of THE persons dying in 1961.

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IN THIS REPORT results of a survey of hospitals and resident institutions concerning inpatient care provided during the last 12 months of life to a representative sample of persons dving in 1961 are presented. The report deals with statistics on decedents showing whether or not hospital or institutional care was received in the last year of life in short-stay hospitals or in resident institutions and the differences in the likelihood of care associated with age, sex, color, residence, and cause of death. The survey data show that there are large differences in the likelihood of care in hospitals and institutions among decedents classified by the 10 leading causes of death, varying from more than 9 in 10 persons who died of certain diseases of early infancy, congenital malformations, and malignant neoplasms receiving care to less than half of those who died from accidents. Females as a group more often received care in the last year of life than did males and white persons more often than nonwhite. Infants were more likely to have been hospitalized than persons of any other age. Apart from infants, the percent of persons with hospital or institutional care is lowest for the young and increases with age. The age pattern for both sexes combined applies also to males alone. Females of the young- to middle-adult years, however, display a peak in the proportion receiving care followed by a decline with age, so that the proportions of males and females receiving hospital and institutional care converge beyond age 75. Decedents from metropolitan areas were somewhat more likely to have received care in hospitals and institutions than those who resided elsewhere. Residents of the South, especially females, were less likely to have been hospitalized or institutionalized in the terminal year of life than those who had resided in other regions of the United States.

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	Quantity more than 0 but less than 0.05	0.0
	Figure does not meet standards of reliability or precision	*

HOSPITALIZATION IN THE LAST YEAR OF LIFE

Gordon F. Sutton, Division of Health Records Statistics

INTRODUCTION

This is the first report prepared in the Division of Health Records Statistics on the use of hospitals and resident institutions by recently deceased persons. Data are based upon information obtained in the National Mortality Survey from hospitals and institutions which provided care to a national probability sample of persons who died in 1961 and upon information found on death certificates for these persons.

The data collected in the National Mortality Survey may be viewed as extending for statistical purposes the range of items which are normally included on the certificate of death. This extension permits the preparation of estimates of deaths and of recently deceased persons by characteristics not previously available in national statistics. As a result, answers to many social and economic questions about conditions surrounding death and about differentials in mortality in the United States may be made available.

This report is concerned with persons who died in 1961 as to whether or not they had hospital or institutional care in the last year of life and the relationship between hospitalization and selected characteristics of decedents. The terms hospitalization and hospitalization experience in the last year of life are used in this report to refer to care received by deceased persons in the 12-month period before death in short-stay hospitals (places providing care which is usually of less than 30 days' duration) and in resident institutions

(chronic disease hospitals, nursing homes, and other places providing nursing or personal care).

Background of National Mortality Survey

During the period 1850 to 1900, mortality statistics published by the Federal Government were derived principally from reports collected in the decennial censuses. Since 1900, however, when the collection of mortality statistics on an annual basis was started for selected cities. and States included in the death-registration area, the death certificate has been the only source of data for national mortality statistics. During the early decades of this century, a major goal of the vital statistics system was to extend the deathregistration area to cover the entire United States. This was achieved in 1933, and since that year national mortality statistics for the entire country have been derived annually from statistical data reported on the death records. Since 1933 there have been continuing efforts to improve national mortality statistics by raising the level of completeness of registration of deaths and by improving the accuracy of data reported on death records.

It has become increasingly apparent in recent years that the statistics being derived from the information reported on the death record were not meeting the expanding needs for mortality data in public health, medical research, epidemiology, demography, and other related fields. The periodic revisions of the standard death record

since 1900 at intervals of about 10 years have produced a small net change in its content of statistical items. On the other hand, there have been phenomenal changes in American society during the 65-year period, particularly in the areas of health and medicine, which have greatly expanded and altered the needs for mortality statistics.

Yet, in seeking a solution to this problem, it seemed very unlikely and even undesirable that statistics derived from the death record would or should be able to cope with expanding needs for national mortality data. The registrars of vital events in State offices of vital statistics are generally opposed to enlarging the content of the death record for the purpose of expanding mortality statistics. From their viewpoint, the death record serves as a legal as well as a statistical document which has many nonstatistical uses. Furthermore they must consider the burden of the funeral directors and physicians who have to complete the forms. Vital statisticians are also not in sympathy with a plan to collect detailed statistical information annually for 1½ to 2 million deaths since the level of reliability usually needed in the estimates can be achieved by collecting detailed supplementary data for relatively small samples of deaths.

Beginning about 1956, attention was focused on the possibility of developing a survey methodology for collecting detailed information for relatively small samples of deaths. Research studies were undertaken to test and develop a particular methodology for deriving mortality statistics by means of conducting surveys linked to death records. This work culminated in the establishment in 1961 of the National Mortality Survey on a continuing basis.

Selected Findings

Of the 1.7 million persons who died in the United States in 1961, about 72 percent had one or more episodes of hospital or institutional care in the last year of life. Most frequently, this hospital or institutional experience took place in short-stay hospitals—places where medical services are provided to patients who are generally expected to stay less than 30 days. While 63 per-

cent of those who died in 1961 had some care in short-stay hospitals, just over 14 percent had some care in resident institutions providing medical or personal care. Included in these figures are the 5 percent of all decedents who had care in both short-stay and resident places.

Although only 28 percent of those who died in 1961 had no hospital or institutional care in the year before death, 39 percent were not in medical facilities at the time of death. Thus, 11 percent of all decedents were hospitalized some time in the last year of life yet did not die in a hospital or an institution. Of deaths occurring in hospitals and institutions, 823,000 were in short-stay hospitals and 214,000 in resident institutions.

Proportionately more females than males received care in hospitals or institutions in their last year of life (76 percent as compared with 70 percent). Most of this sex difference is accounted for by the more frequent use of resident institutions by females.

Twelve percent fewer nonwhite decedents were reported as having hospital or institutional care than white. Care was less frequent for non-white persons than for white in both short-stay hospitals and resident institutions.

Among regions, the South, with 67 percent of its decedents in 1961 having hospital or institutional care in the last year of life, departed somewhat from the level found in the other regions (Northeast, North Central, and West), where 74 to 75 percent of their decedents had such care. Metropolitan status of residence, that is, whether the decedent had last resided in a county containing metropolitan population or not, had little effect upon hospitalization in the 12-month period prior to death. About 73 percent of the 1.1 million decedents from metropolitan areas had been hospitalized compared with 70 percent of the 0.6 million decedents from nonmetropolitan areas.

When classified according to the 10 leading causes of death in 1961, the decedents most likely to have had hospitalization in the last year of life were infants who died of certain diseases of early infancy and of congenital malformations and elderly persons who died of malignant neoplasms. More than 90 percent of the decedents in each of these three cause groups had hospitalization experience. At the other extreme, only 48 percent

of those who died from accidental causes had hospital or institutional care in the last year of life.

Sources and Limitations of Data

Statistics presented in this report are based upon information obtained in a mail survey of hospitals and institutions which provided care to decedents identified on death certificates selected in a national probability sample of persons who died in 1961. The sample of 5,154 decedents was drawn by the systematic selection of 1 in 330 death records from the files maintained by the Division of Vital Statistics, National Center for Health Statistics. These statistics relate to persons who died in the United States during the 1961 calendar year and characterize these persons as to whether or not they had hospitalization during the last year of life.

The principal sources of information were hospitals and institutions which provided medical and personal care for the decedents during the 12-month period preceding death and the death certificate. In addition, the death record informant, usually a close relative of the decedent whose name and address appeared on the death certificate, was asked to provide information which would be helpful in locating hospitals and institutions which provided care.

Facsimiles of the hospital and institution and informant questionnaires and of the death certificate appear in Appendix III. A description of the procedures of the National Mortality Survey may be found in Appendix I, along with a description of the estimation procedures. Definitions of terms used in this report are stated in Appendix II.

The data in this report are based on a sample and are therefore subject to sampling error. Tables of approximate sampling error and instructions for their use are presented in Appendix I. Other sources of error such as those associated with nonresponse, with possible misunderstanding of questions in the survey, and with undetected problems in the processing and compiling of the statistics affect the quality of the data presented in this report and may create bias in the statistics. Nonsampling errors and some measures relating to bias in the survey are also discussed in Appendix I.

DEATHS OCCURRING IN HOSPITALS AND INSTITUTIONS, 1937-61

National statistics on deaths occurring in hospitals and institutions have been published a number of times. In 1937 when annual data were first available on this subject, 37 percent of all deaths were reported as occurring in hospitals and institutions. In a series of annual statistics on this subject covering the years following 1937, there was a gradual but steady increase in the percent of deaths occurring in hospitals and institutions until 1949, when 50 percent of all deaths were recorded as occurring in such places. 1

After 1949 data are not available again except for 1958. At that time 61 percent of all deaths were reported as occurring in hospitals and institutions. Thus over a 21-year period, sizable increases in both the number and the relative frequency of deaths occurring in hospitals and institutions have been reported.

Data collected in the National Mortality Survey describe once more the frequency with which death occurred in hospitals and institutions in 1961 (tables 1 and 2). Data are also available from the survey which characterize the population that died in 1961 as to total hospitalization experience in the last year of life. In both 1961 and 1958, 61 percent of all deaths occurred in hospitals and institutions.3 while 72 percent of all decedents in the 1961 survey had hospital or institutional care at some time during the last year of life (table A). Hence, the inquiry into hospitalization of decedents in the last year of life shows that 11 percent of all decedents had hospital or institutional care in the last year of life but had not died in a hospital or, an institution.

Care in the Last Year of Life by Cause of Death

Cause of death is related to both the likelihood of a death occurring in a hospital or an institution and to the likelihood of a decedent having hospitalization experience during the last year of life. The estimated number of decedents in 1961 with hospitalization experience in the last year of life was 19 percent greater than the estimated number of deaths occurring in hospitals

Table A. Percent of decedents with deaths occurring in hospitals or institutions and with hospitalization experience in last year of life, by sex and color: United States, 1958 and 1961

	1958 ¹	1961		
Sex and color	Deaths occurring in hospital or institution	Deaths occurring in hospital or institution	With hospitalization experience in last year of life	
9-		Percent		
Total	60.9	60.9	72.2	
MaleFemale	59.9 62.2	57.9 64.9	69.6 75.6	
White Nonwhite	61.9 53.2	62.0 52.6	73.2 64.3	

Data selected from National Office of Vital Statistics, <u>Vital Statistics of the United States, 1958</u>, Volume II, table 67, Public Health Service, Washington, U.S. Government Printing Office, 1960.

Table B. Number of decedents and percent with deaths occurring in hospitals or institutions and with hospitalization experience during the last year of life, by cause of death: United States, 1961

Cause of death	Number of decedents in thousands	occurring in hospital or	With hospitalization experience in last year of life	
		Percent		
All deaths	1,702	60.9	72.2	
Diseases of heart	663	49.2	61.2	
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	270	73.1	93.2	
Vascular lesions affecting central nervous system	192 95	67 . 5 40 . 9	76.0 48.4	
Certain diseases of early infancy Influenza and pneumonia, except pneumonia	68	95.4	95.4	
of newbornGeneral arteriosclerosis Diabetes mellitus Congenital malformations	55 34 29 21	66.7 69.6 71.7 90.3	73.4 77.0 78.4 95.0	
Cirrhosis of liverAll other causes	20 255	87.0 63.7	88.7 73.6	

ŧ

and institutions. The relationship between the two kinds of statistics varies widely depending upon the cause of death (table B). For persons who died of certain diseases of early infancy (98 percent of which were represented by neonatal death, i.e., occurring in the first 28 days of life), the number dying in a hospital and the number having hospitalization experience were about the same. Of those who died of cirrhosis of the liver, the estimated number of persons having hospitalization experience was only 2 percent greater than the estimated number dying in hospitals or institutions. The comparable figure for deaths attributable to vascular lesions was 13 percent.

In contrast, the estimated number of persons who died of malignant neoplasms and who had hospitalization experience in the last year of life was about 27 percent larger than the estimate of those who died in hospitals or institutions and about 24 percent larger for persons who died of diseases of heart.

Type of Service and Place of Death

Care of decedents in hospitals and institutions can be viewed according to the kind of facility in which it was received: (a) care received in short-stay hospitals and (b) care received in resident institutions. Of the approximately 1 million persons who died in hospitals and institutions in 1961, most had care only in short-stay hospitals (table C and tables 3 and 4). Of those who died in short-stay hospitals, a very small proportion had received additional care in resident institutions in the last year of life; whereas among the group who died in resident institutions, nearly a third had additional care in short-stay hospitals.

About 665,000 persons, or about 39 percent of all decedents, died outside of hospitals in 1961 (tables 5 and 6). Although they were not in hospitals or institutions at the time of death, 29 percent of these persons had some hospitalization experience in the last year of life. And of this group who had hospitalization experience but who died outside of hospitals and institutions, more than 9 out of 10 had experience only in short-stay hospitals.

As is apparent from the above, use of the death certificate in attempting to estimate hospital or institutional care received by deceased persons in the year prior to death is deficient in two respects. First, more than one-fourth of the 665,000 deaths that occurred outside hospitals represent decedents who had hospital care in the last year of life. Second, 70,000 persons who died in resident institutions and 19,000 persons who died in short-stay hospitals had additional care in a different kind of facility which could not be detected on the death record.

