HEALTH STATISTICS

FROM THE U. S. NATIONAL HEALTH SURVEY

HOSPITALIZATION

patients discharged from short-stay hospitals

United States July 1957 - June 1958

Statistics for short-stay hospitals on patients discharged and days of hospitalization, by selected characteristics of the patients, and types of hospitals. Based on data collected in household interviews during July 1957-June 1958.

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The U. S. National Health Survey is a continuing program under which the Public Health Service makes studies to determine the extent of illness and disability in the population of the United States and to gather related information. It is authorized by Public Law 652, 84th Congress.

CO-OPERATION OF THE BUREAU OF THE CENSUS

Under the legislation establishing the National Health Survey, the Public Health Service is authorized to use, insofar as possible, the services or facilities of other Federal, State, or private agencies. For the national household survey the Bureau of the Census designed and selected the sample, conducted the household interviews, and processed the data in accordance with specifications established by the Public Health Service.

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HOSPITALIZATION IN SHORT-STAY HOSPITALS

INTRODUCTION

During the interview year, July 1957-June 1958, the questionnaire used in the Health Household Interview for the U. S. National Health Survey contained a series of questions designed to obtain information on all periods of hospitalization experienced by members of the sample households during the year prior to the interview. Characteristics of the hospitalization, such as the month of admission, number of days in the hospital, diagnosis, and operations performed were secured for each period of hospitalization. The volume of data that is available on hospitalization from the results of this interviewing is too large to be covered in a single report. Therefore, the

present report is limited to statistics on completed episodes of hospitalization, i.e., hospital discharges. It is further limited to discharges from certain types of hospitals, those in which most patients stay for less than 30 days. In this report these hospitals are referred to as short-stay hospitals.

Table I. shows the number of discharges for patients in short-stay hospitals as contrasted with all other hospitals. It can be seen from this table that a very high proportion of all discharges are from short-stay hospitals.

The characteristics of the hospitalizations and the persons hospitalized, which are presented in this first report, have been selected from a larger list available on the questionnaire as those believed to be of the greatest general interest.

Table I. Number of patients discharged from long- and short-stay hospitals, by type of hospital and age: United States, July 1957-June 1958

Type of hospital	All ages	Under 15	15-24	25-44	45-64	65+			
	Number of discharges in thousands								
All hospitals	17,376	2,874	3,023	6,099	3,563	1,818			
Long-stay hospitals Psychiatric Tuberculosis All other	417 237 104 76	46 13 12 21	60 29 23 8	156 104 34 18	110 74 20 16	45 17 15 13			
Short-stay hospitals	16,738	2,801	2,901	5,868	3,413	1,754			
Unknown type	221	27	61	75	40	18			
		i			I	1			

This report was prepared by Augustine Gentile, of the U. S. National Health Survey staff.

SOURCES AND LIMITATIONS OF THE DATA

The detailed tables in this report contain estimates of the number of discharges and the number of days of hospital stay for persons discharged from short-stay hospitals in the United States.

The data are derived from household interviews obtained in a continuous probability sample of the civilian noninstitutional population of the United States during the period from July 1957 through June 1958. Interviews were conducted in approximately 36,000 households comprising 115,000 persons.

Each week, during the 52-week period, interviews were conducted in a new sample of households. The hospitalization experience of household members for the 12 months prior to the week of interview was obtained. Consolidation of the 52 samples provides an estimate of one year's experience for all persons in the population. The specific year differs chronologically for persons interviewed in different weeks. Thus the estimates are based on hospital discharges that actually occurred sometime between July 1956 and June 1958. The computational procedure used is such that the published estimates represent the average experience for all 12-month periods ending during the year, July 1957-June 1958.

Additional information about the manner of making these estimates, a description of the statistical design of the household survey, and general qualifications of the data presented in this report are given in Appendix I. Special attention is called to the section entitled Reliability of estimates in this Appendix. The data in all of the cells in the tables that follow are subject to errors of sampling, i.e., errors resulting from the use of a sample of households instead of all of the households in the United States. In cells where the estimated number or the numerator or denominator of a rate or percentage is small, the relative error due to sampling may be high. Therefore, such estimates

of numbers, rates, or percentages must be interpreted with caution.

Explanations and definitions of terms and concepts used in this report are presented in Appendix II. Most of the terms have specialized technical meanings for the purposes of this survey, and familiarity with these definitions is necessary for the interpretation of the findings presented.

It is necessary also to emphasize that there are some factors in the survey method which tend to result in an underestimate of the volume of hospital discharges during the period covered. Since the survey data refer only to persons who were alive at the time of interview, the hospital experience of persons who died in the year prior to the interview period is not counted. For the older age groups and certain disease groups the understatement due to this factor is likely to be quite high. Another factor that undoubtedly reduces the volume of discharges in comparison with hospital records is that the survey excludes an unknown number of inpatients who were not hospitalized overnight. This omission probably has a negligible effect upon the estimates of hospital days since each instance contributes only one day to the sample total. Furthermore, although direct transfers from one hospital to another are usually recorded as a discharge and an admission by hospitals, survey respondents may regard such a continuous period of hospitalization as a single episode and, therefore, erroneously report the event as having occurred in a single hospital. The effect of this particular error on the statistics is not known but is believed to be small.

The data in this report are based on responses to questions in the sections of the household-interview questionnaire that follow.

The two following hospitalization-recall questions are designed to elicit from the respondent information as to whether or not members of the household have been in any type of institution that might be considered to be a hospital according to the survey definition. They serve as a stepping-off point for further questions aimed at describing the circumstances of hospital episodes.

Hospitalization-Recall Questions

25. (a) DURING THE PAST 12 MONTHS has anyone in the family been a patient in a hospital overnight or longer?	☐ Yes (Table II) ☐ No
If "Yes": (b) Bow many times were you in the hospital?	No. of times
26. (a) During the past 12 months has anyone in the family been a patient in a nursin home or sanitarium?	Yes (Table II) No
If "Yes" (b) How many times were you in a nursing home or sanitarium?	No. of times

For each episode of hospitalization that is reported in response to the hospitalization-recall

questions an entry! is made in each of the columns of Table II, which is shown below.

