

Hospitalization in the Last Year of Life

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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 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 dying 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 zero	-
	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

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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. In the percent of the percent of

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 Sur.vey 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	beeritel or beeritel or		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	
WhiteNonwhite	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	55 34	66.7 69.6	73.4 77.0	
Diabetes mellitus Congenital malformations Cirrhosis of liver	29 21 20	71.7 90.3	78.4 95.0	
All other causes	255 255	87.0 63.7	88.7 73.6	

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

Of the 1,702,000 persons who died in the United States in 1961,72 percent had at least some care inchospitals 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

		Place of death					
Hospitalization experience	A11	In a h	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	57.8	77.6	97.7	•••	27.0		
resident institutions	5.4	8.6	2.3	32.8	0.5		
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).

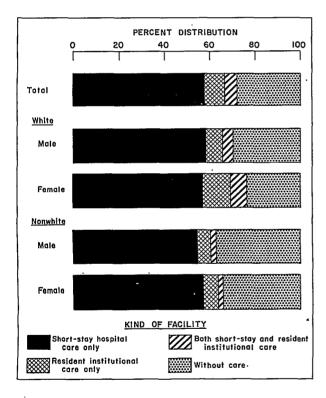


Figure 1. Percent distribution of decedents with and without hospitalization experience in the last year of life, by color, sex, and kind of facility which provided care.

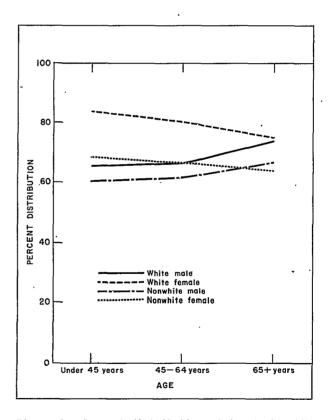


Figure 2. Percent distribution of decedents with hospitalization experience in the last year of life, by sex, color, and age.

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		Percent
Region			In short- In short-stay the last		without hospitalization experience in the last year	
	Number in thousands	Percent	stay hospitals only	insti- tutions only	hospitals and resident institutions	of life
		ļ.	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 65 years and over 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

the second secon									
í	Al1 dec		Perc						
Sex and region	65 y and			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	01 1110		
<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	dents		Percent with experienc year		Percent without	
Selected causes of death and age			Total	In short- stay	In resident insti-	In both short-stay hospitals	hospitalization experience in the last year of life
	Number in thousands	Percent	Total	hospitals only	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 years45-64 years65+ 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 years 45-64 years 65+ 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.

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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.

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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	Outside			
·		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 years65+ years	419 1,014	235 633	206 453	29 179	184 381		
Region		033	433	1,7	301		
Northeast	470	293	226	67	178		
North Central	493	320	258	63	172		
South	498	270	222	48	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 neoplasms of lymphatic and	663	326	240	86	337		
hematopoietic tissuesVascular lesions affecting	270	197	169	28	73		
central nervous systemAccidents	192 95	130 39	89 37	41 2	63 56		
Certain diseases of early infancy Influenza and pneumonia, except	68	65	65	*	3		
pneumonia of newborn	55 34	37 24	24 9	13 15	18 10		
Diabetes mellitus	29 21	21 19	16 17	5 1	8 2		
Cirrhosis of liverAll other causes	20	18	16	2	3		
ATT 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	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		
	100.0	05.5	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	67.5	46.1	21.4	32.5		
Accidents	100.0 100.0	40.9 95.4	38.8 94.8	2.1	59.1 4.6		
Influenza and pneumonia, except pneumonia of newborn	100.0	66.7	43.6	23.2	33.3		
General arteriosclerosis	100.0 100.0	69.6 71.7	26.9 55.7	42.7 15.9	30.4 28.3		
Congenital malformations	100.0 100.0	90.3 87.0	83.7 77.1	6.6 9.9	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

						·	
	Persons who	Deat	h occurring in hospitals	short-stay	Death	occurring in institution	resident
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	ısands		
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	930	731	713	18	198	132	67
Nonwhite	107	91	91	1	15	12	4
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							
149701							
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
			ļ		i		
Cause of death							
			-				
Diseases of heart	326	240	234	6	86	62	25
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic risesses	10-						
hematopoietic tissues	197	169	167	2	28	14	14
Accidents	130 39 65	89 37	85 35	3 2	41	27 1	14 1
Influenza and pneumonia, except pneumonia of newborn	l l	65	65	*	*	*	*
General arteriosclerosis	37 24 21	24 9	23 9	1 *	13 15	11 9	2 5
Congenital malformations	19	16 17	15 17	1 *	5 1	3	2 5 1 1 1 6
All other causes	18 162	16 141	15 138	1 4	21 21	15 15	1 6
				4			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

the fast year of the	Persons who		h occurring in hospitals	short-stay		occurring in	resident
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	1		
Total	100.0	79.4	77.6	1.8	20.6	13.9	6.8
							-
<u>Sex</u>		1					ì
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
Color							
White	100.0	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
<u>Age</u>						,	
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	80.7	1.5	17.8	12.1	5.7
West	100.0	76.5	74.8	1.7	23.5	15.8	7.7
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 Malignant neoplasms, including neoplasms of lymphatic and	100.0	73.5	' 71.7	1.8	26.5	18.9	7.6
hematopoietic tissues	100.0	85.8	84.8	1.0	14.2	6.9	7.3
central nervous system	100.0 100.0 100.0	68.3 94.8 99.4	65.8 90.6 99.4	2.5 4.2 *	31.7 5.2 *	20.8 2.6 *	10.9 2.6 *
pneumonia of newborn	100.0 100.0 100.0 100.0 100.0 100.0	65.3 38.7 77.7 92.7 88.6 87.2	62.5 38.7 74.6 92.7 85.0 84.9	2.7 * 3.1 * 3.6 2.3	34,7 61.3 22.3 7.3 11.4 12.8	30.2 38.3 16.0 * 7.5 9.3	4.5 23.0 6.3 5.5 3.9 3.5
WIT OFFICE CONDECTATIONS AND ADDRESS OF THE PROPERTY OF THE PR	100.0	07.2	04.9	۷,۵	12.0	7.3	3.3