HOSPITALIZATION EXPERIENCE IN THE LAST YEAR OF LIFE

Of the 1,702,000 persons who died in the United States in 1961,72 percent had at least some care inthospitals or institutions in the 12 months preceding deaths (tables 7 and 8). When these hospitals and institutions are classified by kind of facility, 58 percent of all decedents had received care only in short-stay hospitals, 9 percent only in resident institutions, and the remaining 5 percent had received some care in both short-stay hospitals and resident institutions.

Sex, Age, and Color

A somewhat larger proportion of females than of males had hospitalization experience in the last year of life. Of the 735,000 females who died in 1961, 76 percent had been hospitalized as compared with only 70 percent of the 968,000 male decedents. A large part of this sex difference is accounted for by the larger proportion of females who received care in resident institutions. The proportions of males and females with care in short-stay hospitals are about the same.

Infants who died in the first year of life received hospital care more frequently than persons of any other age. In contrast, relatively few persons who died at ages 1-24 had hospitalization experience in the year prior to death. After age 24, however, the likelihood of hospitalization increased with advancing age, attaining a maximum

Table C. Number and percent distribution of decedents with and without hospitalization experience in the last year of life, by place of death and kind of facility which provided care: United States, 1961

			Pla	ce of death		
Hospitalization experience	A11	Inah	ospital or	institution	Outside	
	decedents	Total	Short- stay hospital	Resident institution	hospitals and institutions	
		Number	of decedent	s in thousand	s	
Total	1,702	1,037	82,3	214	665	
With hospital or institu- tional care	1,229	1,037	823	214	192	
In short-stay hospitals	1,076	893	823	70	183	
Without additional care in resident institutions- With additional care in	984	804	804	•••	180	
resident institutions	92	89	19	70	3	
In resident institutions only	153	144	•••	144	9	
Without hospital or institutional care	474	• • •		,	474	
		P	ercent dist	ribution		
Total	100.0	100.0	100.0	100.0	100.0	
With hospital or institutional care	72.2	. 100.0	100.0	100.0	28.8	
In short-stay hospitals	63.2	86.1	100.0	32.8	27.5	
Without additional care in resident institutions- With additional care in resident institutions	57.8 5.4	77.6 8.6	97.7 2.3		27.0	
In resident institutions only	9.0	13.9		67.2	1.3	
Without hospital or institutional care	27.8	• • •	•••	•••	71.2	

at ages 65-74 and falling off somewhat among those 75 years and over.

The age pattern in the proportion of male decedents who had hospitalization was similar to that observed for both sexes combined, but it ap-

peared more pronounced. Female decedents, on the other hand, had a different pattern of hospital and institutional experience. First, except for infants and for those persons 75 years and over, more female decedents than male had episodes in hospitals or institutions in the last year of life. Second, there was a gradual decline with age in the percent of female decedents with hospitalization experience from a peak in the age group 25-44. Thus, the percent of women having hospitalization experience decreased with age after the young- to middle-adult years, while the percent of males with such experience increased. Beyond age 75, the sex differences are negligible or are reversed. Among both males and females of all ages, most of the care received by decedents with hospitalization experience was in short-stay hospitals; care in resident institutions became relatively important only for the older group of decedents, those 65 years and over.

Although white females were more frequently hospitalized during the year before death than their male counterparts, the apparent sex dif-

ference for nonwhite persons could be accounted for by sampling variation (tables 9 and 10). Furthermore, color differences appeared to outweigh those by sex as indicated by evidence that proportionately fewer nonwhite females had hospitalization experience than white males (fig. 1). About 77 percent of white female decedents had received hospital or institutional care as compared with only 66 percent of the nonwhite, and 71 percent of white males had hospital experience compared with 63 percent of the nonwhite male decedents.

The pattern of convergence in the proportions of males and females having hospitalization experience as age increased, noted above, was found again among white persons. The same pattern was found among nonwhite persons but was less pronounced (fig. 2).

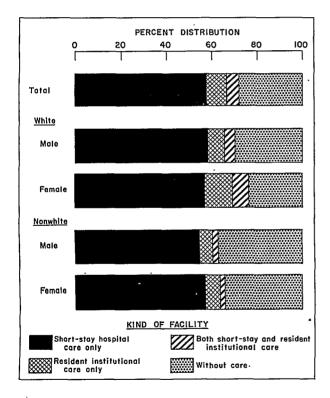


Figure 1. Percent distribution of decedents with and without hospitalization experience in the last year of life, by color, sex, and kind of facility which provided care.

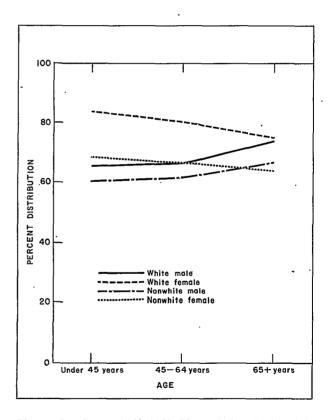


Figure 2. Percent distribution of decedents with hospitalization experience in the last year of life, by sex, color, and age.

The one instance in which sex differences seemed to outweigh color differences was in the comparison of the percent of decedents aged 65 years and over who had experience only in resident institutions. Elderly female decedents, both white and nonwhite, were more likely to have had only such care (16 percent of the white and 15 percent of the nonwhite) than male decedents (9 and 10 percent). Although data on marital status are not presented in this report, the greater prevalence of widowhood among living elderly females ⁴ as well as the greater survivorship of females may be important in accounting for sex differences.

Regional Variations

The proportion of decedents with hospital or institutional care in the 12-month period preceding death varied markedly among regions only insofar as the South departed from the higher level of the other three regions taken together (tables 11 and 12). The variations among regions

by kind of facility which provided care departed from the pattern for all care combined. Although the South persisted as the region with the fewest decedents having hospital and institutional episodes in short-stay hospitals and in resident institutions, the differences among regions were only marginal in the percent of decedents having short-stay hospital care only. Larger differences were found, however, in contrasting the South with each of the other regions as to the percent of decedents with care in resident institutions (table D).

For both males and females, relatively fewer decedents in the South had episodes of hospital or institutional care in contrast with persons who died in other regions. The regional differences were somewhat greater for females than for males. Although male decedents in the South were less likely to have had only short-stay hospital experience than those in the rest of the Nation, females who died in the South did not differ in this respect from females who died in other regions; the important factor which distinguished

Table D. Number of decedents and percent distribution of decedents with and without hospitalization experience in the last year of life, by geographic region and kind of facility which provided care: United States, 1961

	All dece	edents	exper	with hospi ience in t year of li	talization he last fe	Percent	
Region	*************		In short-	In resident	In short-stay	without hospitalization experience in the last year of life	
	Number in thousands	Percent	stay hospitals only	insti- tutions only	hospitals and resident institutions		
].	I	Percent di	stribution		
All regions-	. 1,702	100.0	57.8	9.0	5.4	27.8	
Northeast	470	100.0	57.4	10.1	·6 . 2	26.3	
North Central-	493	100.0	60.5	9.1	5.7	24.8	
South	498	100.0	56.0	7.1	4.0	32.9	
West	241	100.0	56.8	10.5	6.2	26.5	

the female decedents in the South from female decedents in other regions was the small proportion of Southern women who had care in resident institutions.

Hospitalization experience of persons dying at ages under 45 and 45-64 years was comparatively less frequent for the South and the West than for the remainder of the country. Persons who died at ages 65 and over, however, were somewhat more likely to have received care in the last year of life if they had lived in the West or North Central Regions than if they had lived elsewhere.

In the West and South, male decedents under age 45 and both males and females aged 45-64 were, again, somewhat less frequent users of

hospitals and institutions than decedents in the rest of the country. For both males and females who died at age 65 or later, those in the West were among the most frequent users of hospital and institutional services. When compared with the Western male of similar age, however, the elderly Western female was somewhat more likely to have had care in resident institutions. Moreover, the large proportion of older persons with care in resident institutions in the West is accounted for in the main by female decedents. Similarly, of the females in the South whose relative infrequent use of resident institutions is so noticeable, it was the group over 65 years of age which departed so markedly from comparable age-sex groups in other regions (table E).

Table E. Number of decedents and percent distribution of decedents <u>65 years and over</u> with and without hospitalization experience in the last year of life, by geographic region, sex, and kind of facility which provided care: United States, 1961

a management of the second sec									
í	All decedents		Perc	_					
Sex and region	65 ye and e			In	resident inst	itutions	Percent without hospitalization		
			In short-		Without	With	experience in the last year of life		
	Number in thousands	Percent	stay hospitals	Total	additional care in short-stay hospitals	additional care in short-stay hospitals			
<u>Male</u>			Percent distribution						
.All regions	9.68	100.0	57.5	15.7	'9.4	6.3	26.8		
Northeast North Central South West	260 281 290 136	100.0 100.0 100.0 100.0	56.5 58.9 55.7 60.4	18.3 13.7 13.5 19.4	10.9 9.2 7.7 10.3	7.4 4.5 5.8 9.0	25.2 27.4 30.8 20.3		
Female	7.35	100.0	′49 . 8`	24.3	1:5.7	8.6	25 . 9		
Northeast North Gentral South West	.210 .211 208 .106	100.0 100.0 100.0 100.0	48.2 51.5 50.4 48.3	23.5 27.6 17.5 31.7	15.4 15.4 12.2 23.5	8.1 12.2 5.3 8.2	28.3 20.9 32.1 20.0		

Metropolitan Status

Although statistical evidence was present to suggest that the percent of decedents having hospital and institutional care in the last year of life was somewhat greater for the larger metropolitan areas than for the smaller metropolitan and nonmetropolitan areas, the differences were marginal (tables 13 and 14). The same pattern was observed when male and female decedents were considered separately. The differences by metropolitan status for those aged 65 years and over in care provided in all places, as well as that provided in short-stay and resident institutions separately, were negligible. For those aged 45-64 years and for those under 45 years, however, decedents in metropolitan areas, particularly the larger areas, appeared to have had more care than those in nonmetropolitan areas.

Cause of Death

As is seen in tables 15 and 16, the probability of hospitalization during the last year of life varied greatly among groups of decedents classified by the 10 leading causes of death. Among these leading causes of death, the percent of decedents who received care in the 12-month period prior to death varied from more than 90 percent for those who died of malignant neoplasms, congenital malformations, and certain diseases of early infancy to less than 50 percent for those who died from accidents. Deaths caused by congenital malformations and by certain diseases of early infancy, which occur mainly during the first days of life.

almost always represent decedents with hospitalization experience because of the very large proportion of births in the United States which occur in hospitals. For each of the 10 leading causes of death, except general arteriosclerosis, most decedents with hospitalization experience had care only in short-stay hospitals.

Of persons who died of heart disease and, particularly, accidents, females were more likely than males to have received care in the year before death. The reverse appeared to be indicated, however, for deaths attributable to general arteriosclerosis.

Hospital and institutional care for persons who died of heart disease, malignant neoplasms, and accidents varied noticeably by age (table F). The likelihood of care increased with age among those who died of accidents. Similarly, there was evidence of an increase among those who died of diseases of heart. Persons dying of malignant neoplasms, by contrast, showed a decline in care with age.

In general, among the 10 leading causes of death except congenital malformations and certain diseases of early infancy, the percent of decedents having care in resident institutions increased with increasing age. For those who died of malignant neoplasms, this relationship was countered by a sharp decline in the percent who had care in short-stay places. Among persons who died of accidental causes, the increase with age in hospitalization experience was much more pronounced for short-stay hospital care than for care in resident institutions.

Table F. Number of decedents and percent distribution of decedents with and without hospitalization experience in the last year of life, by selected cause of death, age, and kind of facility which provided care: United States, 1961

·	All dece	edents		Percent with experienc year	Percent without		
Selected causes of death and age				In short-	In resident	In both short-stay hospitals	hospitalization experience in the last year of life
	Number in thousands	Percent	TOLAT	hospitals only	insti- tutions only	and resident institutions	
All causes				Perc	ent distri	bution	
All ages	1,702	100.0	72.2	_ 57.8	9.0	5.4	27.8
Under 45 years 45-64 years 65+ years	270 419 1,014	100.0 100.0 100.0	70.5 69.8 73.6	67.0 61.4 53.9	2.1 5.1 12.4	1.4 3.2 7.4	29.5 30.2 26.4
<u>Diseases</u> of heart							
All ages	663	100.0	61.2	46.7	9.7	4.8	38.8
Under 45 years45-64 years65+ years	23 171 469	100.0 100.0 100.0	55.6 53.9 64.1	51.5 48.6 45.7	4.1 4.3 11.9	1.0 6.5	44.4 46.1 35.9
Malignant neoplasms ¹							
All ages	270	100.0	93.2	81.5	5.6	6.1	6.8
.Under 45 years 45-64 years 65+ years	26 97 147	100.0 100.0 100.0	97.4 95.9 90.7	91.5 84.6 77.7	2.5 5.8 6.1	3.4 5.5 7.0	2.6 4.1 9.3
Accidents			,				
All ages	95	100.0	48.4	43.6	2.0	2.8	51.6
Under 45 years 45-64 years 65+ years	51 22 23	100.0 100.0 100.0	31.7 50.0 83.7	29.9 46.9 70.6	1.8 1.6 3.0	1.5 10.1	68.3 50.0 16.3
<u>All</u> other causes				,			
All ages	674	1,00.0	77.9	61.3	. 10.6	6.1	22.1
Under 45 years 45-64 years 65+ years	170 129 - 375	100.0 100.0 100.0	79.9 74.4 78.3	76.3 63.4 53.7	1.9 6.4 16.0	1.7 4.6 8.6	20.1 25.6 21.7

 $^{^{1}\}mathrm{Includes}$ neoplasms of lymphatic and hematopoietic tissues.