Table II - Hospitalization During Past Twelve Months

Col.	Ques-	When did you enter the hos- pital?	not counting	How many of thesedays	How many of thesedays	Was this person still in the hospital last	That was the matter? Anything else? (Record each condition in same detail as called
No. of per- son	tion No.	(Month, Year)	the day you left?	past 12 months?		Sunday night?	for in Table I.II condition is result of accident or injury, also fill Table A.)
(a)	(b)	(c)	(d)	(e)	(f)	(8)	(h)
		Mo	Days	All orDays	Days	☐ Yes ☐ No	

Were any operations performed on you during this stay in the hospital? If "Yes": (a) That was the operation? (b) Any other operations?	That is the name and address of the hospital you were in? (Enter name, city or county, and State)
.(1)	(1)
·□ Yes → □ No	

The information thus obtained in Table II permits the identification and counting of admissions. discharges, and persons still in the hospital. The number of days of hospital stay can also be tabulated. Column (h) provides diagnostic information that is used in this report. If the respondent reports more than one condition, each condition is recorded. During the coding process one condition is selected for tabulation, this being the condition which is believed to have contributed the major portion of the hospital stay. The coding is done in accordance with the International Statistical Classification as modified for use in the U. S. National Health Survey. All operations reported are recorded in column (i). In the coding process up to three operations are coded. For the few rare cases in which more than three operations are reported, only the first three are coded. The type of operation classification used by the U. S. National Health Survey is one designed to classify the kinds of responses that are obtained from lay respondents.

Column (j) serves several purposes. First it makes it possible to determine if the institution reported is one that meets the definition of a hospital used in this survey (see Appendix II). In case the institution is determined not to be a hospital, the reported event is excluded from the statistics. If the institution is listed on the survey list of hospitals, it is then possible to determine the type of ownership, the type of service, and whether it is a short- or long-stay hospital.

Included in this report are population figures for selected characteristics. They are given solely for the purpose of providing denominators for rate computations. These figures based on the U.S. National Health Survey sample are not official estimates and, therefore, should be used only in conjunction with data given in this report.

COMMENTS ON DETAILED TABLES

The tables that follow give estimates of the number of discharges and the number of hospital days for patients discharged from short-stay hospitals. Excluded from the data are cases of newborn, well infants. The mothers of newborn infants, referred to as "deliveries," are included in all tables except table 2. Tables 1 and 2 and figures 1 and 2 indicate the importance of "deliveries" in the total hospitalization picture. Approximately 21 percent of the total discharges and 33 percent of the female discharges were due to deliveries. This point should be borne in mind in making age-sex comparison of rates, average length of stay, etc., from the detailed tables.

It also should be mentioned that estimates of the number of discharges include a few cases (0.2 percent of all cases) for which the number of hospital days was unknown. Since the number of cases with unknown days was so small, no attempt was made to adjust the estimates for hospital days. Hence, the number of hospital days are based on cases with known days of hospitalization. Average length-of-stay statistics are also unadjusted and are based on the published estimates for discharges and days.

Summary of Major Characteristics

Tables 1-4 show estimates of discharges and days, percent distributions, rate per 1,000 persons per year, and average length of stay for four major characteristics, i.e., age, sex, type of service, and type of ownership.

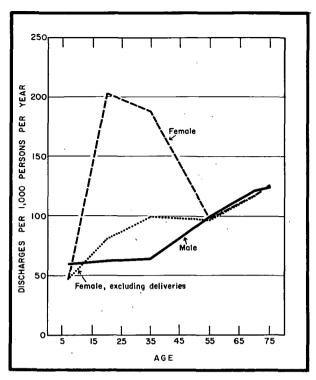


Figure 1. Number of discharges per 1,000 persons per year by sex and age.

Socioeconomic Characteristics

The next group of tables (5-9) presents data distributed by sex and age according to several socioeconomic variables, i.e., race, marital status, family income, and residence of the patient classified by urban, rural nonfarm, or rural farm, and by region of country.

Hospital Ownership

The data on discharges and days are distributed by sex, age, and family income according to type of hospital ownership in tables 10-12. The definitions of hospital ownership categories follow usage of the American Hospital Association.

Length-of-Stay Intervals

In tables 13-16 the same data are shown by sex and age for several length-of-stay intervals.

Hospitalized Conditions

The next two tables (17 and 18) present the data classified by the nature of the hospitalized condition. Whether or not surgery was performed for the hospitalized condition is also shown. For

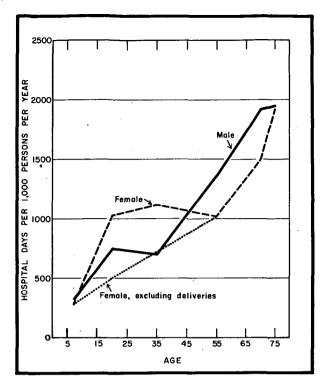


Figure 2. Number of hospital days per 1,000 persons per year by sex and age.

a list of the inclusions in each category shown, see Appendix II. The diagnostic information should be interpreted in the light of the method of collection. It is information provided by the physicians in attendance to members of the family and passed on to the interviewers.

It should be noted that a person who underwent surgery for some condition other than the hospitalized condition is counted as "not surgically treated" in this group of tables. All delivery cases, including spontaneous deliveries, were counted as surgically treated.

Number and Type of Surgical Cases

The final group of tables (19-22) contains data on the volume and type of operations. Table 19 shows by sex and age the number of patients who underwent surgery during the hospital episode regardless of whether or not the surgery was for the hospitalized condition. The total number of operations is shown in table 20 by age and sex. In table 21 the total number of operations is distributed by type. The final table (22) gives the number of cases, number of days, and average length of stay by type of operation for patients who had only one operation performed during the hospital episode,

The reasons cited previously for interpreting diagnostic information cautiously also apply to the interpretation of data on type of operation.