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

Characteristic outside hospitals In	Without ospital and' titutional care
Number of persons in thousands Sex Male	and' titutional care
Sex	474
Sex 407 113 107 105 2 7 Female	474
Male	
Female 258 79 77 75 2 2	
	294
Color	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	164
West 87 23 22 * 1	64
Metropolitan status	•
metropotitan status	
Metropolitan 398 114 110 107 2 5	284
Nonmetropolitan 267 78 74 73 1 4	190
Cause of death	
Diseases of heart	258
hematopoietic tissues 73 54 53 * 2 Vascular lesions affecting * 2	18
Central nervous system	46 49 *
pneumonia of newborn	15 8
Diabetes mellitus	* *
Cirrhosis of liver	6 7

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

	7		With	hospital or it	nstitutional ca	are	
	Persons who died		Ir	short-stay ho	spitals	· ·	Without hospital
Characteristic	outside 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		0.7	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
<u>Age</u>			}				
	100.0						
Under 45 years	100.0	20.7	18.3 29.9	17.3 29.3	0.5	2.4	79.3 68.9
65+ years	100.0	29.9	28.8	.28.5	0.3	1.0	70.1
Region	(1			
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					·		
Diseases of heart	100.0	23.6	22.9	22.5	. 0.4	0.8	76.4
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	100.0	74.8	72.5	72.5	*	2.3	25.2
Accidents	100.0 100.0 100.0	26.0 12.6 *	24.5 11.1	23.5 11.1 *	1.1 * *	1.5 1.6 *	74.0 87.4 *
Influenza and pneumonia, except pneumonia of newborn	100.0 100.0 100.0	20.0 24.5 *	20.0 24.5 *	18.0 24.5	* *	* *	80.0 75.5 *'
Congenital malformations Cirrhosis of liver All other causes	100.0 100.0 100.0	* 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	
				in short-stay ho	ospitals		Without hospital
Sex and age	All. decedents	Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	and institutional care
Both sexes			Nun	ber of decedent	s in thousands	} .	· · · · · ·
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 years55-64 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
Female			ŧ	3	,	i	
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	115	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 in	nstitutional ca	are	
	A11		I	n short-stay h	ospitals		Without hospital
Sex and age	decedents	decedents Total	Total,	With no care in resident institutions	With some care in resident institutions	In resident institutions only	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	83.2 57.9	82.8 57.1	82.5 54.3	*	*	16.8
25-44 years	100.0	64.3	59.7	57.8	2.7 1.9	0.9 4.6	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 66.0	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 years	100.0	74.3	67.2	62.5	4.7	7.1	25.7
85+ years	100.0 100.0	73.9 71.5	60 .9- 49 .1	52.5 37.8	8.4 113	13.1 22.4	26.1 28.5
Male							
	٠,	l			;		
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	61.4	56.5 62.6	54.7° 59.2	11.7 3.4	4.9	*38.6 32.0
65+ years	100.0	73.2	63.8	575	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	82.3 71.1	82.3 68.8	81.7 62.5	* 6.2	*	17.7 28.9
25-44 years	100.0	71.1 81.5	773	75.6.	1.6	2.4	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 4.6	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	re	
			I	n short-stay ho	spitals		Without hospital
. Color, sex, and age	All 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			Num	ber of decedent	s in thousands	;	
All ages	1,499	1,098	958	870	88	140	401
Under 45 years	207 355	150 251	146 231	142 219	4 12	4 20	57 103
65+ years	937	697	581	508	72	116	241
<u>Male</u>							
All ages	. 855	603	541	501	40	61	253
Under 45 years	127 234	83 155	81 142	80 135	1 7	2 13	44
65+ years	493	364	318	286	32	46	129
<u>Female</u>							
All ages	644	495	416	369	47	79	149
Ünder 45 years	79 [°]	66 96	65 89	62 84	2 5	2 7	13 24
45-04 years	444 ;		263	223	40	70	111
Nonwhite, both sexes							
All ages	203	131	118	114	5	12	72
Under 45 years	63 64	40 41	39 39	38 38	* 1	2 2	23 23
65+ years	→ 76	50	41	38	3	9	26
Male							
All ages	112	71	64	, 62	3	6	42
Under 45 years	35 /36	21 22	20 21	20 20	*	1 1	14 14
65+ years	41	27	23	22	2	4	14
<u>Female</u>							
All ages	91	60	54	52	2	6	31
Under 45 years	27 28	19 19	18 18	18 18	*	*	9
65+ years	35		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	ire	
	477]	in short-stay h	ospitals	<u> </u>	Without hospital and institutional care
Color, sex, and age	All decedents	edents Total	Total	With no care in resident institutions	With some care in resident institutions	In resident institutions only	
White, both sexes				Percent dist	ribution		
All ages	100.0	73.2	63.9	58.1	5.8	9.3	26.8
Under 45 years	100.0	72 5	70 5	50.0			
45-64 years	100.0	72.5	70.5 65.2	68.8 61.9	1.7 3.4	1.9 5.6	27.5 29.1
65+ years	100.0	74.3	61.9	54.2	7.7	12.4	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	63.8	60.0			
45-64 years	100.0	66.2	60.7	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	,	36.6
45-64 years	100.0	80.0	74.1	69.9	4.2	2.3 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>			11				
A11 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>							
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	*	*	31,4
45-64 years	100.0	66.2	64.2	62.1	2.2	2.0	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