REFERENCES.

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¹National Office of Vital Statistics: Vital Statistics of the United States, 1949, Part I. Public Health Service. Washington. U.S. Government Printing Office, 1951. pp. LII and LIII.

²National Office of Vital Statistics: Vital Statistics of the United States, 1958, Volume I. Public Health Service. Washington. U.S. Government Printing Office, 1960. pp. 6-7 and 6-8.

³The values based on the 1961 survey may be expected to differ somewhat from comparable values obtained in the vital statistics reports insofar as the definition of "death in an institution" differs between the two sources and for other reasons; see Appendix II.

⁴Sheldon, H. D.: The Older Population of the United States. New York. John Wiley and Sons, Inc., 1958. p. 91.

⁵A more comprehensive discussion of the procedures used in the National Mortality Survey may be found on pp. 7-11 of National Vital Statistics Division, *Design of Surveys Linked to Death Records*, Public Health Service, Washington, D.C., Sept. 1962.

⁶National Vital Statistics Division: Vital Statistics of the United States, 1961, Volume II, Part A. Public Health Service. Washington. U.S. Government Printing Office. 1964, table 5-11.

⁷National Vital Statistics Division: Vital Statistics of the United States, 1961, Volume II, Part A. Public Health Service. Washington. U.S. Government Printing Office, 1964. pp. 7-11 through 7-13.

⁸National Vital Statistics Division: Vital Statistics of the United States, 1961, Volume II, Part A. Public Health Service. Washington. U.S. Government Printing Office, 1964. pp. 7-8 and 7-9.

⁹U.S. Bureau of the Census: U.S. Census of Population: 1960. Number of Inhabitants, United States Summary. Final Report PC(1)-1A. Washington. U.S. Government Printing Office, 1961.

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Table 1. Number of decedents, by place of death and selected characteristics: United States, 1961

		Place of death				
Characteristic	All decedents	In a	hospital or i	nstitution	Outside	
<u>.</u>	,	Total	Short-stay hospital	Resident institution	hospitals and institutions	
		Number	of decedents	in thousands		
Total	1,702	1,037	823	214	665	
<u>Sex</u>						
Male	968	560	468	92	407	
Female	735	477	355	122	258	
Color						
White	1,499	930	731	198	569	
Nonwhite	203	107	91	15	96	
Age						
Under 45 years	270	169	164	. 5	100	
45-64 years	419	235 633	206 453	29	184	
Region	1,014	033	455	179	381	
 		_				
Northeast	470 493	293 320	226 258	67 63	178	
South	498	270	222	48	172 228	
West	241	154	118	36	87	
Metropolitan status						
Metropolitan	1,062	664	525	139	398	
Nonmetropolitan	·640	373	298	75	267	
. <u>Cause of death</u>						
Diseases of heart Malignant neoplasms, including	663	326	240	86	337	
neoplasms of lymphatic and hematopoietic tissuesVascular lesions affecting	270	197	169	28	73	
central nervous system	192 95	130 39	89 37	41	63 56	
Certain diseases of early infancy	68	. 65	37 65	2 *	56 3	
Influenza and pneumonia, except pneumonia of newborn	55	37	24	. 13	18	
General arteriosclerosis Diabetes mellitus	34 29	24 21	9 16	15 ¹	10 8	
Congenital malformationsCirrhosis of liver	21 20	19 18	17 16	1 2	2 3	
All other causes	255	162	141	21	92	

Table 2. Percent distribution of decedents, by place of death according to selected characteristics: United States, 1961

		Place of death					
Characteristic	A11 decedents	In a	hospital or i	nstitution	Outside hospitals		
		Total	Short-stay hospital	Resident institution	and institutions		
			Percent distr	ibution			
Total	100.0	60.9	48.3	12.6	39.1		
<u>Sex</u>							
Male	100.0	57.9	48.3	9.5	42.1		
Female	100.0	64.9	48.3	16.6	35.1		
Color							
White	100.0	62.0	48.8	13.2	38.0		
Nonwhite	100.0	52.6	45.0	7.6	47.4		
Age					•		
Under 45 years	100.0	62.8	60.7	2.0	37.2		
45-64 years	100.0	56.1	49.1	7.0	43.9		
65+ years	100.0	62.4	44.7	17.7	37.6		
Region					•		
Northeast	100.0	62.2	48.0	14.2	37.8		
North Central	100.0	65.0	52.3	12.7	35.0		
South	100.0 100.0	54.2 63.9	44.5 48.9	9.7 15.0	45.8 36.1		
west	100.0	03.9	40,9	13.0	30.1		
Metropolitan status							
Metropolitan	100.0	62.5	49,4	13.1	37.5		
Nonmetropolitan	100.0	58.3	46.6	11.7	41.7		
Cause of death		,					
Diseases of heart Malignant neoplasms, including	100.0	49.2	36.1	13.0	50.8		
neoplasms of lymphatic and hematopoietic tissues	100.0	73.1	62.7	10.4	26.9		
Vascular lesions affecting central nervous system	100.0 100.0	67.5 40.9	46.1 38.8	21.4 2.1	32.5 59.1		
Certain diseases of early infancy Influenza and pneumonia, except	100.0	95.4	94.8	*	4.6		
pneumonia of newborn	100.0 100.0	66.7 69.6	43.6 26.9	23.2 42.7	33.3 30.4		
Diabetes mellitus	100.0	71.7	55.7	15.9	28.3		
Congenital malformations	100.0 100.0	90.3 87.0	83.7 77.1	6.6	9.7 13.0		
All other causes	100.0	63.7	55.6	8.2	36.3		

Table 3. Number of persons who died in hospitals and institutions, by kind of hospitalization experience in the last year of life and selected characteristics: United States, 1961

	and selected co	l		<u> </u>					
•	Persons who died in	Deat	h occurring in hospitals	snort-stay	Deatr	Death occurring in resident institutions			
Characteristic	hospitals and institutions	Total	With no care in resident institutions	With some care in resident institutions	Total	With no care in short-stay hospitals	With some care in short-stay hospitals		
			Number of p	ersons in thou	sands				
Total	1,037	823	804	19	214	144	70		
<u>Sex</u>			:						
Male	560	468	458	10	92	61	31		
Female	477	355	346	9	122	83	39		
Color									
White	020	721	710		100	100			
Nonwhite	930 107	731 91	713 91	18	198 15	132	67		
•							•		
Age									
Under 45 years	169	164	163	. 1	5	3	2		
45-64 years	235	206	203	2	29	19	4 10		
65+ years	633	453	437	16	179	121	58		
Region									
Northeast	293	226	220	6	67	45	22		
North Central	320	258	251	6	63	42	21		
South	270	222	218	4	48	33	15		
West	154	118	115	3	36	24	12		
Metropolitan status						:			
Metropolitan	664	525	513	11	139	94	45		
Nonmetropolitan	373	298	291	, 7	75	50	25		
Cause of death			_						
Diseases of heart	326	240	234	6	86	62	25		
neoplasms of lymphatic and hematopoietic tissues	197	169	167	2	28	14	14		
Accidents	130 39	89 37	85 35	3 2	41 2	27 1	14 1		
Certain diseases of early infancy Influenza and pneumonia, except pneumonia of newborn	65	65	65	*	*	*	*		
General arteriosclerosis Diabetes mellitus	37 24 21	24 9 16	23 9 15	1 * 1	13 15 5	11 9 3	2 5		
Congenital malformations	19 18	17 16	17 15	* 1	1 2	* 1	2 5 1 1 1		
, causes	162	141	138	4	21	15	6		

Table 4. Percent distribution of persons who died in hospitals and institutions, by kind of hospitalization experience in the last year of life according to selected characteristics: United States, 1961

	Persons who	Deat	h occurring in hospitals	short-stay	Death	eath occurring in resident institutions		
Characteristic	died in hospitals and institutions	Total	With no care in resident institutions	With some care in resident institutions	Total	With no care in short-stay hospitals	With some care in short-stay hospitals	
			Percer	nt distribution	ı		,	
Total	100.0	79.4	77.6	1.8	20.6	13.9	6.8	
<u>Sex</u>						,		
Male	100.0	83.5	81.8	1.8	16.5	10.9	5.6	
Female	100.0	74.5	72.6	1.9	25.5	17.4	8.1	
<u>Color</u>	}							
White	1	78.7	76.7	1.9	21.3	14.2	7.2	
Nonwhite	100.0	85.5	84.9	0.7	14.5	11.1	3.3	
Age .				,				
Under 45 years	100.0	96.8	96.4	0.4	3.2	1.9	1.3	
45-64 years	100.0	87.6	86.6	1.0	12.4	8.2	4.2	
65+ years	100.0	71.7	69.2	2.5	28.3	19.2	9.2	
Region								
Northeast	100.0	77.1	75.1	2.0	22.9	15.4	7.5	
North Gentral	100.0	80.4	78.5	2.0	19.6	13.1	6.5	
South	100.0	82.2 76.5	80.7 74.8	1.5	17.8 23.5	12.1	5.7 7.7	
HESC.	100.0	,0.5	74.0	1.,,	23.3	15.0	'.'	
Metropolitan status								
Metropolitan	100.0	79.0	77.3	1.7	21.0	14.2	6.8	
Nonmetropolitan	100.0	79.9	78.0	1.9	20.1	13.4	6.7	
Cause of death								
Diseases of heart	100.0	73.5	' 71.7	1.8	26.5	18.9	7.6	
neoplasms of lymphatic and hematopoietic tissues	100.0	85.8	84.8	1.0	14.2	6.9	7.3	
Vascular lesions affecting central nervous system	100.0	68.3	65.8	2.5 4.2	31.7	20.8	10.9	
Accidents	100.0 100.0	94.8 99.4	90.6 99.4	4.2 *	5.2	2.6	2.6 *	
Influenza and pneumonia, except pneumonia of newborn	100.0 100.0	65.3 38.7	62.5 38.7	2.7	34,7	30.2 38.3	4.5 23.0	
Diabetes mellitus	100.0	77.7 92.7	74.6 92.7	3.1	61.3 22.3 7.3	16.0	6.3 5.5	
Girrhosis of liverAll other causes	100.0	88.6 87.2	85.0 84.9	3.6 2.3	11.4 12.8	7.5 9.3	3.9 3.5	

Table 5. Number of persons who died outside hospitals and institutions with and without hospitalization experience in the last year of life, by kind of facility which provided care, and selected characteristics: United States, 1961

	_		With	hospital or in	nstitutional ca	are	
·	Persons who died outside		I	n short-stay ho	spitals		Without hospital
Characteristic	hospitals . and institutions	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and institutional care
			Nu	mber of persons	in thousands		
Total	665	192	183	180	3	9	474
Sex							
Male	407	113	107	105	2.	7	294
Female	258	79	77	75	2	2	17'9
•							
Color							
White	569	168	160	157	3	8	401
Nonwhite	96	24	23	23	*	1	72
•							
Age							
Under 45 years	100	21	18	17	1	2	80
45-64 years	184	57	55	54	1	2	127
65+ years	381	114	110	109	1	4	267
Region				· ,			
Northeast	178	54	52	50	2	2	124
North Central	172	50	48	47	1	3	122
South	228	64	62	61	,*	3	164
West	87	23	22	· 22	*	1	64
Mėtropolitan status							
,							
Metropolitan	398	114	110	107	2	5	284
Nonmetropolitan	267	78	74	73	1	4	190
Cause of death							
Diseases of heart Malignant neoplasms, including neoplasms of lymphatic and	337	80	77	76	1	3	258
hematopoietic tissues Vascular lesions affecting	73	54	53	53	*	2	18
central nervous system	63 56 3	16 7 *	15 6 *	15 6 *	1 * *	1 1 *	46 49 *
Influenza and pneumonia, except pneumonia of newbornGeneral arteriosclerosis	18	4	4	3	*	*	15
Diabetes mellitus Congenital malformations	10 8 2	3 * *	3 * *	· 3 * *	* * *	* * *	8 * *
Cirrhosis of liverAll other causes	2 3 92	* 25	* 23	* 22	* 1	* 3	* 67

Table 6. Percent distribution of persons who died outside hospitals and institutions with and without hospitalization experience in the last year of life, by kind of facility which provided care according to selected characteristics: United States, 1961