DETAILED TABLES

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and per- y sex and	. Number of patients discharged, number per 1,000 persons per year, and percent distribution; number of hospital days, number per 1,000 persons per year, and percent distribution; and average length of stay of patients discharged by sex age: Short-Stay Hospitals, United States, July 1957-June 1958	Table 1.
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rage	·	
22	Percent distribution of hospital days by length-of-stay intervals according to sex and age: Patients discharged from Short-Stay Hospitals, United States, July 1957-June 1958	Table 16.
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32	Population used in obtaining rates shown in this publication by sex, age, and family income: United States, July 1957-June 1958	27.

Table 1. Number of patients discharged, number per 1,000 persons per year, and percent distribution; number of hospital days, number per 1,000 persons per year, and percent distribution; and average length of stay of patients discharged by sex and age: Short-Stay Hospitals, United States, July 1957-June 1958

	1	Discharges		Н	Average		
	Number (in thousands)	Number per 1,000 persons	Percent	Number (in thousands)	Number per 1,000 persons	Percent	length of stay (in days)
Both sexes							
All ages	16,738	99.4	100.0	143,322	851.2	100.0	8.6
Under 15	2,801	53.2	16.7	15,530	295.0	10.8	5.5
15-24	2,901	137.5	17.3	18,936	897.7	13.2	6.5
25-44	5,868	128.5	35.1	42,045	920.9	29.3	7.2
45-64	3,413	99.0	20.4	41,002	1,189.5	28.6	12.0
65-74	1,148	119.2	6.9	16,363	1,699.7	11.4	14.3
75 : +	606	124.0	3.6	9,446	1,933.3	6.6	15.6
Male							
All ages	6,090	74.4	100.0	66,743	814.9	100.0	11.0
Under 15	1,591	59.3	26.1	8,456	315.1	12.7	5.3
	610	62.2	10.0	7,310	745.8	11.0	12.0
25-44	1,408	64.3	23.1	15,291	698.7	22.9	10.9
45-64	1,670	99.8	27.4	22,877	1,366.7	34.3	13.7
65-74	547	121.3	9.0	8,663	1,920.4	13.0	15.8
75+	26 3	123.4	4.3	4,145	1,945.1	6.2	15.8
<u>Female</u>							
All ages	10,648	123.2	100.0	76,579	885.7	100.0	7.2
Under 15	1,210	46.9	11.4	7,073	274.2	9.2	5.8
15-24	2,291	202.9	21.5	11,626	1,029.6	15.2	5.1
25-44	4,460	187.6	41.9	26,754	1,125.4	34.9	6.0
45-64	1,743	98.3	16.4	18,125	1,022.2	23.7	10.4
65-74	601	117.5	5.6	7,699	1,504.9	10.1	12.8
75 +	343	124.5	3.2	5,301	1,924.1	6.9	15.5

Table 2. Number of patients discharged, number per 1,000 persons per year, and percent distribution; number of hospital days, number per 1,000 persons per year, and percent distribution; and average length of stay of patients discharged, excluding deliveries, by sex and age: Short-Stay Hospitals, United States, July 1957-June 1958

		Discharges ding deliv	eries)	Ho (exclud	Average		
Sex and age	Number (in thousands)	Number per 1,000 persons	Percent	Number (in thousands)	Number per 1,000 persons	Percent	length of stay (in days)
Both sexes				,			
A11 ages	13,231	78.6	100.0	127,437	756.9	100.0	9.6
Under 15	2,796	53.1	21.1	15,515	294.8	12.2	5.5
15-24	1,508	71.5	11.4	12,974	615.1	10.2	8.6
25-44	3,775	82.7	28.5	32,229	705.9	25.3	8.5
45-64	3,397	98.5	25.7	40,910	1,186.8	32.1	12.0
65-74	1,148	119.2	8.7	16,363	1,699.7	12.8	14.3
75 +	606	124.0	4.6	9,446	1,933.3	7.4	15.6
<u>Male</u>				:			2*
A11 ages	6,090	74.4	100.0	66,743	814.9	100.0	11.0
Under 15	1,591	59.3	26.1	8,456	315.1	12.7	5.3
15-24	610	62.2	10.0	7,310	745.8	11.0	12.0
25-44	1,408	64.3	23.1	15,291	698.7	22.9	10.9
45-64	1,670	99.8	27.4	22,877	1,366.7	34.3	13.7
65-74	547	121.3	9.0	.8,663	1,920.4	13.0	15.8
75+	263	123.4	4.3	4,145	1,945.1	6.2	15.8
<u>Female</u>							
All ages	7,141	82.6	100.0	60,694	702.0	100.0	8.5
Under 15	1,205	46.7	16.9	7,059	273.6	11.6	5.9
	898	79.5	12.6	5,664	501.6	9.3	6.3
25-44	2,367	99.6	33.1	16,937	712.5	27.9	7.2
45-64	1,727	97.4	24.2	18,033	1,017.0	29.7	10.4
65-74	601	117.5	8.4	7,699	1,504.9	12.7	12.8
7 51	343	124.5	4.8	5,301	1,924.1	8.7	15.5

Table 3. Number and percent of patients discharged, number and percent of hospital days, and average length of stay, by sex and hospital type of service: Short-Stay Hospitals, United States, July 1957-June 1958

	Disch	arges	Hospit	Average	
Sex and hospital type of service	Number (in thousands)	Percent	Number (in thousands)	Percent	length of stay (in days)
Both sexes					
Total	16,738	100.0	143,322	100.0	8.6
General Maternity	16,131 76	96.4 0.5	138,983 435	97.0 0.3	8.6 5.7
Eye, ear, nose, and throat Children	75 123	0.4 0.7	456 1,177	0.3	6.1 9.6
Osteopathic	333	2,0	2,271	1.6	6.8
Male					•
Total	6,090	100.0	66,743	100.0	11.0
General Maternity	5,875 1	96.5 0.0	64,718 15	97.0 0.0	11.0 15.0
Eye, ear, nose, and throatChildren	43 55	0.7 0.9	283 739	0.4 1.1	6.6 13.4
Osteopathic	116	1.9	988	1.5	. 8.5
<u>Female</u>	-				
Total	10,648	100.0	76,579	100.0	7.2
General Maternity	10,257 75	96.3 0.7	74,265 420	97.0 0.5	7.2 5.6
Eye, ear, nose, and throat Children	33 68	0.3 0.6	173 437	0.2 0.6	5.2 6.4
Osteopathic	216	2.0	1,283	1.7	5.9