			.Wi.th	hospitáľ or in	stitutional car	:e	
			· I	n short-stay/ho	ospitals		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
BOTH SEXES							
All ages			Num	ber of decedent	ts 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	3.71	.326	298	28.	45	122
South	498	334	299	279	20	35	164
West	241	177	152	1.37	15	25	`64
Under 45 years				·			
All regions	270	190	184	181	-4	6	80
Northeast	5.8.	43	41	39	2	2	15
North Central	72	5.5	54	54	- *	2	17
South	94	61	59	:59	1	2	32
West	47	31	31	30	.i.	1	1.5
45~64 years					ļ.,		
All regions	419	292	270	257	13	22	127
Northeast	120	89	82	77	5	8	30
North Gentral	114	83	77	74	3	6	31
South	127	83	76	73	4.	6	44
West	58	.37	-35	33	2	^2	21
65+ years	,	. ~	.	,		i	
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	1.5	27	87
West	:137	109	.86	·75	1.2	23	28
MALE			,		,	,	
All-ages	•			1			
All regions	968	673	606	563	'43	68	294
Northeast	260	189	167	153	14	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	,		,		7		
All regions	163	105,	101	, 100	. 2	·4 ⁻	58
Northeast	.36.	"25	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	*	*:	41

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	
		_]	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	institutional care
MALE-Gon.	-					<u> </u>	
45-64 years			Nia	mber of deceden	rts in thousand	e.	
All regions	270:	177		155	8	14	93
-				 			
Northeast	69.	-48	44	.42	2	4	21
North Gentral	1 76 83	52° 52	48 48	46 45	2	4.	24 31
West	41	25	24	22	1	1	16
	41	23	: 24	22	_	<u> </u>	10
65+ years	!			,			
All regions	535	391	3.41	307	34	50	143
Northeast	1.55	116	99	88	111	17	39
North Central	161	117	102	95.	7	15	44
South	148	102	91	82	9	11	46
West	70.	56	48	42	6.	7	14
FEMALE	ļ						
All ages		<u> </u>]				
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	6.4
West	106	83	66	59	7	16	23
Under 45 years	1						
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	17	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	. 38.	32	30	29	ı.	2	7
South	44	31	28	27	1	2	13
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	1.6	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:	n short-stay ho	spitals	•	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 dist	ribution		
All regions	100.0	72.2	63.2	57.8	5.4	9.0	127.8
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	3.7 *	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
<u>Under 45 years</u>				ļ			
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	titutional car	:e _/	
			I	n short-stay ho	spitals	!	Without hospital
Sex, age, and region	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.							
45-64 years	4			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. <i>†</i>	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			:			٠	
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 Central	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 29.7
South	100.0	70.3 71.3	65.2 69.3	62.9 65.1	4.2	5.1	28.7
	100.0	71.5	05.3		7,2		20.,
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 Gentral	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 hospital
Sex, age, and metropolitan status	All 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				Number of dece	edents in thous	sands	
Total	1,702	I,229	1,076	984	92	1.53	474
In metropolitan areas of 1 million or more	597	443	385	353	32	58	153
millionOutside metropolitan areas	466 640	.335 450	294 397	267 364	27 33	41 54	131 190
Under 45 years							
Total	270	1.90	184	181	4	6	80
The metropolitan areas of 1 million or more	96 . 74	73 53	71 53	69 52	2	2	23
Outside metropolitan areas	99	64	61	59	2	3	21 35
<u>45-64 years</u>							
Total	419	292	270	257	13	22	127
In metropolitan areas of 1 million or more	153	113	104	98	5	9	41
millionOutside metropolitan areas	121 144	84 96	75 91	70 89	6 2	8 4	38 48
65+ years							
Total	1,014	746	621	546	75	125	267
In metropolitan areas of 1 million or more	347	258	211	185	25	47	89
In metropolitan areas of under 1 millionOutside metropolitan areas	270 397		166 245	145 216	21 29	32 46	72 106
MALE							
All: ages							
Total	968	673	606	563	43	68	294
In metropolitan areas of 1 million or more	326	236	214	200	14	22	89
million	269 373	185 252	164 228	151 212	13 16	21 24	84 120
Under 45 years							
Total	163	105	101	100	2	~	58
In metropolitan areas of 1 million or more	56-	39	38	37	1	2	16
millionOutside metropolitan areas	45 62	29 37	29 35	29 34	* 1	* 2	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		In short-stay hospitals				Without
		Total	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	į	
Total	270	1 177 [163 (155	8	14	93
In metropolitan areas of 1 million or more	93	64	60	57	3	4	28
In metropolitan areas of under 1 million Outside metropolitan areas	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 l million	145	105	90	80	10	15	.40
Outside metropolitan areas	212	154	135	121	14	19	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
In metropolitan areas of under 1 million Outside metropolitan areas	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
In metropolitan areas of under 1 million Outside metropolitan areas	29 .37	24 27	24 26	· 24 24	* 1	1	5 10
45-64 years							
Total	149	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	42	33	30	28	2	3	·9
Outside metropolitan areas	46	34	34	33	-l	*	12
65+ years					,	,	÷.
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 ! million Outside metropolitan areas	125 184	93 137	76 109	65 94	11 15	17, 28	32 47
ogentue metrobottean areas	104	137	107)4		20	, 17