			With	hospital or in	nstitutional ca	are	
	Persons who died outside		Ir	short-stay ho	spitals		Without hospital
Characteristic	hospitals and institutions	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and institutional care
				Percent dist	ribution		
Total	100.0	28.8	27.5	27.0	0.5	1.3	71,2
<u>Sex</u>							
Male	100.0	27.8	26.1	25.8	0.4	1.7	72.2
Female	100.0	30.4	29.7	29.1	0.6	0.7	69.6
Color					,		
White	100.0	29.5	28.1	27.6	0.5	1.4	70.5
Nonwhite	100.0	24.8	24.1	23.8	*	0.6	75.2
		l j					
Age							
Under 45 years	100.0	20.7	18.3	17.3	1.0	2.4	79.3
45-64 years	100.0	31.1	29.9	29.3	0.5	1.3	68.9
65+ years	100.0	29.9	28.8	.28.5	0.3	1.0	70.1
Region	(}			
Northeast	100.0	30.5	29.2	28.3	0.9	1.3	69.5
North Central	100.0	29.3	27.6	27.0	0.6	1.7	70.7
South	100.0	28.1	27.0	26.9	*	1.1	71.9
West	100.0	26.5	25.4	25.0	*	1.1	73.5
Metropolitan status					•		
Metropolitan	100.0	28.7	27.5	26.9	0.6	1.2	71.3
Nonmetropolitan	100.0	29.0	27.6	27.2	0:4	1.4	71.0
Cause of death			:			ji	
Diseases of heart	100.0	23.6	22.9	22.5	0.4	0.8	76.4
neoplasms of lymphatic and hematopoietic tissues	100.0	74.8	72.5	72.5	*	2.3	25.2
Vascular lesions affecting central nervous system	100.0 100.0	26.0 12.6	24.5 11.1	23.5 11.1	1.1	1.5 1.6	74.0 87.4
Accidents	100.0	12.0	. *	*****	*	*	*
pneumonia of newbornGeneral arteriosclerosis	100.0 100.0	20.0 24.5	20.0 24.5	18.0 24.5	*	*	80.0 75.5
Diabetes mellitus	100.0 100.0	* * *	* *	*	* * *	* * *	*' * *
All other causes	100.0 100.0	27.2		23.4	1.0	2.8	72.8

Table 7. Number of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, sex, and detailed age: United States, 1961

			With	hospital or in	nstitutional ca	ıre	
			I	n short-stay ho	ospitals		Without hospital
Sex and age	A11. decedents	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and institutional care
Both sexes			Num	ber of decedent	ts in thousands	3	
All ages	1,702	1,229	1,076	984	92	153	474
Under 45 years	270	190	184	181	4	6	• 80
Under 1 year 1-24 years 25-44 years	108 58 103	90 34 66	89 33 62	89 32 60	* 2 2	* 1 5	18 25 37
45-64 years	419	292	270	257	13	22	127
45-54 years 55-64 years	. 153 266	103 189	95 175	92 166	3 10	8 13	50 77.
65+ years	1,014	746	621	546	75	125	267
65-74 years 75-84 years 85+ years	416 408 190	309 302 136	279 248 93	, 260 214 72.	19 34 22	30 53 42	107 106 54
<u>Male</u>							
All ages	968	673	606	563	43	, 68	294
Under 45 years	163	105	101	100	2	4	, 58
Under 1 year	62 37 64	52 19 34	52 19 31.	52 18 30	* * . 1	* * 3	10 18 30
45-64 years	270	1.77.	163	155	8	14	93
45-54 years55-64 years	98 172	60 117	55 108	54 102	2 6	5 9	38 55
65+ years	535	391	341	307	34	. 50	143
65-74 years 75-84 years 85+ years	248 208 79	180 151 60	165 130 47	154 115 38	10 15 9	15 22 13	68 56 19
<u>Female</u>			r	3	,		
All ages	735	555	470	: 421	49	85	179
Under 45 years	107	85	83	81	2.	2	22
Under 1 year	46 21 40	38 15 32	38 15 31	37 13 30	, * 1 1	* 1 2	8 6 7
45-64 years	149	11.5	107	102	6	8	34
45-54 years, 55-64 years,	55 94	43 72	40 68	38 64	2 4	3 4	12 22
65+ years	479	355	280	239	41	75	124
65-74 years 75-84 years 85+ years	168 201 111	129 150 75	115 119 46	106 99 34	9 19 13	14 31 29	39 50 35

Table 8. Percent distribution of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care according to sex and detailed age: United States, 1961

			With	hospital or i	nstitutional c	are	
	A11		1	n short-stay h	ospitals		Without hospital
Sex and age	decedents To	Total	Total,	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and institutional care
Both sexes				Percent dist	ribution		
All`ages	100.0	72.2	63.2	57.8	5.4	9.0	27.8
Under 45 years	100.0	70.5	68.4	67.0	1.4	2.1	29.5
Under 1 year	100.0 100.0 100.0	83.2 57:9 64.3	82.8 57.1 59.7	82.5 54.3 57.8	* 2.7 1.9	* 0.9 4.6	16.8 42.1 35.7
45-64 years	100.0	·69.8	64.6	61.4	3.2	5.1	30.2
45-54 years55-64 years	100.0 100.0	67.5 71.1	62.1	59.9 62.3	2.2 3.7	5.3 5.1	32.5 28.9
65+ years	100.0	·73.6	61.3	53:9	7.4	12.4	. 26.4
65-74 years75-84 years85+ years	100.0 100.0 100.0	74.3 73.9 71.5	67.2 60.9 49.1	62.5 52.5 37.8	4.7 8.4 113	7.1 13.1 22.4	25.7 26.1 28.5
Male		, 4			,		
All ages	100.0	69.6	62.6	58.2	4.4	7.0	30.4
Under 45 years	100.0	64.4	62.2	61.3	1.0	2.2	35.6
Under 1 year	100.0 100.0 100.0	83.8 50.4 53.6	83.2. 50.4 48.7	83.2 49.7 46.7	* 2.0	* 4.9	16.2 49.6 46.4
45-64 years	100.0	65:6	60.4	57.6	2.8	5.2	34,4
45-54 years55-64 years	100 (0: -100 :0	61.4	56.5 62.6	54.7 59.2	11.7 ¹ 3.4	4.9	*38.6 32.0
65+ years	100.0	73.2	63.8	57·.5	6.3	9.4	26.8
65-74 years	100.0 100.0 100.0	72.5 72.9 76.3	66.4 62.4 59.5	62.3 55.3 48.3	4.1 7.1 11.2	6.1 10.5 16.8	27.5 27.1 23.7
<u>Female</u>							
All ages	100.0	75.6	64.0	57.3	·6.7	11.5	24.4
Under 45 years	100.0	79.8	77.8	75.6	2.1	2.0	20.2
Under I year	100.0 100.0 100.0	82.3 71.1 81.5	82.3 68.8 77.3	81.7 62.5 75.6	6.2 1.6	2.4 4.2	17.7 28.9 18.5
45-64 years	100.0	77.3	72.2	68.4	3.8	5.1	22.7
45-54 years	100.0	78.3 76.8	72.3 72.2	69.3. 67.9	3.0 4.3	6.0	21.7 23.2
65+-years	100.0	74.1	58.4	49.8	8.6	15.7	25.9
65-74 years	100.0 100.0 -100.0	77.0 74.9 68.1	68.4 59.3 41.7	62.9 49.6 30.3	5.5 9.7 11.4	8.6 15.7 26.3	23.0 25.1 31.9

Table 9. Number of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, color, sex, and age: United States, 1961

			With	hospital or in	stitutional ca	ıre				
				n short-stay ho			Without			
. Color, sex, and age	All decedents	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	hospital and institutional care			
White, both sexes		Number of decedents in thousands								
All ages	1,499	1,098	958	870	88	140	401			
Under 45 years	207 355 937	150 251 697	146 231 581	142 219 508	4 12 72	20 116	57 103 241			
<u>Male</u>										
All ages	. 855	603	541	501	40	61	253			
Under 45 years	127 234 493	83 155 364	81 142 318	80 135 286	1 7 32	2 13 46	44 79 129			
<u>Female</u>										
All ages	644	495	416	369	47	79	149			
Under 45 years	79 120 444 ;	96	65 89 263	62 84 223	2 5 40	2 7 70	13 24 111			
Nonwhite, both sexes										
All ages	203	131	118	114	5	12	72			
Under 45 years	63 64 ✓ 76	40 41 50	39 39 41	38 38 38	* 1 3	2 2 9	23 23 26			
Male	`									
. All ages	112	71	64	, 62	3	6	42			
Under 45 years	35 '36 41)	20 21 23	20 20 22	* 1 2	1 1 4	14 14 14			
<u>Female</u>										
All ages	91	60	54	52	2	6	31			
Under 45 years45-64 years	27 28		18 18	18 18	* 1	* 1	9			
65+ years	35	22	17	16	1	5	13			

Table 10. Percent distribution of decedents with and without hospitalization experience in the last year of life by kind of facility which provided care according to color, sex, and age: United States, 1961

			With	hospital or in	nstitutional ca	are	
	A11]	in short-stay h	ospitals		Without hospital
Color, sex, and age	decedents	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and institutional care
White, both sexes				Percent dist	tribution	·	
All ages	100.0	73.2	63.9		5.8	9.3	26.8
Under 45 years	100.0	70.5	70.5				
45-64 years	100.0 100.0	72.5	70.5 65.2	68.8 61.9	1.7 3.4	1.9 5.6	27.5
65+ years	100.0	74.3	61.9	54.2	7.7	12.4	29.1 25.7
<u>Male</u>							
All ages	100.0	70.5	63.3	58.6	4.7	7.2	29.5
Under 45 years	100.0	65.5	62.0	62.0			
45-64 years	100.0	66.2	63.8	62.8 57.7	1.0 3.0	1.7 5.5	34.5 33.8
65+ years	100.0	73.8	64.4	57.9	6.5	9.4	26.2
<u>Female</u>							•
All ages;	100.0	76.9	64.7	57.3	7.4	12,2	23.1
Under 45 years	100.0	83.6	81.4	78.5	2.9	,	16.4
45-64 years	100.0	80.0	74.1	69.9	4.2	5.8	16.4 20.0
65+ years	100.0	74.9	59.2	50.2	9.0	15.7	25.1
Nonwhite, both sexes							
All ages	100.0	64.3	58.2	55.9	2.2	6,1	35.7
Under 45 years	100.0	64.0	61.4	60.9	*	2.6	36.0
45-64 years	100.0	63.5	61.1	59.0	2.0	2.5	∵36.5
65+ years	100.0	65.3	53.1	49.2	3.9	12.2	34.7
<u>Male</u>			15.				
All ages	100.0	63.0	57.3	55.0	2.4	5.7	37.0
Under 45 years	100.0	60.4	56.8	56.0	*	3.6	39.6
45-64 years	100.0	61.4	58.5	56.6	1.9	2.8	38.6
65+ years	100.0	66.6	56.7	52.6	4.1	9.9	33.4
<u>Female</u>) 					1	
All ages	100.0	66.0	59.3	57.2	2.1	6.7	34.0
Under 45 years	100.0	68.6	67.3	67.3	*	*	21 /
45-64 years	100.0	66.2	64.2	62.1	2.2	2.0	31.4 33.8
65+ years	100.0	63.8	48.9	45.3	3.6	14.8	36,2

Table 11. Number of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, sex, age, and geographic region: United States, 1961

			With	hospitál or ins	stitutional car	:e	
•			· I	n short-stay/ho	spitals		Without
Sex, age, and region	A11 decedents	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	hospital and institutional care
BOTH SEXES							
All ages			Num	ber of decedent	s in thousands		
All regions	1,702	1,229	1,076	984	92	153	474
Northeast	470	347	300	270	29	47	124
North Central	493	371	.326	298	28,	45	122
South	498	334	299	279	20	35	164
West	241	177	152	1.37	1.5	25	`64
Under 45 years				ĺ '			
All regions	270	190	184	181	-4	6	80
Northeast	58.	43	41	39	2	2	15
North Central	72	5.5	54	54	*	2	17
South	94	6T	59	:59	1	2	32
West	47	31	31	30	.1 ,	1	15
45-64 years				,	·		
All regions	419	292	270	257	. 13	22	127
Northeast	120	89	82	77	5	8	30
North Central	114	83	7.7	74	3	6	31
South	127	83	76	73	4,	6	44
West	58	.37	.35	33	2	^2	21
65+ years	,	. ~:	}	r r		į,	
All regions	1,014	746	621	546	75	:125	267
Northeast	`293	215	177	154	23	38	78
North Central	307	232	195	.170	25	37	74
South	277	190	163	.148	15	27	87
West	:137	109	.86	·75	1.2	23	28
MALE			ĺ 'Ì		,	,	
All ages	¹	. ,		i			
All regions	968	673	606	563	43	68	294
Northeast	260	189	1.67	153	714	22.	71
North Central	-281	200	1180	.170	9	20	[*] 82
South	290	190:	173	¹162	12.	16	100
West	136	9.5	′86	78	8	9	41
Under 45 years			*.		ž		
All regions	163	105,	101	. 100	. 2	'4'	58
Northeast	.36.	725	24.	23	1.	1	11
North Central	44	31	30	30	*.	1	13
South	59	35.	34	34	*.	1	23
West	25	14	14	14	*	*:	411

Table 11. Number of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, sex, age, and geographic region: United States, 1961—Con.