Table 4. Number and percent of patients discharged, number and percent of hospital days, and average length of stay, by sex and hospital type of ownership: Short-Stay Hospitals, United States, July 1957-June 1958

	Disch	arges	Hospit	Average	
Sex and hospital type of ownership	Number (in thousands)	Percent	Number (in thousands)	Percent	length of stay (in days)
Both sexes					
Total	16,738	100.0	143,322	100.0	8.6
Governmental (non-Federal)	2,811	16.8	23,644	16.5	8.4
Nonprofit church	4,657	27.8	35,828	25.0	7.7
Nonprofit other	7,172	42.8	56,844	39.7	7.9
	1,081	6.5	6,433	4.5	6.0
Veterans AdministrationOther Federal	330	2.0	12,846	9.0	38.9
	353	2.1	5,445	3.8	15.4
OsteopathicOther	333	2.0	2,271	1.6	6.8
	2	0.0	11	0.0	5.5
<u>Male</u>		•			
Total	6,090	100.0	66,743	100.0	11.0
Governmental (non-Federal) Nonprofit church	945	15.5	9,575	14.3	10.1
	1,624	26.7	14,940	22.4	9.2
Nonprofit other	2,545	41.8	22,093	33.1	8.7
	430	7.1	3,014	4.5	7.0
Veterans AdministrationOther Federal	301	4.9	12,551	18.8	41.7
	129	2.1	3,581	5.4	27.8
OsteopathicOther	116 1	1.9	988	1.5 0.0	8.5 2.0
<u>Female</u>					
Total	10,648	100.0	76,579	100.0	7.2
Governmental (non-Federal)	1,866	17.5	14,069	18.4	7.5
Nonprofit church	3,033	28.5	20,887	27.3	6.9
Nonprofit other	4,627	43.5	34,751	45.4	7.5
	652	6.1	3,419	4.5	5.2
Veterans AdministrationOther Federal	29	0.3	296	0.4	10.2
	224	2.1	1,864	2.4	8.3
OsteopathicOther	216 2	2.0 0.0	1,283 9	1.7	5.9 4.5

Table 5. Number of patients discharged, number per 1,000 persons per year, and average length of stay by sex, age, and race: Short-Stay Hospitals, United States, July 1957-June 1958

Sex and age	Number of discharges in thousands			Number per 1,000 persons			Average length of stay in days			
	Total	White	Non- white	Total	White	Non- white	Total	White	Non- white	
Both sexes										
All ages	16,738	15,473	1 ,2 65	99.4	103.3	68.2	8.6	8.4	10.2	
Under 15	2,801	2,580	221	53.2	56.5	31.6	5.5	5.2	10.0	
15-24 25-44	2,901 5,868	2,624 5,377	278 492	137.5 128.5	142.3 131.6	104.7 102.8	6.5 7.2	6.5 6.9	6.8 10.4	
45-64 65+	3,413 1,754	3,195 1,698	21 8 56	99.0 120.9	101.9 125.7	70.0 55.9	12.0 14.7	11.9 14.8	13.9 12.2	
<u>Male</u>										
All ages	6,090	5,677	413	74.4	77.8	46.4	11.0	10.6	16.5	
Under 15	1,591	1,483	109	59.3	63.6	31.1	5.3	5.0	9.6	
15-24 25-44	610 1,408	570 1,286	40 122	62.2 64.3	66.5 65.3	32.4 55.8	12.0 10.9	11.7 9.8	15.4 22. 5	
45-64 65+	1,670 810	1,558 780	112 30	99.8 122.0	102.2 126.5	74.6 62.9	13.7 15.8	13.4 15.9	18.2 12.4	
<u>Female</u>						'				
All ages	10,648	9,797	852	123.2	127.5	88.3	7.2	7.2	7.2	
Under 15	1,210	1,097	113	46.9	49.2	32.4	5.8	5.4	10.4	
15-24 25-44	2,291 4,460	2,054 4,091	237 369	202.9 187.6	208.1 193.3	166.8 141.8	5.1 6.0	5.0 6.0	5.3 6.4	
45-64 65+	1,743 944	1,637 919	106 26	98.3 119.9	101.6 125.1	65.8 49.5	10.4 13.8	10.5 13.8	9.3 12.0	

Table 6. Number of patients discharged and number per 1,000 persons per year by sex, age, and marital status: Short-Stay Hospitals, United States, July 1957-June 1958

·				.Marital	status			
Sex and age	Numbe	r of disc	harges in	thousands			of dischar	
Sex and age	Total	Never married	Married	Widowed, divorced, or separated	Total	Never married	Married	Widowed, divorced, or separated
Both sexes								
All ages	16,738	4,215	10,868	1,655	99.4	57.4	134.3	118.5
Under 15	2,801	2,801	1	-	53.2	53.2	83.3	-
15-24 25-44	2,901 5,868	869 261	1,967 5,277	65 331	137.5 128.5	63.2 65.8	283.3 135.3	162.9 123.4
45-64 65 +	3,413 1,754	189 95	2,680 943	544 716	99.0 120.9	86.4 101.5	97.7 125.0	112.3 118.7
<u>Male</u>		•						
All ages	6,090	2,385	3,290	415	74.4	62.6	81.8	115.9
Under 15	1,591	1,591	-	-	59.3	59.3	-	-
15-24 25-44	610 1,408	471 156	138 1,199	1 53	62.2 64.3	62.8 67.9	62.6 63.7	10.8 70.4
45-64 65 +	1,670 810	121 46	1,381 570	168 194	99.8 122.0	117.5 111.1	94.8 122.8	146.5 122.5
<u>Female</u>								
All ages	10,648	1,830	7,578	1,240	123.2	51.7	186.2	119.4
Under 15	1,210	1,209	1	-	46.9	46.9	90.9	-
15-24 25-44	2,291 4,460	399 105	1,829 4,077	63 278	202.9 187.6	63.9 63.0	385.9 202.1	205.9 144.0
45-64 65 +	1,743 944	68 49	1,299 373	376 522	98.3 119.9	58.7 93.9	100.9 128.5	101.6 117.4