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

. Facility which provided	care, accordin	g to sex	, age, a	id metropolitan	status. Onite	u States, 1901	•
	All decedents						
Sex, age, and metropolitan status		Total	I	n short-stay ho	spitals	In resident institutions only	Without hospital
			. Total	With no care in resident institutions	With some care in resident institutions		and institutional care
BOTH SEXES							
All ages				Percent distr	cibution		
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
1 millionOutside metropolitan areas	100.0 100.0	71.9 70.4	63.2 62.0	57.4 56.8	5.7 5.2	8.7 8.4	28.1 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 l million	100.0		70.9	70.4	*	0.9	28.2 35.8
Outside metropolitan areas	100.0		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 1 million Outside metropolitan areas	100.0 100.0		62.2 63.4	57.6 61.8	4.6 1.6	6.7 3.0	31.0 33.6
-	100.0	00.4	03.4	0210	2.0		
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 Outside metropolitan areas	100.0 100.0	73.2 73.4	61.4 61.6	53.7 54.3	7.7 7.3	11.8 11.7	26.8 26.6
outside metroportium dread	255.0	,					
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 56.9	4.8 4.3	7.7 6.6	31.3 32.3
Outside metropolitan areas Under 45 years	100.0	67.7	61.1	30.9	4.3		3273
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		3.0	29,4
1 millionOutside metropolitan areas	100.0	64.5 58.8	63.8 56.3	63.8 55.3			35.5 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 hospital or institutional care					
			In short-stay hospitals				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.	1							
45-64 years				Percent dist	ribution			
Total	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	2.0	, ,	20.1	
In metropolitan areas of under	100.0		l		3.2	4.7	30.4	
Outside metropolitan areas	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	9.3	25.3	
In metropolitan areas of under	100.0	72.4	62,1	55.4	6.6	,		
Outside metropolitan areas	100.0	72.6	63.7	57.1	6.6	10.3 8.9	27.6 27.4	
FEMALE						•		
All age's	1	ĺ			ĺ			
Total	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	13.2	. 23.5	
In metropolitan areas of under 1 millionOutside metropolitan areas	100.0 100.0	76.3 74.1	66.2 63,2	59.1 56.7	7.1 6.5	10.1 10.9	23.7 25.9	
Under 45 years								
Total	100.0	79.8	77.8	75.6	2.1	2.0	20.2	
In metropolitan areas of 1 million	100.0	83.2	81.8	90.1	, (
In metropolitan areas of under	j]	J)	j	80.1	1.6	1.4	16.8	
Outside metropolitan areas	100.0	83.1 73.4	82.0 69.9	80.8 66.5	3.4	3.4	16.9 26.6	
<u>45-64 years</u>								
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	67.9	3.9	7.7		
In metropolitan areas of under	100.0	77.6	.	1	ļ		20.5	
Outside metropolitan areas	100.0	74.3	71.5	66.0	5.5	6.1	22.4 25.7	
<u>65∔ ỳears</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