	•		With	hospital or in	nstitutional ca	ire	
		-	3	In short-stay ho	spitals		Without hospital
Sex, age, and region	All decedents	Total	Total	With no care in resident institutions	With some care in resident Institutions	In resident institutions only	and institutional care
MALE-Con.						·	
45-64 years			Nu	mber of deceden	its in thousand	s·	
All regions	270:	177	163	155	8	14	93
Northeast	69.	-48	44	.42	2	4	21
North Central	1	52	44	46	2	4	21 24
South	83	52	48	45	3	4	31
West	41	25	24	22	1	1	16
65+ years	[[_	
				,			
All regions	535	391	341	307	34	50	143
Northeast	1.55	116	99	88	11	17	39
North Central	161	117	102	95.	7	15	44
South	148	102	91	82	9	, F1	46
West	' 70∙	56	48	42	6.	′ 7	14
FEMALE				j		}	
All ages			[1	
		; 					
All regions	735	555	470	421	49	85	179
Northeast	. 210	1.57	133	118	15	25	53
North Central	211	171	146	128	19	25	40
South	208	144	125	. 117	8	19	64
West	106	83	66	59	7	16	23
Under 45 years				,			
All regions	107	85	83	, 81	. 2	2	. 22.
Northeast	22	1.7	17	16	1	*	4
North Central	. 28	24.	24	24	*	1	3
South	35	26	25	- 25	*	. 1	9
West	22	1.7	1.7	16	1	. *	5:
45-64 years	-	,					
All regions	149	115	107	10'2	6	.8	34
Northeast	-51	41	38	35.	3	3	10.
North Central	3.8	32	30	29	1	. 2	7
South	44	31	28	27	1	2	1 3
West	16	12	11)	11	1	*	5
65+ years							
All regions	479	355.	280-	239	41.	75	124
Northeast	138:	99	77	66	11	. 21	39
North Central	145	115	93	75	18	22	30
South	129	88	72	65	7	16	42
West	. 67	54	.38	32	6	16 .	. 13

Table 12. Percent distribution of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, according to sex, age, and geographic region: United States, 1961

			With	hospital or ins	titutional car		,			
·	A11 \		I	In short-stay hospitals			Without hospital			
Sex, age, and region	decedents	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and institutional care			
BOTH SEXES						· · · · · · · · · · · · · · · · · · ·				
All ages		Percent distribution								
All regions	100.0	72.2	63.2	57.8	5.4	9.0	27.8			
Northeast	100.0	73.7	63.7	57.4	6.2	10.1	26,3			
North Central	100.0	75.2	66.2	60.5	5.7	9,1	24.8			
South	100.0	67.1	60.0	56.0	4.0	7.1	32,9			
West	100.0	73.5	63.0	56.8	6.2	10.5	26.5			
Under 45 years										
All regions	100.0	70.5	68.4	67.0	1.4	2.1	29,5			
Northeast	100.0	73.9	71.3	67.6	3,7	2.6	26,1			
North Central	100.0	76.9	74.6	74.6	*	2.2	23,1			
South	100.0	65.3	63.2	62.5	0.7	2.1	34.7			
West	100.0	66.9	65.5	63.2	2.3	1.4	33,1			
45-64 years		,								
All regions	100.0	69.8	64.6	61.4	3.2	5.1	30,2			
Northeast	100.0	74.7	68.3	64.4	3.9	6.4	25,3			
North Central	100.0	73.0	67.7	65.1	2.6	5.2	27.0			
South	100.0	65.1	60.2	57.3	2.9	4.9	34.9			
West	100.0	63.5	60.6	57.1	3.5	3.0	36.5			
65+ years										
All regions	100.0	73.6	61.3	53.9	7.4	12.4	26.4			
Northeast	100.0	73.3	60.3	52.6	7.7	13,0	26.7			
North Central	100.0	75.7	63.6	55.4	8.2	12,1	24,3			
South	100.0	68.6	58.8	53.2	5.6	9.8	31.4			
West	100.0	79.9	63.1	54.5	8.6	16.8	20.1			
MALE										
. All ages										
All regions	100.0	69.6	62.6	58.2	4.4	7.0	30.4			
Northeast	100.0	72.8	64.2	58.6	5.5	8.6	27,2			
North Central	100.0	71.0	63.8	60.5	3.3	7.2	29.0			
South	100.0	65.4	59.8	55.8	. 4.0	5.6	34.6			
West	100.0	69.7	63.1	57.5	5.6	6.6	30.3			
Under 45 years										
All regions	100.0	64.4	62.2	61.3	1.0	2,2	35,6			
Northeast	100.0	70.0	66.5	63.1	3.4	3.5	30.0			
North Central	100.0	69.8	67.5	67.5	*	2.3	30.2			
South	100.0	60.2	58.6	58.1	*	1.6	39.8			
West	100.0	56.6	55.3	55.3	*	*	43.4			

Table 12. Percent distribution of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, according to sex, age, and geographic region: United States, 1961—Con.

			With	hospital or ins	stitutional car	:e/	
			I	n short-stay ho		Without hospital	
Sex, age, and region	AII decedents	A11 decedents Total	Total	With no care in resident institutions	With some care in . resident institutions	In resident institutions only	and institutional care
MALE—Con.							name.
45-64 years				Percent distr	ibution		
All regions	100.0	65.6	60.4	57.6	2.8	5.2	34.4
Northeast	100.0	69.8	63.5	61,1	2.4	6.3	30.2
North Central	100.0	68.1	62.4	59.8	2.6	5.7	31.9
South	100.0	62.4	57.6	54.4	3.2	4.8	37.6
West	100.0	60.5	57.1	53.9	3.2	3.3	39.5
65+ years							
All regions	100.0	73.2	63.8	57.5	6.3	9.4	26.8
Northeast	_ 100.0	74.8	63.9	56.5	7.4	10.9	25.2
North Central	100.0	72.6	63.4	58.9	4.5	9.2	27.4
South	100.0	69.2	61.5	55.7	5.8	7.7	30.8
West	100.0	79.7	69.4	60.4	9.0	10.3	20.3
FEMALE							
All ages							
All regions	100.0	75.6	64.0	57.3	6.7	11.5	24.4
Northeast	100.0	74.9	63.1	55.9	7.2	11.8	25.1
North Central	100.0	80.9	69.3	60.4	8.9	11.6	19.1
South	100.0	69.4	60.3	56.3	3.9	9.1	30.6
West	100.0	78.3	62.8	55.9	6.9	15.6	21.7
Under 45 years						,	
All regions	100.0	79.8	77.8	75.6	2.1	2.0	20.2
Northeast	100.0	80.5	79.4	75.3	4.1	*	19.5
North Gentral	100.0	87.9	85.8	85.8	*	2.1	12.1
South	100.0	73.8	70.9	70.0	*	2.9	26.2
West	100.0	78.3	76.9	72.0	4.8	*	21.7
45-64 years							
All regions	100.0	77.3	72.2	68.4	3.8	5.1	22.7
Northeast	. 100.0	81.2	74.7	68.8	5,8	6.6	18.8
North Central	100.0	82.8	78.4	75.8	2.6	4.4	17.2
South	100.0	70.3	65.2	62.9	- 2.3	5.1	29.7
West	100.0	71.3	69.3	65,1	4.2	*	28.7
65+ years							
All regions	100.0	74.1	58.4	49.8	8.6	15.7	25.9
Northeast	100.0	71.7	56.3	48.2	8.1	15.4	28.3
North Central	100.0	79.1	63.8	51.5	12.2	15.4	20.9
South	100.0	67.9	55.7	50.4	5.3	12,2	32.1
West	100.0	80.0	56.5	48.3	8.2	23.5	20.0

Table 13. Number of decedents with and without hospitalization experience in the last year of life,by kind of facility which provided care, sex, age, and metropolitan status: United States, 1961

	:		With	hospital or ins	tītutional car	e	
			In	short-stay hos	spitals	-	Without
Sex, age, and metropolitan status	All decedents	Total		With no care in resident institutions	With some care in resident institutions	In resident institutions only	hospital and institutional care
BOTH SEXES							
All ages				Number of dece	edents in thous	sands	
Total	1,702	I,229	1,076	984	92	153	474
In metropolitan areas of 1 million or more	597 466 640	443 335 450	385 294 397	353 267 364	32 27 33	58 41 54	153 131 190
<u>Under 45 years</u>							
Total	270	1.90	184	181	4	6	80
In metropolitan areas of 1 million or more	96 . 74 99	73 53 64	71 53 61	69 52 59	2 * 2	2 1 3	23 21 35
45-64 years							
Total	419	292	270	257	13	22	127
In metropolitan areas of 1 million or more————————————————————————————————————	153 121	113 84	104. 75	98 70	5	9	41 38
Outside metropolitan areas	144	96	91	89	2	4	48
65+ years							
Total	1,014	746	621	546	75	125	267
In metropolitan areas of 1 million or more	347 270	258 198	211 166	185 145	25 21	47 32	89 72 106
Outside metropolitan areas	397	291	245	216	29	46	106
MALE							
All ages							
Total	968	673	606	563	43	68	294
In metropolitan areas of 1 million or more	326 269	236 185	214 164	200 151	14 13	22	89 84
Outside metropolitan areas Under 45 years	373	252	228	212	16	24	120
Total	163	105	101	100	2	4	E 0
Total						2	58
In metropolitan areas of 1 million or more	56 45 62	39 29 37	38 29 35	37 29 34	1 * 1	* 2	16 16 26

Table 13. Number of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, sex, age, and metropolitan status: United States, 1961—Con.

	, sex, age, an						
Sex, age, and metropolitan status	All decedents	Total	In short-stay hospitals				Without
			Total	With no care in resident institutions	With some care in resident institutions	Tn' resident institutions only	hospital and institutional care
MALE—Con.							
45-64 years			Numi	ber of decedent	s in thousands	s	
Total	270	177	163	155	8	14	93
In metropolitan areas of 1 million or more	93	64	60	57	3	4	28
1 million	79 98	51 62	45 58	42 56	3 1	6 4	28 37
65+ years							•
Total	535	391	341	307	34	50	143
In metropolitan areas of 1 million or more	178	133	116	106	10	16	45
In metropolitan areas of under 1 million Outside metropolitan areas	145 212	105 154	90 135	80 121	10 14	15 19	·40 58
<u>FEMALE</u>							
All ages							
Total	735	555	470	421	49	85	179
In metropolitan areas of 1 million or more	271	207	171	153	18	36	64
1 million	197 267	150. 198	130 169	116 152	14 17	20 29	47 69
Under 45 years							
Tota1	107	85	83	·81	2	2	* <u>22</u>
In metropolitan areas of 1 million or more	41	.34	.33	33	1	1.	7
1 millionOutside metropolitan areas	29 .37	24 27	24 26	· 24 24	*	1	5 10
45-64 years							
Total	749	115	107	102	. 6	8	34
In metropolitan areas of 1 million or more	61	48	44	. 41	2	5	12
In metropolitan areas of under 1 million Outside metropolitan areas	42 46	33 34	30 34	28 33	2 .1	3 *	³⁹ 12
<u>65+ years</u>			ř		, !	,	÷.
Total	479	355	280	239	41	75	124
In metropolitan areas of 1 million or more	169	125	94	79	15	31	44
In metropolitan areas of under 1 million Outside metropolitan areas	125 184	93 137	76 109	65 94	11 15	17, 28	32 47

Table 14. Percent distribution of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, according to sex, age, and metropolitan status: United States, 1961

-	,	With hospital or institutional care					-
Sex, age, and metropolitan status	A11 decedents	Total	Iı	n short-stay ho		Without hospital	
			. Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and institutional care
BOTH SEXES							
All ages				Percent dist	ibution		
Total	100.0	72.2	63.2	57.8	5.4	9.0	27.8
In metropolitan areas of 1 million or more	100.0	74.3	64.6	59.2	5.4	9.8	25.7
In metropolitan areas of under			63.2	57.4	5.7	8.7	28.1
Outside metropolitan areas	100.0 100.0	71.9 70.4	62.0	56.8	5.2	8.4	29.6
Under 45 years							
Total	100.0	70.5	68.4	67.0	1.4	2.1	29.5
In metropolitan areas of 1 million or more	100.0	75.9	73.6	72.0	1.6	2.3	24.1
In metropolitan areas of under	100.0	71.8	70.9	70.4	*	0.9	28.2
Outside metropolitan areas	100.0	64.2	61.4	59.5	1.9	2.8	35.8
45-64 years							
Total	100.0	69.8	64.6	61.4	3,2	5.1	30.2
In metropolitan areas of 1 million or more	100.0	73.5	67.6	64.2	3.5	5.9	26.5
In metropolitan areas of under	100.0	69.0	62.2	57.6	4.6	6.7	31,0
Outside metropolitan areas	100.0	66.4	63.4	61.8	1.6	3.0	33.6
65+ years							
Total	100.0	73.6	61.3	53.9	7.4	12.4	26.4
. In metropolitan areas of 1 million or more	100.0	74.2	60.7	53.4	7.3	13.5	25.8
In metropolitan areas of under 1 million	100.0	73.2	61.4	53.7	7.7	11.8	26.8
Outside metropolitan areas	100.0	73.4	61.6	54.3	7.3	11.7	26.6
MALE							
All ages							
Total	100.0	69.6	62.6	58.2	4.4	7.0	30.4
In metropolitan areas of 1 million or more	100.0	72.5	65.6	61.3	4.3	6.9	27.5
In metropolitan areas of under 1 million	100.0		60.9	56.1	4.8	7.7	31.3 32.3
Outside metropolitan areas	100.0	67.7	61.1	56.9	4.3	6.6	32.3
Under 45 years							
Total	100.0	64.4	62.2	61.3	1.0	2.2	35.6
In metropolitan areas of 1 million or more	100.0	70.6	67.6	66.0	1.6	3.0	29.4
In metropolitan areas of under 1 million	100.0	l	63.8	63.8	*	*	35.5
Outside metropolitan areas	100.0				1.0	2.5	41.2

Table 14. Percent distribution of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, according to sex, age, and metropolitan status: United States, 1961—Con.