Table 7. Number of patients discharged, number per 1,000 persons per year, and average length of stay, by age and family income: Short-Stay Hospitals, United States, July 1957-June 1958

·			Family	income							
Age	Total	Under 2,000	2,000- 3,999	4,000- 6,999	7,000+	Unknown					
	Number of discharges in thousands										
All ages	16,738	2,363	3,731	6,306	3,381	957					
Under 15	2,801	258	540	1,312	569	123					
15-24 25-44	2,901 5,868	387 503	823 1,139	1,098 2,622	433 1,379	161 225					
45-64 65+	3,413 1,754	553 662	785 443	999 276	765 235	311 139					
	Number of discharges per 1,000 persons										
All ages	99.4	92.8	103.5	101.3	97.9	95.1					
Inder 15	. 53.2	40:7	47.3	59.0	55.2	52.8					
L5-24 25-44	137.5 128.5	116.8 117.5	162.5 129.3	151.5 133.5	108.0 127.6	110.3 105.8					
45-64 65+	99.0 120.9	100.6 110.0	104.9 135.4	93.2 114.2	96.0 162.0	111.2 103.0					
		Aver	age length	of stay i	n days						
All ages	8.6	11.7	8.5	7.2	7.9	12.2					
inder 15	5.5	8.1	6.3	4.6	5.4	7.2					
L5-24 25-44	6.5 7.2	6.5 10.1	5.3 8.0	7.9 6.2	6.2 7.0	4.9 8.6					
\$5-64 65+	12.0 14.7	14.7 14.8	11.6 13.4	10.1 15.2	10.2 15.7	18.7 15.8					

Table 8. Number of patients discharged, number per 1,000 persons per year, and average stay in hospital by sex, age, and residence: Short-Stay Hospitals, United States, July 1957-June 1958

Appendix II.				·						·			
						Resid	lence						
Sex and age	Num	ber of d	lischarg usands	es	Numb	Number of discharges per 1,000 persons				Average length of stay in days			
	All areas	Urban	Rural non- farm	Rural farm	All areas	Urban	Rural non- farm	Rural farm	All areas	Urban	Rural non- farm	Rural farm	
Both sexes													
All ages	16,738	10,429	4,605	1,704	99.4	101.3	103.9	81.0	8.6	8.9	7.7	8.7	
Under 15	2,801	1,670	860	271	53.2	56.3	54.4	37.7	5.5	5.8	4.8	6.2	
15-24 25-44	2,901 5,868	1,678 3,707	881 1,635	341 526	137.5 128.5	129.4 130.8	172.0 130.5	113.5 110.1	6.5 7.2	6.5 7.4	5.9 6.5	8.3 7.7	
45-64 65+	3,413 1,754	2,247 1,126	789 439	377 189	99.0 120.9	98.9 121.0	105.2 130.5	88.9 102.4	12.0 14.7	12.0 15.9	12.8 12.3	10.1 13.3	
Male	·]				
All ages	6,090	3,733	1,676	681	74.4	76.0	76.5	62.5	11.0	11.1	10.4	11.6	
Under 15	1,591	923	494	175	59.3	61.8	60.5	46.8	5.3	5.5	4.7	6.2	
15-24 25-44	610 1,408	319 886	179 398	112 124	62.2 64.3	54.1 65.9	77.0 65.4	70.8 52.9	12.0 10.9	11.0 10.9	11.7 9.4	15.1 15.4	
45-64 65+	1,670 810	1,107 498	387 218	177 93	99.8 122.0	102.7 123.1	104.6 134.2	78.1 95.8	13.7 15.8	13.3 17.1	16.4 13.2	10.2 15.2	
<u>Female</u>													
All ages	10,648	6,697	2,929	1,023	123.2	124.3	130.6	100.8	7.2	7.7	6.2	6.8	
Under 15	1,210	748	366	96	46.9	50.8	47.9	27.9	5.8	6.2	5.0	6.2	
15-24 25-44	2,291 4,460	1,359 2,821	702 1,238	230 401	202.9 187.6	192.2 189.4	250.9 192.1	161.5 164.8	5.1 6.0	5.4 6.3	4.4 5.6	4.9 5.3	
45-64 65+	1,743 944	1,141 628	402 221	200 96	98.3 119.9	95.4 119.5	105.8 127.0	101.2 109.8	10.4 13.8	10.8 14.9	9.3 11.4	10.1 11.5	
	<u> </u>	<u> </u>	L	<u> </u>				L	L	<u> </u>	<u> </u>		

Table 9. Number of patients discharged, number per 1,000 persons per year, and average length of stay by age and region: Short-Stay Hospitals, United States, July 1957-June 1958

			Region							
Age	All areas	North- east	North Central	South	West					
		Number of	discharges i	n thousands						
A11 ages	16,738	4,090	5,291	4,958	2,398					
Under 15	2,801	735	937	739	391					
15-24 25-44	2,901 5,868	578 1,462	908 1,794	964 1,773	452 839					
45-64 65+	3,413 1,754	909 406	1,056 597	973 510	475 241					
	Number of discharges per 1,000 persons									
All ages	99.4	97.1	105.1	95.5	99.9					
Under 15	53.2	62.7	59.1	43.0	49.8					
15-24 25-44	137.5 128.5	120.9 123.2	148.8 132.1	130.4 132.5	160.6 122.9					
45-64 65+	99.0 120.9	91.1 107.4	104.3 128.2	98.8 125.1	105.3 120.7					
		Average	length of sta	ay in days						
All ages	8.6	9.4	9.0	7.8	7.5					
Under 15	5. 5	5.5	6.1	5.5	4.3					
15-24 25-44	6.5 7.2	6.9 7.9	7.5 6.6	6.0 7.4	5.1 6.4					
45-64 65+	12.0 14.7	13.5 16.5	12.9 16.4	10.4 11.1	10.5 15.0					

Table 10. Number of patients discharged by sex, hospital ownership, and age: Short-Stay Hospitals, United States, July 1957-June 1958