No. No.								
Declaration December Decemb								
1,702	Sex, cause of death, and age		Total.		With no care	With some care in resident	resident Institutions	and institutional
All causes	Both sexes			Num	ber of decedent	s in thousands	\$	
Malignant neoplasms including neoplasms of lymphatic and hematopoietic tissues		1,702	1,229					474
Malignant neoplasms including neoplasms of lymphatic and hematopoietic tissues	-							
New	Diseases of heart	663	406	342	310	32	64	258
Name 192 146 118 100 18 28 46 Accidents 95 46 44 41 3 2 49 49 49 49 49 49 49	neoplasms of lymphatic and	270	252	236	220	16	15	18
Accidents 95	Vascular lesions affecting central	100	146	110	100	10	20	4.6
Certain diseases of early infancy 68			; I	9	Į l			i e
Influence and pneumonia, except 55 40 29 26 3 11 15		_	1		ŀ			E .
December of newborn								
Diabetes mellitus	pneumonia of newborn			1				
Congenital malformations	3			1 1	ł		1	
Cirrhosis of liver	•		- 1			1	i	
All causes	~		1	1 1			ì	
Male 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 hematopoictic 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 preumonia of hemborn 30 22 18 16 2 4 8 General arteriosclerosis 17 14 9 7 3 5 3 3 13 1 1 1 3 3 1 4 8 8 9 1 1 4 8 6 6 5 1 1 1 1 1 3 1 1			i I	1 1				
All causes	are outer courses							
Diseases of heart	<u>Male</u>	:						
Mailgnant neoplasms, including neoplasms of lymphatic and hematopoletic tissues——————————————————————————————————	All causes	968	673	606	563	43	68	294
New Property New	Diseases of heart	391	224	198	186	12	26	167
Vascular lesions affecting central nervous system	neoplasms of lymphatic and	147	140	131	, 123	8	9	7
Accidents————————————————————————————————————	-	_						
Certain diseases of early infancy	*		11		i			
Influenza and pneumonia, except pneumonia of newborn			II - 1	1 1	l .		l .	
Seneral arteriosclerosis	Influenza and pneumonia, except							į
Diabetes mellitus	-		lf I	}		1	1	1
Cirrhosis of liver			Iŧ I	6	ŀ	1	1	3
All other causes	Congenital malformations	- 11	11	11	10	′ *	*	1
Female	Cirrhosis of liver	13	1.2			1	1	1
All causes	All other causes	153	111	100	94	5	12	41
Diseases of heart	<u>Female</u>			\				
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	All causes	735	555	470	421	49	85	179
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	Diseases of heart	272	181	143	124	20	38	91
Vascular lesions affecting central nervous system	Malignant neoplasms, including neoplasms of lymphatic and			•			ļ	
Accidents	Vascular lesions affecting central							
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	· ·		H					
pneumoniz 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			11 1	1 1	1		*	1
Diabetes mellitus 19 16 13 12 1 2 3		25	18	11	10	ř	7	ſ
			II	1	1	j	1	
. أ. أن أن الد			11		1			i .
Congenital malformations	•	- 1	<u> </u>	l i				
Cirrhosis of liver	-			1	i e		i	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						
			I	n short-stay ho		Without hospital		
Sex, cause of death, 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	
Under 45 years		,	Num	ber of decedent	s in thousands	·		
All causes	270	190	184 (181.	41	61	80	
Diseases of heart	23	1.3	1.2	12	ste .	1.	10	
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	26	25	25	24	1	1	1.	
Vascular lesions affecting central	20		-3.		1		. *	
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	*	*	*	*	*	*	*	
Diabetes mellitus	2	*		*	*	* *	*	
Congenital malformations	18 4	17	17 *	17 *] 1 *	· *	1	
All other causes	58	38	36	35	1	.2	20	
	,	30	30			_		
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							l	
nervous system	32	22	21	19	2	I'	10	
Accidents	22	11	10	10	* *	*	11	
Certain diseases of early infancy	*	*	*	. *	*	*	70	
Influenza and pneumonia, except pneumonia of newborn General arteriosclerosis	9	*	*	*	*	*	*	
Diabetes mellitus	8	*	*	*	*	*	*	
Congenital malformations	1	*	*	*	*	*	*	
Cirrhosis of liver	10	10	9	9	*	*	*	
All other causes	67	49	45	43	3	3	19	
65+ years								
All causes	1,014	746	621	546	75	125	267	
	469	301	245	.21.5	30	56	169	
Diseases of heart	409	201	445	.213	30	36	109	
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	147	133	124	114	10	9	14	
Vascular lesions affecting central								
nervous system	154	118	92	76	16	26 10	36	
Accidents	23	19	18 *	16 *	.*	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							
	417		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, institutional care		
Both sexes				Percent dist	ribution				
All causes	100.0	72.7	63.2	57.8	5.4	9.0	27.8		
									
Diseases of heart	100.0	61.2	51.5	46.7	4.8	9.7	38.8		
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	100.0	93.2	87.6	81.5	6.1	5.6	,6.8		
Vascular lesions affecting central									
nervous system	100.0	76.0	61.4	52.0	9.4	14.5	24.0		
Accidents	100.0	48.4 95.4	46.4 94.8	43.6 94.8	2.8	2.0	51.6 4.6		
Influenza and pneumonia, except	100.0	75.4	74.0	74.0		"	440		
pneumonia of newborn	100.0	73.4	53.2	47.7	5.5	20.2	26.6		
General arteriosclerosis	100.0	77.0	50.4	34.4	16.0	26.7	23.0		
Diabetes mellitus	100.0	78.4	66.9	60.2	6.7	11.4	21.6		
Congenital malformations	100.0	95.0	93.3	88.4	5.0	*	5.0		
Cirrhosis of liverAll other causes	100.0 100.0	88.7 73.6	82.2 66.6	75.6 62.6	6.6 4.0	6.5 7.0	11.3 26.4		
All Other Causes	100.0	/3.0	00.0	62.6	4.0	7.0	20,4		
Male.									
All causes	100.0	69.6	62.6	58.2	4.4	7.0	30.4		
Diseases of heart	100.0	57.4	50.7	47.6	3:1	6.7	42.6		
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	100.0	94.9	89.0	83.8	. 5.2	5.9	5.1		
Vascular lesions affecting central									
nervous system	100.0	76.4	65.8	56.0	9.8	10.6	23.6		
Accidents	100.0 100.0	38.2 95.6	36.2 94.6	33.7 94.6	2.5	2.0	61.8 4.4		
Influenza and pneumonia, except		75.0	34.0	34.0	-		4,4		
pneumonia of newborn	100.0	73.7	61.4	54.7	6.7	12.2	26.3		
General arteriosclerosis	100.0	84.1	54.6	39.3	15.4	29.4	15.9		
· Diabetes mellitus	100.0	69.5	59.8	50.1	9.7	9.7	30.5		
Congenital malformations	100.0	93.6	93.6	90.5	*	*	6.4		
Cirrhosis of liver	100.0	89.9	87.3	77.0	10.2	*	10.1		
All other causes	100.0	72.9	. 65.2	61.8	3.4	7.7	27.1		
<u>Female</u>									
All causes	100.0	75.6	64.0	57.3	6.7	11.5	24.4		
Diseases of heart	100.0	66.6	52.6	45.4	7.2	14.0	33.4		
Malignant neoplasms, including neoplasms of lymphatic and									
hematopoietic tissues Vascular lesions affecting central	100.0	91.2	85.8	78.7	7.2	5.3	8.8		
nervous system	100.0	75.6	57.5	48.5	9.0	18.1	24.4		
Accidents	100.0	70.2	68.3	65.0	3.3	2.0	29.8		
Certain diseases of early infancy Influenza and pneumonia, except	100.0	95.2	95.2	95.2	*	*	4.8		
pneumonia of newborn	100.0	73.1	43.5	39.5	4.0	29.5	26.9		
General arteriosclerosis	100.0	70.3	46.3	29.7	16.6	24.0	29.7		
Diabetes mellitus Congenital malformations	100.0	83.0	70.7	65.5	5.2	12.3	17.0		
Cirrhosis of liver	100.0 100.0	*	*	*	*	*	*		
*****	100.0	74.6	68.7	63.8	4.9	5.8	25.4		

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.