			With				
			1	n short-stay ho	ospitals		Without
Sex, age, and metropolitan status	A11 decedents	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	hospital and institutional care '
MALE—Con.	l						
45-64 years				Percent dist	ribution		
Tota1	100.0	65.6	60.4	57.6	2.8	5,2	34.4
In metropolitan areas of 1 million							
or more	100.0	69.6	64.9	61.7	3.2	4.7	30.4
1 million	100.0 100.0	64.4 62.7	57.3 58.7	53.1 57.3	4.2 1.3	7.1 4.1	35.6 37.3
65+ years							
Total	100.0	73.2	63.8	57.5	6.3	9.4	26.8
In metropolitan areas of 1 million or more	100.0	74.7	65.4	59.7	5.7	0.0	05.0
In metropolitan areas of under	100.0	i	l li			9.3	25.3
Outside metropolitan areas	100.0	72.4 72.6	62.1 63.7	55.4 57.1	6.6 6.6	10.3 8.9	27.6 27.4
FEMALE							
All ages	ľ				ĺ		
Tota1	100.0	75.6	64.0	57.3	6.7	11.5	24.4
In metropolitan areas of 1 million or more	100.0	76.5	63,3	56.6	6.7	10.0	,
In metropolitan areas of under 1 million	100.0	J)	66.2	56.6 59.1	6.7	13.2	23.5
Outside metropolitan areas	100.0	76.3 74.1	63,2	56.7	7.1 6.5	10.1	23.7 25.9
Under 45 years		ì					
Total	100.0	79.8	77.8	75.6	2.1	2.0	20.2
In metropolitan areas of 1 million	100.0						
or more	100.0	83.2	81.8	80.1	1.6	1.4	16.8
1 million Outside metropolitan areas	100.0 100.0	83.1 73.4	82.0 69.9	80.8 66.5	3.4	3.4	16.9 26.6
45-64 years				j			
Total	100.0	77.3	72.2	68.4	3.8	5.1	22.7
In metropolitan areas of 1 million or more	100.0	79.5	71.8	67.0			
In metropolitan areas of under	100.0	JJ	.	67.9	3.9	7.7	20.5
Outside metropolitan areas	100.0	77.6 74.3	71.5 73.5	66.0	5.5	6.1	22.4 25.7
<u>65∔ ÿears</u>							•
Total	100.0	74.1	58.4	49.8	8.6	15.7	25.9
In metropolitan areas of 1 million or more	100.0	73.8	55.8	46.9	8.9	18.0	26.2
In metropolitan areas of under 1 million	160.0	74.2	60.7	51.8	8.9	13.5	. 25.8
Outside metropolitan areas	100.0	74.3	59.3	51.1	8.2	14.9	25.7

Table I5. Number of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, sex, cause of death, and age: United States, 1961

	d care, sex, e	1		ina age. onicea			
		With hospital or institutional care					
	A11		In short-stay hospitals			т.,	Without hospital
Sex, cause of death, and age	decedents	Total.	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and institutional care
Both sexes			Num	ber of decedent	s in thousands	;	
All causes	1,702	1,229	1,076	9841	92	153	474
Diseases of heart	663	406	342	310	32	64	258
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	270	252	236	220	16	15	18
Vascular lesions affecting central nervous system	192	146	118	100	18	28	46
Accidents	95	46	44	41	3	2	49
Certain diseases of early infancy	68	65	65	65	*	*	3
Influenza and pneumonia, except pneumonia of newborn	55	40	29	. 26	3	11	15
General arteriosclerosis	34	26	17	12	5	9	8
Diabetes mellitus	29	23	19	17	2 1	3 *	6
Congenital malformations Cirrhosis of liver	21 20	20 18	19 17	18 15	1	1	2
All other causes	255	187	170	159	10	18	67
		}		,			
<u>Male</u>							
All causes	968	673	606	563	43	68	294
Diseases of heart	391	224	198	186	12	26	167
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	147	140	131	, 123	8	9	7
Vascular lesions affecting central nervous system	90	69	60	51	9	10	21
Accidents	65	25.	24	22	2	1	40
Certain diseases of early infancy	41	39	38	38	*	*	2
Influenza and pneumonia, except pneumonia of newborn	30	22	1.8	16	2	4	8
General arteriosclerosis	17	14	9	7	3	5	3 3
Diabetes mellitus Congenital malformations	100	7	6 11	5 10	1	1 *	1
Cirrhosis of liver	13	12	11	10	1	*	ī
All other causes	153	111	100	94	5	12	41
<u>Female</u>			\				
All causes	735	555	470	421	49	85	179
Diseases of heart	272	181	143	124	20	38	91
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	123	112	105	97	g	7	11
Vascular lesions affecting central nervous system	102	77	59	49	9	18	25
Accidents	30	21	20	20	1	.1	9
Certain diseases of early infancy	27	26	26	26	*	*	1
Influenza and pneumonia, except pneumonia of newborn	25	18	11	10	1	7	7
General arteriosclerosis	18	12	8	5	3	4	5
Diabetes mellitus	19	16	13	12	1	2	3
Congenital malformations Cirrhosis of liver	9 7	*	*	*	*	*	*
All other causes	102		1		l	ì	1
					_	-	

Table 15. Number of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, sex, cause of death, and age: United States, 1961—Con.

With hospital or institutional care							
		 1	-	Without			
Sex, cause of death, and age	All decedents	Total	Total	n short-stay ho With no care in resident institutions	With some care in resident institutions	In resident institutions only	hospital and institutional care
Under 45 years			Num	ber of decedent	s in thousands	3.	
All causes	270	190	184	181	4	6	80
Diseases of heart	23	1.3	12	12	*	1	10
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	26	25	25	24	1	1	1
Vascular lesions affecting central nervous system	6	*	*	*	*	*	. *
Accidents	51	16	15	15	*	. 1	34
Certain diseases of early infancy	68	6.5	65	-65	*	*	3
Influenza and pneumonia, except		,		_			
pneumonia of newborn	14	6	6	5	*	*	8
General arteriosclerosis	2	*	*	*	*	*	*
Diabetes mellitus Congenital malformations	18	17	17	17	1	*	1
Cirrhosis of liver	4	*	*	*	*	, ,	* *
All other causes	58	38	36	35	1	.2	20
45-64 years]			
All causes	419	292	270	257	13	22	127
Diseases of heart	171	92	85	83	2	7	79
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	97	93	87	82	5	6	4
Vascular lesions affecting central nervous system	32	22	21	19	2	ı.	ļ ļ 10
Accidents	22	11	10	1.0	*	*	11
Certain diseases of early infancy	*	*	*	*	*	*	*
Influenza and pneumonia, except pneumonia of newborn	9	*	*	*.	*	*	*
General arteriosclerosis	1	*	*	*	*	*	*
Diabetes mellitus	8	*	*	*	*	*	*
Congenital malformations	1	*		l	*	* .:	*
Cirrhosis of liver	10	10	9	9	*	*	*
All other causes	67	49	45	43	3	3	19
65+ years			404				
All causes	1,014	746	621	546	75	125,	267
Diseases of heart	469	301	245	.21.5	30	56	169
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	147	133	124	114	10	9	14
Vascular lesions affecting central					Ì		
nervous system	1.54	118	92	76	16	26	36
Accidents	23	19	18	16 *	2	10 *	4 *
Influenza and pneumonia, except pneumonia of newborn	31	27	18	16	2	.8.	5
General arteriosclerosis	33	25	16	11	5	9	8
Diabetes mellitus	19	15	13	11	2	2	4
Congenital malformations	1	*	*	*	*.	*	*
Cirrhosis of liver	6	*	*.	*	*	**	*,
All other causes	129	101	88	82	6	13	28

Table 16. Percent distribution of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, according to sex, cause of death, and age: United States, 1961

		With hospital or institutional care						***************************************
Sex, cause of death, and age decedents				In short-stay hospitals				
Diseases of heart	Sex, cause of death, and age		Total	Total	in resident	care in resident	resident institutions	and, institutional
Diseases of heart	Both sexes				Percent dist	ribution		
Malignant neoplasms, including neoplasms, including neoplasms of lymphatic and hematopolatic tissues——————————————————————————————————	All causes	100.0	72.7	63.2	57.8	5.4	9.0	27.8
Vascular Lesions affecting central nervous systems 100.0	Malignant neoplasms, including neoplasms of lymphatic and							38.8
Decidentes 100.0 48.4 46.4 46.8 43.6 2.8 2.0 51.6	Vascular lesions affecting central							•
Certain diseases of early infancy 100.0 95.4 94.8 94.8 * * 4.6	-		1					
December 100.0 77.4 53.2 47.7 5.5 20.2 26.6		1	1 1					4.6
Ceneral arteriosclerosis 100.0 77.0 50.4 34.4 16.0 26.7 23.0		100.0	73.4	53.2	47.7	5.5	20.2	26.6
Diabetes mellitus	- 1		: !!					23.0
Cirrhosis of liver		100.0		66.9				21.6
Male	Congenital malformations	100.0	95.0	93.3	88.4	5.0	*	5.0
Male All causes	Cirrhosis of liver	100.0	88.7	82.2	75.6	6.6	6.5	11.3
All causes	All other causes	100.0	73.6	66.6	62.6	4.0	7.0	26.4
Diseases of heart	Male.							
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	All causes	100.0	69.6	62.6	58.2	4.4	7.0	30.4
New Part New Part	Diseases of heart	100.0	57.4	50.7	47.6	3:1	6.7	42.6
100.0 76.4 65.8 56.0 9.8 10.6 23.6	neoplasms of lymphatic and	100.0	94.9	89.0	83.8	5.2	5.9	5.1
Certain diseases of early infancy		100.0	76.4	65.8	56.0	9.8	10.6	23,6
Influenza and pneumonia, except pneumonia of newborn	Accidents	100.0	38.2	36.2	33.7	2.5	2.0	61.8
Decimonia of newborn	Certain diseases of early infancy	100.0	95.6	94.6	94.6	*	*	4.4
Ceneral arteriosclerosis		100.0	73.7	61.4	54.7	6.7	12.2	26.3
Diabetes mellitus	General arteriosclerosis	100.0	84.1	54.6	39.3	15.4	29.4	15.9
Congenital malformations	·Diabetes mellitus	100.0	69.5	59.8	50.1	9.7		30.5
All causes	Congenital malformations	100.0	93.6	93.6				6.4
Temale	Cirrhosis of liver	100.0	89.9	87.3	77.0	10.2	*	10.1
All causes	All other causes	100.0	72.9	65.2	61.8	3.4	7.7	27,1
Diseases of heart	<u>Female</u>							
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	All causes	100.0	75.6	64.0	57.3	6.7	11.5	24.4
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	Diseases of heart	100 0	66 6	52.6	45 A	7 2	1/, 0	22 /
Vascular lesions affecting central nervous system	Malignant neoplasms, including neoplasms of lymphatic and							
100.0 75.6 57.5 48.5 9.0 18.1 24.4		200.0	71.2	03.0	,,,,	7.2	5.5	0.0
Certain diseases of early infancy 100.0 95.2 95.2 95.2 * * * 4.8	nervous system			11			į.	24.4
Influenza and pneumonia, except pneumonia of newborn		II.	11	11				
General arteriosclerosis	Influenza and pneumonia, except		1					
Diabetes mellitus 100.0 83.0 70.7 65.5 5.2 12.3 17.0 Congenital malformations 100.0 * * * * * * * *			- 11	1	3	. 1		
Congenital malformations 100.0 * * * * * * * *			13	II.	(î	' I	
			, 11	- 11	i		i i	
· · · · · · · · · · · · · · · · · · ·		1		[]				
All other causes 100.0 74.6 68.7 63.8 4.9 5.8 25.4			. 1	li li		1		

Table 16. Percent distribution of decedents with and without hospitalization experience in the last year of life, by kind of facility which provided care, according to sex, cause of death, and age: United States, 1961—Con.