·			A	ge		
Sex and hospital ownership	All ages	Under 15	15-24	25-44	45-64	65+
Both sexes		Number	of discha	arges in th	nousands	
Total	16,738	2,801	2,901	5,868	3,413	1,754
Governmental non-Federal	2,811	428	639	862	540	341
Nonprofit church	4,657 7,172	784 1,295	740 1,113	1,754 2,499	939 1,491	439 774
Proprietary Other ¹	1,081 1,017	178 115	160 249	396 358	237 205	110 90
<u>Male</u>						
Total	6,090	1,591	610	1,408	1,670	810
Governmental non-Federal	945	239	128	186	250	142
Nonprofit church	1,624 2,545	454 721	157 186	364 580	434 712	215 346
ProprietaryOther ¹	430 547	102 75	48 91	119 159	117 158	44 63
<u>Female</u>						
Total	10,648	1,210	2,291	4,460	1,743	944
Governmental non-Federal	1,866	189	512	676	290	199
Nonprofit church	3,033 4,627	331 574	.583 926	1,390 1,918	505 780	224 428
Proprietary Other ¹	652 471	76 40	112 158	277 199	120 47	67 27

 $^{^{\}cdot 1}$ Includes Veterans Administration, Other Federal, Osteopathic, and other.

Table 11. Average length-of stay in days of patients discharged by sex, hospital ownership, and age: Short-Stay Hospitals, United States, July 1957-June 1958

			A	ge		
Sex and hospital ownership	All ages	Under 15	15-24	25-44	45-64	65+
Both sexes						
Total	8.6	5.5	6.5	7.2	12.0	14.7
Governmental non-Federal	8.4	6.8	5.6	6.6	12.9	13.1
Nonprofit church	7.7 7.9	5.8 5.2	5.1 5.7	6.4 6.4	10.3 10.9	15.0 14.9
ProprietaryOther1	6.0 20.2	3.8 5.4	6.7 16.7	5.5 19.5	7.0 31.5	7.7 26.3
Male				:		
Total	11.0	5.3	12.0	10.9	13.7	15.8
Governmental non-Federal	10.1	6.3	7.3	8.8	14.4	13.5
Nonprofit church	9.2 8.7	5.9 4.7	6.0 8.6	8.1 7.7	10.8 11.0	17.2 13.8
ProprietaryOther.1	7.0 31.3	4.1 6.0	11.6 36.2	6.5 34.2	7.7 37.3	8.1 32.5
Female						
Total	7.2	5.8	5.1	6.0	10.4	13.8
Governmental non-Federal	7.5	7.4	5.2	6.1	11.7	12.7
Nonprofit church	6.9 7.5	5.6 5.9	4.9 5.1	6.0 6.0	9.9 10.8	13.0 15.8
ProprietaryOther	5.2 7.3	3.3 4.1	4.6 5.4	5.0 7.8	6.4 11.9	7.3 11.9

 $^{^{1}}$ Includes Veterans Administration, Other Federal, Osteopathic, and other.

Table 12. Number of patients discharged, percent distribution, and average length of stay by hospital ownership and family income: Short-Stay Hospitals, United States, July 1957-June 1958

			Family	income					
Hospital ownership	Total	Under 2,000	2,000- 3,999	4,000- 6,999	7,000+	Unknown			
		Number	of discha	rges in th	ousands				
Total	16,738	2,363	3,731	6,306	3,381	957			
Governmental non-Federal Nonprofit church Nonprofit other Proprietary	2,811 4,657 7,172 1,081	647 469 897 177	746 968 1,515 252	788 1,957 2,797 398	435 1,040 1,529 205	195 225 434 48			
Veteran Other Federal Osteopathic Other in index	330 353 333 2	120 29 23 1	88 113 47 2	70 135 162	22 66 84	29 10 16			
	Percent distribution								
Total	100.0	14.1	22.3	37.7	20.2	5.7			
Governmental non-Federal Nonprofit church Nonprofit other Proprietary	100.0 100.0 100.0 100.0	23.0 10.1 12.5 16.4	26.5 20.8 21.1 23.3	28.0 42.0 39.0 36.8	15.5 22.3 21.3 19.0	6.9 4.8 6.1 4.4			
VeteranOther FederalOther FederalOsteopathicOther in index	100.0 100.0 100.0 100.0	36.4 8.2 6.9 50.0	26.7 32.0 14.1 100.0	21.2 38.2 48.6	6.7 18.7 25.2	8.8 2.8 4.8			
		Avera	ge length (of stay in	days				
Total	8.6	11.7	8.5	7.2	7.9	12.2			
Governmental non-Federal Nonprofit church Nonprofit other Proprietary	8.4 7.7 7.9 6.0	10.9 10.3 10.2 6.5	8.1 8.1 7.8 6.8	6.8 6.6 7.0 5.5	7.4 8.4 7.5 5.2	9.9 7.0 11.5 6.6			
Veteran Other Federal Osteopathic Other in index	38.9 15.4 6.8 5.5	39.5 15.4 9.7 2.0	39.0 6.5 7.9 4.5	22.3 20.6 6.3	24.0 20.6 6.7	89.3 11.7 6.2			

Table 13. Number of patients discharged by sex, age, and length-of-stay intervals: Short-Stay Hospitals, United States, July 1957-June 1958

tions of terms are given Appendix 11.							
Sex and age		Le	ength-of-s	stay inter	cvals in o	lays	
ber an age	Total	1	2-7	8-14	15-30	31+	Unknown
		-					
		Num	ber of di	scharges	in thousa	nds	
Both sexes				 	1		
A11 ages	16,738	1,736	10,042	3,011	1,322	589	39
Under 15	2,801	785	1,533	279	146	53	5
15-24 25-44	2,901 5,868	282 396	2,205 4,128	257 944	81 282	61 115	14 3
45-64 65+	3,413 1,754	20 5 67	1,519 656	1,010 521	484 328	188 172	7 . 10
Male					İ		
All ages	6,090	832	2,934	1,269	694	341	19
Under 15	1,591	45 2	889	137	76	31	5
15-24 25-44	610 1,408	91 140	348 758	93 310	30 122	44 77	4 2
45-64 65+	1,670 810	115 34	682 257	473 2 56	292 175	108 81	1 7
<u>Female</u>							
All ages	10,648	904	7,108	1,742	628	248	19
Under 15	1,210	333	644	142	70	. 21	-
15-24 25-44	2,291 4,460	192 256	1,857 3,370	164 634	51 161	17 39	10 1
45-64 65+	1,743 944	90 33	837 399	538 2 65	193 153	80 91	5 4