Diseases of heart		1		Wit				
No. Percent distribution Percent distri	:	477		In short-stay hospitals				Without hospital
All causes of heart	Sex, cause of death, and age		Total	Total	in resident	care in resident	resident institutions	iństitutional
Diseases of heart	Under 45 years				Percent dist	ribution		
Mailgname neoplasms including 100.0 97.4 94.9 91.5 3.4 2.5		100.0	70.5	68,4	67.0	1.4	2.1	29.5
Mailgname neoplasms including 100.0 97.4 94.9 91.5 3.4 2.5								
100.0 97.4 94.9 91.5 3.4 2.5		100.0	55.6	51.5	51.5	*	4.1	44.4
100.0 31.7 29.9 29.9 3 1.8	neoplasms of lymphatic and	100.0	97.4	94.9	/ 91.5	3.4	2.5	2.6
Accidents————————————————————————————————————		100.0						*
Certain diseases of early infancy- 100.0 9.4 94.8			1			I	1	68.3
Influence and paramonic, except 100.0 42.1 39.8 37.3 * * * * * * * * * * * * * * * * * *		Į.	l t	l I		į		4.6
Description Display	•	Į						
Diabetes mellitus	pneumonia of newborn	li li		I I		1]	57.9
100.0 94.3 94.3 90.7 3.7 ×		ľ				1	İ	,
100.0						l	1	5.7
All other causes	-			! I		1		, *
### All causes		i i		l l		1		34.6
All causes		100.0	03.4	02.2	00.0			
Diseases of heart————————————————————————————————————	45-64 years							
Malignant neoplasms, including neoplasms of lymphatic and hematopoletic tissues	All causes	100.0	69.8	64.6	61.4			30.2
Reoplasms of lymphatic and hematopoletic tissues	Diseases of heart	100.0	53.9	49.6	48.6	1.0	4.3	46.1
100.0	neoplasms of lymphatic and	100.0	95.9	90.1	84.6	5.5	5.8	4.1
Accidents	Vascular lesions affecting central	100.0	69.6	65.5	60.4	5.1	4.1	30.4
Influenza and pneumonia, except pneumonia of newborn	· · · · · · · · · · · · · · · · · · ·			48.4	46.9	*	*	50.0
100.0	Certain diseases of early infancy	*	*	*	*	*	*	,
Diabetes mellitus	Influenza and pneumonia, except pneumonia of newborn		*	*	*	*	*	,
Congenital malformations	General arteriosclerosis	100.0	*.	*	*	*	*	*
Congenital malformations Congenital malforma	Diabetes mellitus	100.0	*	*	*	*	*	. ,
All other causes	Congenital malformations	100.0	*	*	. *	*	. *	;
All causes			1 1	1 1			1	
All causes	All other causes	100.0	71.9	67.0	63.1	3.9	4.9	28.
Diseases of heart	65+ years							
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	All causes	100.0	73.6	61.3	53.9	7.4	12.4	26.4
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	Diseases of heart	100.0	64.1	52.2	45.7	6.5	11.9	35.9
Vascular lesions affecting central nervous system	Malignant neoplasms, including neoplasms of lymphatic and							9.:
Accidents	Vascular lesions affecting central							
Certain diseases of early infancy				l I	i	1	l .	23.
Total transfer of the property of the proper		{	1	1 1			1	16.5
General arteriosclerosis	Influenza and pneumonia, except							1
Diabetes mellitus	•		li I	1 1	1			15. 23.
Congenital malformations		h .						20.
Congenital mariormations————————————————————————————————————]		1 1			1	20.
Cirrhosis of liver 100.0 * * * * * * *	_			1		1		
All other causes			i		ŧ	l.	1	21.

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
4 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, nonwhite:

.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	All 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>FemaTe</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:

- 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	Ва	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	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 immates 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, schronic 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:

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

Wyoming

States Included

Region

-000-

APPENDIX III

SOURCE FORMS

_	BIRTH NO.	STATE OF		STATE FI		Form approved, Budget Bureau No. 68-R3
1.	PLACE OF DEATH a. COUNTY	1		2. USUAL RESIDENCE G. STATE	(Where decoased lived. If institute b. COUNT)	ution: Residence before <mark>admissi</mark> c Y
Γ	b. CITY, TOWN, OR	LOCATION	c. LENGTH OF STAY IN 16	c. CITY, TOWN, OR LOC	CATION	
r	d. NAME OF HOSPITAL OR INSTITUTION	(If not in hospital, give st	reel address)	d. STREET ADDRESS		
r	_	TH INSIDE CITY LIMITS?		e. IS RESIDENCE INSID		J. IS RESIDENCE ON A FA
F		<u> </u>		YES NO		YES NO
ı	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 hirthday)	IF UNDER 1 YEAR IF UNDER 24
L			WIDOWED DIVORCED			
1	a. USUAL OCCUPATIO during most of wo	N (Give kind of work done orking life, even if retired)	105, KIND OF BUSINESS OR INDUSTRY	11 BIRTHPLACE (State or	foreign country)	12. CITIZEN OF WHAT COUNTR
13.	FATHER'S NAME			14. MOTHER'S MAIDEN N	AME	
(Y		ER IN U.S. ARMED FORCE (If yes, give war or dates of se		17. INFORMANT	Add	ireas
Γ	18. CAUSE OF DE PART I. DEA	:ATH [Enler only one cau :TH WAS CAUSED BY: !MMEDIATE CAUSE (a) _	• • • • • • • • • • • • • • • • • • • •			INTERVAL BETW ONSET AND DE
	Conditions, which gave above caus stating the	if any. is to be considered by: IMMEDIATE CAUSE (a) _ if any. rise to be considered by: rise (a), runder-	• • • • • • • • • • • • • • • • • • • •			
8	Conditions, which gave above caus stating the lying caus	if any. if any. rise to to (a) under e last. DUE TO (b) _ under e last.		D TO THE TERMINAL DISEASE C	CONDITION GIVEN IN PART I(a)	ONSET AND DEA
8	Conditions, which gase above caus stating the lying caus PART II. OTH	ITH WAS CAUSED BY: IMMEDIATE CAUSE (a) _ If any, rise to se (a), under- e last. DUE TO (c) _ EER SIGNIFICANT CONDITIONS	CONTRIBUTING TO DEATH BUT NOT RELATE			19. WAS AUTOPS PERFORMED YES NO
CERTIFICATION	Conditions, which gave above caus stating the lying caus. PART II. OTH	ITH WAS CAUSED BY: IMMEDIATE CAUSE (a) _ If any. rise to se (a), ten control of the control				19. WAS AUTOPS PERFORMED YES NO
NCAL CERTIFICATION	Conditions, which gave above caus stating the lying caus. PART II. OTH 20a. ACCIDENT 20c. TIME OF HI.	TH WAS CAUSED BY: IMMEDIATE CAUSE (a) If any, rise to, rise to, rise (b), se (a), under- c lost. DUE TO (c) DUE TO (c) ER SIGNIFICANT CONDITIONS SUICIDE HOMICIDE	CONTRIBUTING TO DEATH BUT NOT RELATE			19. WAS AUTOPS PERFORMED YES NO
MEDICAL CERTIFICATION	Conditions, which gave above caus stating the lying caus. PART II. OT: 20a. ACCIDENT Conditions Condit	if any. rise to, see (a), der Significant Conditions SUICIDE HOMICIDE Our Month, Day, Year m. m.	CONTRIBUTING TO DEATH BUT NOT RELATE	ED. (Enter nature of inj	ury in Part I or Part II of i	19. WAS AUTOPS PERFORMED YES NO
MEDICAL CERTIFICATION	Conditions, which gave above caus stating the lying caus. PART II. OTH 20a. ACCIDENT 20c. TIME OF H. INJURY a. P.	if any. rise to, see (a), der Significant Conditions SUICIDE HOMICIDE Our Month, Day, Year m. m.	CONTRIBUTING TO DEATH BUT NOT RELATE 208. DESCRIBE HOW INJURY OCCURF E OF INJURY (e. g., in or about home, , factory, street, office bldg., etc.)	ED. (Enter nature of inju	ury in Part I or Part II of i CATION C and last saw her ali	19. WAS AUTOPS PERFORMED YES NO COUNTY ST
MEDICAL CERTIFICATION	Conditions, which gave above caus stating the lying caus PART II. OTH 20a. ACCIDENT 20c. TIME OF HINJURY a. P. 20d. INJURY OCCUI WHILE AT N. A. 21. I attended to Death occur.	ITH WAS CAUSED BY: IMMEDIATE CAUSE (a) if any, rise to,	CONTRIBUTING TO DEATH BUT NOT RELATE 208. DESCRIBE HOW INJURY OCCURF E OF INJURY (e. g., in or about home, , factory, street, office bldg., etc.)	ED. (Enter nature of injudent	ury in Part I or Part II of i	I9. WAS AUTOPS PERFORMED YES NO COUNTY ST
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MEDICAL CERTIFICATION	Conditions, which gave above caus stating the lying caus PART II. OTH 20a. ACCIDENT 20c. TIME OF HINJURY a. P. 20d. INJURY OCCUI WHILE AT N. A. 21. I attended to Death occur.	ITH WAS CAUSED BY: IMMEDIATE CAUSE (a) If any. Its to the control of the contr	CONTRIBUTING TO DEATH BUT NOT RELATE 200. DESCRIBE HOW INJURY OCCURF E OF INJURY (e. g., in or about home, , factory, street, office bidg., etc.) , to no on the date	20f. CITY, TOWN, OR LO	ury in Part I or Part II of i CATION C and last saw her ali	I9. WAS AUTOPS PERFORMED YES NO COUNTY ST
MEDICAL CERTIFICATION	Conditions, which gase above cause stating the lying cause PART II. OTH 20a. ACCIDENT 20c. TIME OF H. INJURY a. p. 20d. INJURY OCCUL WHILE AT N WORK A 21. I attended to Death occul 22a. SIGNATURE	if any. if any. if any. if any. ise to ise t	CONTRIBUTING TO DEATH BUT NOT RELATE 20b. DESCRIBE HOW INJURY OCCURF E OF INJURY (e. g., in or about home, , factory, street, office bldg., etc.) to	20f. CITY, TOWN, OR LO	DCATION Commonwealth of the best of my knowledges	II9. WAS AUTOPS PERFORMED YES NO COUNTY ST