			With	h hospital or i	nstitutional c	are		
			In short-stay hospitals				Without hospital	
Sex, cause of death, and age	All decedents	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and iństitutional care	
Under 45 years				Percent dist	tribution			
All causes	100.0	70.5	68,4	67.0	1.4	2.1	29.5	
Diseases of heart	100.0	55.6	51.5	51.5	*	4.1	44.4	
Malignant neoplasms, including neoplasms of lymphatic and	100.0	97.4	94.9	91.5	3.4	2.5	2.6	
hematopoietic tissues	100.0	٠,٠٠٠	,4.5	71.5	3.4			
nervous system	100.0	*	*	*	*	*	*	
Accidents	100.0	31.7	29.9	29.9	*	1.8	68.3	
Certain diseases of early infancy	100.0	95.4	94.8	94.8	*	*	4.6	
Influenza and pneumonia, except pneumonia of newborn	100.0	42.1	39.8	37.3	*	*	57.9	
General arteriosclerosis	*	*	*	*	*	*	*	
Diabetes mellitus	100.0	. *	*	.*	*	*	*	
Congenital malformations	100.0	94.3	94.3	90.7	3.7	*	5.7	
Cirrhosis of liver	100.0	*	*	' *	*	*	, *	
All other causes	100.0	65.4	62.2	60.0	2.2	3.2	34.6	
45-64 years								
All causes	100.0	69.8	64.6	61.4	3.2	5.1	30.2	
Diseases of heart	100.0	53.9	49.6	48.6	1.0	4.3	46.1	
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	100.0	95.9	90.1	84.6	5.5	5.8	4.1	
Vascular lesions affecting central nervous system	100.0	69.6	65.5	60.4	5.1	4.1	30.4	
Accidents	100.0	50.0	48.4	46.9	*	*	50.0	
Certain diseases of early infancy	*	*	*	*	*	*	*	
Influenza and pneumonia, except pneumonia of newborn	100.0	*	*	*	*	*	*	
General arteriosclerosis	100.0	*.	*	*	*	*	*	
Diabetes mellitus	100.0	*	*	*	*	*	· *	
Congenital malformations	100.0	*	*	. *	*	. *	*	
Cirrhosis of liver	100.0	93.5	90.3	87.2	*	*	*	
All other causes	100.0	71.9	67.0	63.1	3.9	4.9	28.1	
65+ years								
All causes	100.0	73.6	61.3	53.9	7.4	12.4	26.4	
Diseases of heart	100.0	64.1	52.2	45.7	6.5	11.9	35.9	
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	100.0	90.7	84.6	77.7	7.0	6.1	9.3	
Vascular lesions affecting central						16.9	. 23.2	
nervous system	100.0	76.8	59.9 80.7	49.2 70.6	10.7	3.0	16.3	
Accidents	100.0	83.7	*	*	*	*	1	
Certain diseases of early infancy Influenza and pneumonia, except						26.9	15.6	
pneumonia of newborn	100.0	84.4	57.5 48.9	50.2 33.4	7.3 15.5	27.4	23.6	
General arteriosclerosis	100.0	76.4 79.3	67.5	59.2	8.3	11.8	20.7	
Diabetes mellitus Congenital malformations	-100.0	/9.3 *	87.5	39.2	*	*	20.7	
Cirrhosis of liver	100.0	*	*	*	*	*	*	
All other causes	100.0	78.1	68.4	63.5	4.9	9.7	21.9	

APPENDIX I

TECHNICAL NOTE ON METHODS

Statistical Design of the National Mortality Survey

Survey procedures. The procedures for conducting the National Mortality Survey assumed the existence of and took advantage of a national system for the registration of deaths. The death record served as the sampling unit, and samples of these units were selected from the frame of records representing registered deaths. The survey was conducted principally with sources of information identified on the death record and, occasionally, with referral or secondary sources reported by a primary source. Since the mailing addresses of the primary sources were usually reported on the death record or could readily be obtained from directories or from the funeral director, the mail survey was the principal method of data collection. There was provision, however, for collecting information by other means which included telephone reminders and personal interviews.

The survey sample was subselected each month from a 10-percent systematic sample taken monthly from death certificates received in State vital statistics offices from local registrars and forwarded to the Division of Vital Statistics, National Center for Health Statistics. Since the subsampling of deaths was systematic at a rate of 1 out of 33, the monthly sample of deaths cumulated over the year to a selection of 1 out of 330. This procedure produced a sample of 5,154 deaths in 1961 for the survey.

After copies of the selected death certificates were received in the Division of Health Records Statistics, they were grouped according to whether or not the place of death was a hospital or an institution. For any death occurring in a hospital or an institution, a questionnaire was mailed to the establishment to obtain information about periods of care during the last year of life and to inquire about names and addresses of other hospitals and institutions in which care may have been provided. For deaths occurring outside hospitals and institutions, questionnaires were sent to death-record informants (usually relatives of the deceased persons) to ask for names and addresses of hospitals and institutions in which care was received. (Informants in 10 percent of deaths occurring in hospitals and institutions were surveyed for methodological reasons as explained later in this appendix.) The returns from informants were used, then, to initiate mailings to hospitals and institutions.

Followup mailings were routinely sent to persons and establishments not responding, and other mailings were made to obtain complete and consistent information on the forms rejected as inadequate in a concurrent editing procedure. Special efforts were made in each sample case to assure that complete and consistent information was obtained.

Estimating methods.—The statistics shown in this report are estimates prepared by use of a post-stratified ratio estimation procedure. This procedure was used for each of the following 40 groups.

Group

Sex, color, and age

Male, white:

1	Under 1 year
2	1-14 years
3	15-24 years
4	25-34 years
5	35-44 years
6	45-54 years
7	55-64 years
8	65-74 years
9	75-84 years
10	85+ years

Male, nonwhite:

I1 through 20--- Same groups as for male, white

Female, white:

21 through 30--- Same groups as for male, white

Female, monwhite:

31 through 40--- 'Same groups as for male, white

For each of the 40 groups, the national count of deaths was obtained, and the ratio of the sample count of deaths to the complete count was determined. Each death in the group was then assigned a constant value such that the sum of the values equaled the national total for the group. This post-stratified ratio estimation

procedure tends to reduce the sampling error by making the sample more closely representative of the population of all deaths than would be expected by random methods alone.

Rounding of numbers.—The tabulations upon which the tables in this report were based show figures to the nearest unit. The published tables were prepared with corresponding figures rounded to the nearest thousand. Percentages were computed; however, using unrounded data. Neither numbers nor percentages are necessarily accurate in the detail shown.

Reliability of Estimates

Since the estimates were obtained from a sample, they may differ somewhat from the results that would have been obtained had a survey covering all decedents been undertaken using the same questionnaires and procedures. As is true of all surveys, the results are also subject to nonsampling errors such as those of response and recording.

Nonsampling error, general.—Failure to secure complete questionnaire returns in the survey, errors made by respondents in interpreting survey questions, and errors in processing the returned questionnaires and their associated records represent a few of the

main sources of nonsampling error. Although there are many cases in which adequate measures of such errors which may tend to affect the data are not available, in some cases compensating factors play a role in randomizing and thus minimizing the effect of errors on the estimates. In other instances, measures of error are available.

Error associated with nonresponse.—About 2 percent of the forms mailed out to hospitals and institutions in the survey were either not returned or were raturned without information about care of the deceased person in the last year of life. The corresponding nonresponse rate for informants who played a role in providing names of hospitals and institutions caring for persons in the year before death is 7 percent. The effect of nonresponse in this survey was to limit information about hospital and institutional care of deceased persons.

A general review of the file of materials relating to each decedent was made at the close of the survey to determine whether any episodes of hospital or institutional care might have been missing. This review procedure showed that an estimated 55,000 decedents who were reported as having no hospital or institutional care in the last year of life may in fact have received such care (table I). This estimated number of deceased

Table I. Number and percent of decedents classified as having no hospitalization experience in the last year of life who may have been misclassified: United States, 1961

Sex. and age	A11 decedents in	Decedents possibly misclassified as without hospitalization experience in the last year of life		
•	thousands	Number in thousands	Percent	
Both sexes				
All ages	1,702	. 55	3.3	
Under 45 years	270 419 1,014	16 17 22	6.1 4.0 2.2	
<u>Male</u>				
All ages	968	- 32	3.3	
Under 45 years	163 270 535	10 11 ~11	6.3 4.0 2.0	
<u>Female</u>	•			
All ages	735	24	3.2	
Under 45 years	107 149 479	6 6 12	5.7 4.0 2.4	

persons who may have had hospitalization in the last year of life but who were not so classified is comprised of those decedents for whom no satisfactory information was obtained concerning hospitalization because of the inability to locate establishments or informants who could provide information, as well as because of non-response and inadequate response to the survey questionnaires.

Error associated with a problem in identifying places providing care. - The procedures designed to identify all places providing care to the survey decedents were deficient in certain respects, resulting in a minor bias in the distribution of decedents by type of service. Specifically, an assumption was made that it was not necessary to uniformly survey death record informants to gather information about hospital and institutional care of deceased persons when it was established that the decedent had died in a hospital or an institution. However, the informant for 10 percent of all such deaths was surveyed in order to estimate the effect of the procedures based upon this assumption. The results of the test of the assumption are available only in terms of the amount of care and not in terms of number of decedents.

Since the informant was routinely approached where no information about hospital or institutional care for a decedent was shown on the death record, the planned omission of informants in the survey had no effect in determining whether or not the decedent had hospital or institutional care. The only effect this omission had on the statistics in this report was a slight overestimate of the numbers of decedents who had received care only in short-stay hospitals or only in resident institutions, countered by a corresponding underestimate of decedents who had both short-stay and resident care.

Sampling error.—The standarderror is one measure of the variations that occur by chance because only a small portion rather than the whole population of decedents was covered in the survey. The chances are about 68 out of 100 that the sample estimate would differ from the value that would be obtained from a complete survey by less than the standard error.

Rules to determine the approximate standard errors for estimates presented in this report are as follows:

- 1. Estimates of aggregates.—Approximate standarderrors of estimates of numbers of decedents are given in table II.
- Estimates of percentages.—Approximate standard errors for percentages are determined in one of the two following ways, depending upon the source of the base of the percentage:
 - a. Where both numerator and denominator are estimates from the sample data, such as the percentage of males in the Northeast Region who had care in short-stay hospitals, the approximate standard errors are given in table III.
 - b. Where the denominator is a value found in 1 of the 40 ratio estimate cells shown on page 36, that is, where the denominator is a population value taken from the vital registration system and is therefore not subject to sampling error, the relative standard error of the percent is equivalent to the relative standard error of the numerator. The relative standard error of an estimate is obtained by dividing the standard error of the estimate by the estimate itself and is expressed as a percentage of the estimate. For example, table 10 shows that 57.2 percent of all nonwhite female decedents had care in short-stay hospitals only. The base of this percentage is the group of nonwhite females and is found to be one of the cells in the ratio estimation table shown on page 36. Therefore, the standard error of the numerator of the percentage 52,000 is determined from table II, by interpolation, to be 3,858. Dividing this figure by the numerator, the quotient is 0.074 (relative standard error = 7.4 percent) which when multiplied by the estimate itself, 57.2, yields 4.2 as the standard error. Thus, the chances are 68 out of 100 that a complete survey would produce a figure between 53.0 percent and 61.4 percent and 95 out of 100 that this figure would lie between 48.8 percent and 65.6 percent.

Table II. Approximate standard errors for estimated numbers of decedents

	
. Estimate	Standard error
10,000	1,700 2,700 3,800 5,250 7,850 9,950 10,600 10,100

Example: In table 9, 60,000 nonwhite female decedents are estimated as having had hospital care in the last year of life. Using linear interpolation in table II, we obtain a standard error of 4,100. The chances are about 68 out of 100 that a complete survey would produce a figure differing from the sample result by less than 4,100; and the chances are about 95 out of 100 that the difference would be less than twice the standard error, or 8,200.

Table III. Approximate standard errors of estimated percentages of decedents

Estimated	Base of percentage (1,000)							
percent	10	50	100	250	500	1,000		
2 or 98 5 or 95 10 or 90 25 or 75	2.4 3.7 5.1 7.4 8.6	1.1 1.7 2.3 3.3 3.8	.8 1.2 1.6 2.3 2.7	0.5 0.7 1.0 1.5	0.3 0.5 0.7 1.0 1.2	0.2		

Example: Table 12 shows that 62.4 percent of the male decedents aged 45-64 years residing in the South had care in hospitals and institutions in the last year of life. The standard error of this percentage with a base of 83,000 is, by interpolation, about 2.9 percent. Therefore, the chances are about 68 out of 100 that a complete survey would produce a figure between 59.5 and 65.3 percent and 95 out of 100 that this figure would lie between 56.6 percent and 68.2 percent.

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APPENDIX II

DÉFINITIONS OF CERTAIN TERMS USED IN THIS REPORT

Terms Relating to Hospitalization

Hospitals and institutions.—In this report hospitals and institutions is a phrase used to refer to facilities providing medical or personal care, such as hospitals listed in the Guide Issue of Hospitals, Journal of the American Hospital Association, and includes homes for the mentally retarded, nursing homes, other homes for the aged, and other places providing medical, nursing, personal, or domiciliary care. Questionnaires returned by establishments claiming to have provided care to decedents as inpatients or inmates were accepted as reports of hospitals and institutions regardless of whether the establishments could be located in the several listings of such places which were used in connection with the processing of the survey data.