Table 14. Percent distribution of patients discharged by length-of-stay intervals according to sex and age: Short-Stay Hospitals, United States, July 1957-June 1958

Sex and age		Lei	ngth-of-st	tay interv	vals in d	ays	
Sex and age	Total	1	2-7	8-14	15-30	31+	Unknown
Both sexes				·			
All ages	100.0	10.4	60.0	18.0	7.9	3.5	0.2
Under 15	100.0	28.0	54.7	10.0	5.2	1.9	0.2
15-24 25-44	100.0 100.0	9.7 6.7	76.0 70.3	8.9 16.1	2.8 4.8	2.1 2.0	0.5 0.1
45-64 65+	100.0 100.0	6.0 3.8	44.5 37.4	29.6 29.7	14.2 18.7	5.5 9.8	0.2 0.6
<u>Male</u>							
All ages	100.0	13.7	48.2	20.8	11.4	5.6	0.3
Under 15	100.0	28.4	55.9	8.6	4.8	1.9	0.3
15-24 25-44	100.0 100.0	14.9 9.9	57.0 53.8	15.2 22.0	4.9 8.7	7.2 5.5	0.7 0.1
45-64 65+	100.0 100.0	6.9 4.2	40.8 31.7	28.3 31.6	17.5 21.6	6.5 10.0	0.1 0.9
<u>Female</u>			; !				
All ages	100.0	8.5	66.8	16.4	5.9	2.3	0.2
Under 15	100.0	27.5	53.2	11.7	5.8	1.7	-
15-24 25-44	100.0 100.0	8.4 5.7	81.1 75.6	7.2 14.2	2.2 3.6	0.7 0.9	0.4 0.0
45-64	100.0 100.0	5.2 3.5	48.0 42.3	30.9 28.1	11.1 16.2	4.6 9.6	0.3 0.4

Table 15. Number of hospital days by sex, age, and length-of-stay intervals: Patients discharged from Short-Stay Hospitals, United States, July 1957-June 1958

·		Lengt	h-of-stay in	tervals in d	ays							
Sex and age	Total	1	2-7	8-14	15-30	31+						
		Number	of hospital	days in tho	usands							
Both sexes												
All ages	143,322	1,736	42,538	32,200	27,963	38,885						
Under 15	15,530	785	5,841	3,008	3,190	2,705						
15-24 25-44	18,936 42,045	282 396	8,928 17,945	2,711 9,652	1,731 5,853	5,283 8,198						
45-64 65+	41,002 25,809	2 05 67	6,837 2,987	11,140 5,689	10,127 7,061	12,694 10,005						
<u>Male</u>												
All ages	66,743	832	12,600	13,862	14,968	24,481						
Under 15	8,456	452	3,404	1,481	1,679	1,440						
15-24 25-44	7,310 15,291	91 140	1,412 3,446	1,023 3,254	608 2,617	4,178 5,835						
45-64 65+	22,877 12,808	115 34	3,116 1,222	5,282 2,823	6,205 3,859	8,159 4,870						
<u>Female</u>		:										
All ages	76,579	904	29,939	18,337	12,995	14,404						
Under 15	7,073	333	2,437	1,527	1,511	1,265						
15-24 25-44	11,626 26,754	192 256	7,516 14,499	1,688 6,399	1,124 3,236	1,106 2,363						
45-64 65+	18,125 13,001	90 33	3,721 1,765	5,857 2,866	3,921 3,202	4,535 5,135						

Table 16. Percent distribution of hospital days by length-of-stay intervals according to sex and age: Patients discharged from Short-Stay Hospitals, United States, July 1957-June 1958

		Length	-of-stay int	ervals in da	ys	
Sex and age	Total	. 1	2-7	8-14	15-30	31+
Both sexes						
All ages	100.0	1.2	29.7	22.5	19.5	27.1
Under 15	100.0	5.1	37.6	19.4	20.5	17.4
15-24 25-44	100.0 100.0	1.5 0.9	47.1 42.7	14.3 23.0	9.1 13.9	27.9 19.5
45-64 65+	100.0 100.0	0.5 0.3	16.7 11.6	27.2 22.0	24.7 27.4	31.0 38.8
Male						
All ages	100.0	1.2	18.9	20.8	22.4	36.7
Under 15	100.0	5.3	40.3	17.5	19.9	17.0
15-24 25-44	100.0 100.0	1.2 0.9	19.3 22.5	14.0 21.3	8.3 17.1	57.2 38.2
45-64 65 +	100.0 100.0	0.5 0.3	13.6 9.5	23.1 22.0	27.1 30.1	35.7 38.0
<u>Female</u>						
All ages	100,0	1.2	39.1	23.9	17.0	18.8
Under 15	100.0	4.7	34.5	21.6	21.4	17.9
15-24 25-44	100.0 100.0	1.7	64.6 54.2	14.5 23.9	9.7 12.1	9.5 8.8
45-64 65+	100.0 100.0	0.5 0.3	20.5 13.6	32.3 22.0	21.6 24.6	25.0 39.5