·PHS-3699 (3-61)

THAT

Year_

Year

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 JANUAKY 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. Dav. 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

Secondary_

FRONT Check if none

B

PART EI - C	ARE IN OTHER HOSPITALS
medical institution since JANUARY 1, 1960?	wledge, was the deceased a patient in any other hospital or
1. Yes 2. No	
(If Yes: please list below each hospi since JANUARY 1, 1960)	tal and medical institution in which the deceased was a patient
OTHER INSTITUTIONS I	N WHICH DECEASED WAS A PATTENT
1. Name of Institution	
Street Address	City or Place
	State
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	State
Approximate Discharge Date	
4. Name of Institution	
Street Address	City or Place
County	State
Approximate Discharge Date	
* * *	* * * * *
Remarks:	- 10-manuscriptors
· · · · · · · · · · · · · · · · · · ·	
Signature of person completing this form	
Name of this institution	
Your position in this institution	

PHS-3699 (3-61)back	BACK .
	DENOTE

Survey: Questionnaire for Informants

PHS-3700 (3-61)

CONFIDENTIALITY has been assured the individual as published in the Federal Register-May 204 1939

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

Putilic-Heal	H, EDUCATION, AND WELFARE th Service – MOVS ton 25, D.C.
HOSPITAL UTILIZATION	IN THE LAST YEAR OF LIFE
Name of Deceased.	File Number
Please answer the following questions about the person best estimates. Feel free to ask the assistance of oth	named above. If you do not know the exact answers, give your ers who may be able to help you in answering the questions.
PART I -	HOSPITAL CARE
A. Since JANUARY 1, 1960, was the decessed a patient in	a hospital or medical institution?
1. Yes 2. No (If No, SKIP to Part I	I on the reverse side)
B. How many times was he discharged from these hospital	· ·
	ow for each of these discharges beginning with last hospital d.in a:hospital; this discharge should be entered as his last
l. IAST	HOSPITAL STAY
A. When was he discharged from the Rospital?	B. What is the name and address of the hospital?
DayYear	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 be 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	STAY BEFORE THAT
A: When was-he'discharged from the hospital?	B. What is the name and address of the hospital?
Day	Neme
C. How many nights: was he in the hospital?	City or Place
number of nights	CountyState
4. HOSPIPEAL	STAY HEFORE 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 herin the hospital?	City or Place
number of mights	CountyState
	county
н	ront

A. Where did the deceased person dief 1. At home 2. In a hospital Name— City or Place— County————————————————————————————————————		
At home City or Flace		PART II - CHARACTERISTICS OF THE DECEASED PERSON
City or Place County Signature B. During 1960, what was the total income of the deceased and those of his family living with him (Include income from all courses such as wages, salaries, rents from property, pensions, help from relatives, etc.) 1. Under \$2,000 2. \$\frac{1}{2}\$	_	i person die?
City or Place County		Ital * Name
County		
3. Other place (specify		•
B. During 1960, what was the total income of the deceased and those of his family living with him? (Include income from all sources such as wages, salaries, rents from property, pensions, help from relatives, etc.) 1	3 Char plac	
C. What was he doing most of the 12 months before death? 1. Working , 3. Something else (specify	B. During 1960, what was from all sources such 1. Under \$2,0	the total income of the deceased and those of his family living with him? (Include income as wages, salaries, rents from property, pensions, help from relatives, etc.) 3. \$\preceq\$\psi_4,000 - \psi_6,999\$
1. Working , 3. Something else (specify	If the deceased was un	der 16 years of age, SKIP to Part III below.
None 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 High School College FART III - INFORMATION ABOUT THE PERSON COMPLETING THIS FORM A. Enter below the name and address of the person actually completing this form, even if different from the person to whom the form was mailed. Name	1. Working	
Flementary High School College PART III - INFORMATION ABOUT THE PERSON COMPLETING THIS FORM A. Enter below the name and address of the person actually completing this form, even if different from the person to whom the form was mailed. Name Street Address County State 3. Do you know of someone clase 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? Name Address * * * * * * * * Jise the space below to provide any additional information about the deceased person's hospital care.		
PART III - INFORMATION ABOUT THE PERSON COMPLETING THIS FORM A. Enter below the name and address of the person actually completing this form, even if different from the person to whom the form was mailed. Name Street Address County State 3. 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? Name Address * * * * * * * * Jise the space below to provide any additional information about the deceased person's hospital care.	None 1 2	
A. Enter below the name and address of the person actually completing this form, even if different from the person to whom the form was mailed. Name		
CountyState_ 3. 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? Name	Name	
3. 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? Name Address * * * * * * * Use the space below to provide any additional information about the deceased person's hospital care. PRS-2700 (3-5) None *** * * * * * * * * * * * * * * * * *		•
Address * * * * * * * See the space below to provide any additional information about the deceased person's hospital care.	B. Do you know of someone 1. Yes If Yes: W	else who might be able to add to the information that you supplied? 2. No hat is the name and address of this person?
* * * * * * * * Jise the space below to provide any additional information about the deceased person's hospital care. PHS-3700 (3.65) here.	-	
Jse the space below to provide any additional information about the deceased person's hospital care.	A	ddress
PHS-3700 (3-61) heck	Use the space below to pr	" " " " " " " " " " " " " " " " " " "
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