Short-stay hospital.—A short-stay hospital is a facility for which the type of service—a classification of hospitals according to the predominant types of cases for which they provide care—is general; maternity; eye, ear, nose, and throat; children's; and osteopathic hospital. The type-of-service category to which an individual hospital is assigned and the definition of these categories follows the usage of the American Hospital Association.

Resident institution.—A resident institution is a facility for which the type of service is psychiatric, tuberculosis, orthopedic, contagious disease, chronic disease and/or convalescent, and hospital department of institution. Also included are homes for the mentally retarded, nursing or convalescent homes, other homes for the aged, and other places which provide medical, nursing, personal, or domiciliary care.

Hospitalization and hospitalization experience.— Hospitalization and hospitalization experience are terms used in this report to refer to care provided to deceased persons in the last year of life by hospitals or institutions. Such care was determined to have been provided if any continuous period of inpatient care or inmate experience was completed in a hospital or an institution within 364 days preceding death as well as on the day of death itself. Any such period of care may

or may not have begun within the 12-month period preceding death.

Place of death. - The place of death is the classification of decedents as to whether the death certificate or other information collected in the survey indicates that the death took place in a hospital or institution and if so, the kind of facility. Data for "deaths occurring in hospitals or institutions" shown in table A and selected from Vital Statistics of the United States, 1958, may differ somewhat from comparable data gathered in the National Mortality Survey for three reasons. First, in the survey it is possible to identify some places of death as hospitals and institutions by querying informants, where this would not be possible by reference to the death certificate alone. Second, deaths in hospitals and institutions as defined in Vital Statistics of the United States include deaths classified as "died on entry" or "died on arrival," while the National Mortality Survey data exclude deaths among persons who were not "admitted" on hospital records. Third, some deaths recorded as having occurred in hospitals or institutions on the death record were found in the survey to have occurred before, or on arrival, or otherwise before admission of the decedent.

Other Terms

Cause of death.—Data are shown in this report for the 10 leading causes of death in 1961. These are the 10 most frequent causes as a result of ranking the causes included in the List of 59 Selected Causes of Death (Seventh Revision of International Lists of Diseases and Causes of Death, 1955) in accordance with the rules of ranking recommended by the Public Health Conference on Records and Statistics.

Death record informant.—The informant is usually the person whose name is recorded on the death certificate as having provided the information about personal characteristics of the decedent such as name and age which are shown on the death certificate. The informant is commonly a close relative of the decedent.

Age.—Age is recorded or derived from entries on the death certificate for age or date of birth. Reported or calculated age is age at last birthday.

Color.—Color is recorded or derived from entries on the death certificate for color or race as white or nonwhite. The nonwhite population includes Negro, American Indian, Chinese, Japanese, Aleut, Eskimo, Hawaiian and part-Hawaiian. Mexican and Puerto Rican are included with white.⁸

Metropolitan status.—Usual residence of decedent was classified by location inside or outside counties falling in standard metropolitan statistical areas (metropolitan State economic areas in New England) as delineated by the Office of Statistical Standards, U.S. Bureau of the Budget for the 1960 Census. (See pages XXVII and XXVIII of U.S. Census of Population: 1960.) Standard metropolitan statistical areas were divided into two groups for use in the tables shown in this report—those with a population in the 1960 census of 1,000,000 or more and those with less than 1,000,000.

Region.—State of usual residence of decedents is classified according to four regions which correspond to the regions used by the U.S. Bureau of the Census. These are comprised as follows:

Region	States Included
Northeast	Connecticut, Maine, Massa-
	chusetts, New Hampshire,
	New Jersey, New York,
	Pennsylvania, Rhode Island,
1	Vermont
North Central	Illinois, Indiana, Iowa, Kansas,
	Michigan, Minnesota, Missouri,
	Nebraska, North Dakota, Ohio,
	South Dakota, Wisconsin
South	Alabama, Arkansas, Delaware,
	District of Columbia, Florida,
	Georgia, Kentucky, Louisiana,
	Maryland, Mississippi, North
	Carolina, Oklahoma, South
	Carolina, Tennessee, Texas,
	Virginia, West Virginia
West	Alaska, Arizona, California,
	Colorado, Hawaii, Idaho,

Wyoming

Montana, Nevada, New Mexico, Oregon, Utah, Washington,

APPENDIX III

SOURCE FORMS

11	IRTH NO.	STATE OF			E FILE No.	Form approved, Budget Bureau No. 68-R2
	PLACE OF DEATH a. COUNTY			2. USUAL RESIDEN a. STATE	CE (Where decoased lived. If instit b. COUNT	ution: Residence before admissio Y
	b. CITY, TOWN, OR I	LOCATION	c. LENGTH OF STAY IN	16 c. CITY, TOWN, OR	LOCATION	
	d. NAME OF (HOSPITAL OR INSTITUTION	If not in hospital, give st	reel address)	d. STREET ADDRES	5S	
F		TH INSIDE CITY LIMITS?			NSIDE CITY LIMITS?	J. IS RESIDENCE ON A FA
F	YES NO				ю <u>П</u>	YES NO
1	NAME OF DECEASED (Type or print)	First	Middle	Last	OF DEATH	Month Day Yea
5.	SEX	6 COLOR OR RACE	7 MARRIED NEVER MARRIED	8. DATE OF BIRTH	9. AGE (In years last birthday)	IF UNDER 1 YEAR IF UNDER 24
			WIDOWED DIVORCED		(ast mithady)	Montha Days Hours
	2. USUAL OCCUPATION during most of wor	(Give kind of work done king life, even if retired)	105. KIND OF BUSINESS OR INDUST	RY 11 BIRTHPLACE (Stat	e or foreign country)	12. CITIZEN OF WHAT COUNTR
13.	FATHER'S NAME			14. MOTHER'S MAIDE	N NAME	<u> </u>
۶L	WAS DECEASED EVE	R IN U. S. ARMED FORCE	S? 16. SOCIAL SECURITY	IO 17 INCOMESSES	Add	
	es, no, or unknown) (If yes, give war or dates of s	resice)	O. IV. INFORMANT	Au	i cas
AND WELFARE PUBLIC	Conditions, in which gave a cause stating the r	rise to (0) = (0)				
5 5	lying cause PART II. OTHE		CONTRIBUTING TO DEATH BUT NOT REL	ATED TO THE TERMINAL DISEA	SE CONDITION GIVEN IN PART I(a)	19. WAS AUTOPS PERFORMED
딁잂						YES NO
	20a. ACCIDENT	SUICIDE HOMICIDE	206. DESCRIBE HOW INJURY OCCI	IRRED. (Enter nature of	injury in Part I or Part II of	ilem 18.)
MEDICAL CE	20c. TIME OF Ho	m,				
MED	20d. INJURY OCCUR WHILE AT . NO WORK . AT	TRED 20e. PLAC	E OF INJURY (e. g., in or about hor, factory, street, office bldg., etc.)	ne, 20f. CITY, TOWN, O	R LOCATION C	COUNTY ST
		he deceased from	, to		and last saw her ali	ve оп
į	Death occur	red at	m on the d	ate stated above; and	to the best of my knowle	dge, from the causes at
1	22a. SIGNATURE		(Degree or title)	22b. ADDRESS		22c, DATE SIG
.		236 DATE	23c. NAME OF CEMETERY O	R CREMATORY	23d. LOCATION (City, town. o	r county) (State)
23.	a. Burial, Cremation, Removal (Specify)	J	1			***

·PHS-3699 (3-61)

CONFIDENTIALITY has been assured the individual as published in the federal Register May 20, 1959

Budget Bureau No. 68-6102 Approval Expires: 12-31-62 DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service - NOVS Washington 25, D.C. HOSPITAL UTILIZATION IN THE LAST YEAR OF LIFE Name of Deceased. _ File Number_ Address of Deceased. Date of Birth Date of Death Hospital in which Deceased was a Patient. Approximate Date of Last Discharge. PART I - HOSPITAL CARE IN THIS INSTITUTION A. How many times was the person whose name appears above discharged from this hospital since JANUARY 1, 1960? number of separate discharges since JANUARY 1, 1960 (Please complete a section below for each of these times beginning with the deceased's last stay in this hospital. If there were more than four separate discharges since JANUARY 1, 1960, please attach separate sheet.) PERIODS ADMITTED DISCHARGED OPERATIONS FINAL DIAGNOSES OF CARE ON PERFORMED Primary LAST Month_ Month. PERIOD Dav_ Day. Secondary_ Year. Year. Check if none Primary NEXT Month Month TO LAST PERIOD Day_ Secondary Year. Check if none Primary PERIOD Month BEFORE THAT Day_ Day. Secondary Year. Year Check if none Primary PERTOD Month Month BEFORE THAT Secondary_ Year_ Year

FRONT

Check if none

	PART EI - CARE IN OTHER HOSPITALS						
	Α.	According to your records or to your personal knowledge, was the deceased a patient in any other hospital or medical institution since JANUARY 1, 1960?					
		1. Yes 2. No					
		(If Yes: please list below each hospital and medi since JANUARY 1, 1960)	cal institution in which the deceased was a patient				
-		OTHER INSTITUTIONS IN WHICH DECE	ased was a pattent				
:	1.	Name of Institution					
		Street Address	City or Place.				
		County					
		Approximate Discharge Date					
	2.	Name of Institution					
		Street Address	City or Place				
		County	State				
		Approximate Discharge Date					
	3.	Name of Institution					
		Street Address	City or Place				
		County	-				
		Approximate Discharge Date					
).						
	+•	Name of Institution					
		ቕ	City or Place				
		•	State				
		Approximate Discharge Date	* * *				
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8	3ie	gnature of person completing this form					
1	Tar	me of this institution					
3	(Ot	ur position in this institution					
	РН (3	S-3699 -61)back	GPG 907781				
		BACK	•				

Survey: Questionnaire for Informants

PHS-3700. (3-61)

CONFIDENTIALITY has been assured the individual as published in the Federal Register-May 20, 1959

Budget Bureau No. 68-6102 Approval Expires: 12-31-62

	DEPARTMENT OF MEALTH, E Putilic-Health S Washington :	ervice - NOVS
	HOSPITAL UTILIZATION«IN	,
	Name of Deceased	
	Please answer the following questions about the person name best estimates. Feel free to ask the assistance of others	d above. If you do not know the exact answers, give your who may be able to help you in answering the questions.
	PART I - HOS	PITAL CARE
	A. Since JANUARY 1, 1960, was the deceased a patient in a h	ospital or medical institution?
	1. Yes 2. No (If No; SKIP to Part II on	the reverse sidé)
	B. How many times was he discharged from these hospitals si	• •
		or each of these discharges beginning with last hospital achospital; this discharge should be entered as his last
	1. LAST HOS	PITAL STAY
	A. When was he discharged from the Hospital?	B. What is the name and address of the hospital?
	DayMonthYear	Name
	C. How many nights was he in the hospital?	City or Place
	number of nights	CountyState
	2. NEXT TO LAST	HOSPITAL STAY
	A. When was he discharged from the hospital?	B. What is the name and address of the hospital?
	DayMonthYear	Name
	C. How many nights was he in the hospital?	City or Place
	number of nights	CountyState
	3. Hospital stat	Y BEFORE THAT
	A: When was he discharged from the hospital?	B. What is the name and address of the hospital?
	DayMonthYear	Name
	C. How many nights: was he in the hospital?	City or Place
	number of nights	CountyState
	4. Hospital state	Y HEFORE THAT
	A. When was he discharged from the hospital?	B. What is the name and address of the hospital?
	Day,MonthYear	Neme
	C: How many nights was herin the hospital?	City or Place
	number-of-nights	CountyState
		IM.
	FRON	T
_		

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	PART II - CHARACTERISTICS OF THE DECEASED PERSON	
A. Where did the decease		
1. At home		
2. In a hosp	pital' Name	
	City or Place	
	County State	
3. Other ple	sce (specify	
B. During 1960, what was from all sources such 1. Under \$2, 2. \$2,000 -		
If the deceased was u	under 16 years of age, SKIP to Part III below.	
. What was he doing mos	st of the 12 months before death?	
1. Working	, 3. Something else (specify)	
2. Retired		
	grade the deceased attended in school? (Circle the highest grade)	
None 1	2 3 4 5 6 7 8 1 2 3 4 1 2 3 4 5+ Elementary High School College	
	PART III - INFORMATION ABOUT THE PERSON COMPLETING THIS FORM	
Name Street Address	City	
County	State	
1. Do you know of someone else who might be able to add to the information that you supplied? 1. Yes 2. No If Yes: What is the name and address of this person?		
1. Yes	2. No What is the name and address of this person?	
l.∭ Yes If Yes: \	2. No What is the name and address of this person?	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person?	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? . Name	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? . Name	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? NameAddress	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? Name Address * * * * * * *	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? Name Address * * * * * * *	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? Name Address * * * * * * *	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? Name Address * * * * * * *	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? Name Address * * * * * * *	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? Name Address * * * * * * * ** ** ** ** ** *	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? Name Address * * * * * * * ** ** ** ** ** *	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? Name Address * * * * * * * ** ** ** ** ** *	
l.∭ Yes If Yes: 1	2. No What is the name and address of this person? Name Address * * * * * * * ** ** ** ** ** *	

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