Table 17. Number of patients discharged and number per 1,000 persons per year, by hospitalized condition and whether or not the condition was surgically treated: Short-Stay Hospitals, United States, July 1957-June 1958

		er of disch in thousand		Num	ber per 1, persons	000
Hospitalized condition	Total	Surgi- cally treated	Not sur- gically treated	Total	Surgi- cally treated	Not sur- gically treated
All conditions	16,738	10,124	6,614	99.4	60.1	39.3
Infective and parasitic diseases Malignant neoplasms Benign and unspecified neoplasms Allergic, endocrine, and metabolic disorders	298 259 738 445	27 187 696	271 72 42	1.8 1.5 4.4	0.2 1.1 4.1	1.6 0.4 0.2
Mental and personality disorders Intracranial lesions Diseases of nervous system and sense	306 93	9 5	297 88	1.8	0.1	1.8
organs	538 541	283 26	254 515	3.2 3.2	1.7 0.2	1.5 3.1
Hemorrhoids Other circulatory diseases Upper respiratory conditions Other respiratory conditions	239 411 1,231 976	227 134 1,033 27	12 278 198 949	1.4 2.4 7.3 5.8	1.3 0.8 6.1 0.2	0.1 1.7 1.2 5.6
Ulcer of stomach and duodenum Appendicitis Hernia Diseases of the gallbladder	282 417 453 421	83 365 423 246	198 51 30 174	1.7 2.5 2.7 2.5	0.5 2.2 2.5 1.5	1.2 0.3 0.2 1.0
Other digestive system conditions Female breast and genital disorders ² Other genitourinary conditions Deliveries ²	745 587 720 3,507	309 493 351 3,507	436 94 369	4.4 6.8 4.3 40.6	1.8 5.7 2.1 40.6	2.6 1.1 2.2
Pre- and post-natal conditions ² Diseases of the skin Arthritis Other musculoskeletal disorders	554 202 159 467	220 119 17 231	334 83 142 236	6.4 1.2 0.9 2.8	2.5 0.7 0.1 1.4	3.9 0.5 0.8 1.4
Other current injuries	664 710 642 133	611 212 207 9	53 498 435 124	3.9 4.2 3.8 0.8	3.6 1.3 1.2 0.1	0.3 3.0 2.6 0.7

 $^{^{1}\}mathrm{See}$ Appendix II for a list of conditions included in each category.

 $^{^{2}}$ Rates for these conditions based on total female population.

Table 18. Number of days and average length of stay by patients discharged, by hospitalized condition and whether or not the condition was surgically treated: Short-Stay Hospitals, United States, July 1957-June 1958

	Numb	er of days thousands	in	Average length of stay in days		
Hospitalized condition	Total	Surgi- cally treated	Not sur- gically treated	Total	Surgi- cally treated	Not sur- gically treated
All conditions	143,322	75,442	67,880	8.6	7.5	10.3
Infective and parasitic diseases Malignant neoplasms Benign and unspecified neoplasms Allergic, endocrine, and metabolic	5,637	890	4,748	18.9	33.0	17.5
	4,166	3,034	1,132	16.1	16.2	15.7
	5,846	5,443	403	7.9	7.8	9.6
disorders	4,183	817	3,366	9.4	12.8	8.8
Mental and personality disorders Intracranial lesions Diseases of nervous system and sense	4,895	218	4,677	16.0	24.2	15.7
	3,393	60	3,333	36.5	12.0	37.9
organs	4,811	2,342	2,469	8.9	8.3	9.7
	8,289	577	7,712	15.3	. 22.2	15.0
Hemorrhoids Other circulatory diseases Upper respiratory conditions Other respiratory conditions	1,917	1,788	129	8.0	7.9	10.8
	4,604	1,786	2,818	11.2	13.3	10.1
	2,666	1,878	787	2.2	1.8	4.0
	8,111	448	7,663	8.3	16.6	8.1
Ulcer of stomach and duodenum Appendicitis Hernia Diseases of the gallbladder	3,156	1,598	1,558	11.2	19.3	7.9
	2,709	2,502	207	6.5	6.9	4.1
	4,120	3,839	281	9.1	9.1	9.4
	4,694	3,462	1,232	11.1	14.1	7.1
Other digestive system conditions Female breast and genital disorders Other genitourinary conditions Deliveries	6,544 3,700 6,677 15,885	2,651 3,105 4,085 15,885	3,892 595 2,591	8.8 6.3 9.3 4.5	8.6 6.3 11.6 4.5	- 8.9 - 6.3 7.0
Pre- and post-natal conditions Diseases of the skin Arthritis Other musculoskeletal disorders	2,080	935	1,145	3.8	4.3	3.4
	2,379	910	1,468	11.8	7.6	17.7
	2,769	224	2,545	17.4	13.2	17.9
	5,999	3,289	2,710	12.8	14.2	11.5
Fractures and dislocations Other current injuries All other conditions Observation only	10,179	9,698	481	15.3	15.9	9.1
	5,489	2,253	3,236	7.7	10.6	6.5
	7,731	1,706	6,025	12.0	8.2	13.9
	694	18	676	5.2	2.0	5.5

 $^{^{1}\}mathrm{See}$ Appendix II for a list of conditions included in each category.

Table 19. Number of patients discharged, with and without surgery, and percent of patients with surgery by sex and age: Short-Stay Hospitals, United States, July 1957-June 1958

	Number o	f discharges in	thousands	Percent
Sex and age	Total	With surgery	Without surgery	With surgery
Both sexes				
All ages	16,738	10,159	6,579	60.7
Under 15	2,801	1,539	1,262	54.9
15-24 25-44	2,901 5,868	2,151 4,182	751 1,687	74.1 71.3
45-64 65+	3,413 1,754	1,575 713	1,838 1,041	46.1 40.6
<u>Male</u>				
All ages	6,090	2,998	3,092	49.2
Under 15	1,591	907	684	57.0
15-24 25-44	610 1,408	323 740	287 668	53.0 52.6
45-64 65+	1,670 810	724 304	946 506	43.4 37.5
<u>Female</u>				
All ages	10,648	7,161	3,487	67.3·
Under 15	1,210	632	578	52.2
15-24 25-44	2,291 4,460	1,828 3,442	463 1,019	79.8 77.2
45-64 65+	1,743 944	851 409	892 535	48.8 43.3

Table 20. Number and percent distribution of total operations performed on patients discharged by age and sex: Short-Stay Hospitals, United States, July 1957-June 1958

	Number of o	perations in	n thousands		Percent	4.1
Age	Both sexes	Male	Female	Both sexes	Male	Female
All ages	10,499	3,130	7,369	100.0	100.0	100.0
Under 15	1,580	933	647	15.0	29.8	8.8
	2,182	337	1,845	20.8	10.8	25.0
25-44	4,328	767	3,561	41.2	24.5	48.3
45-64	1,654	765	889	15.8	24.4	12.1
65-74	514	218	296	4.9	7.0	4.0
75+	242	110	132	2.3	3.5	1.8

Table 21. Number and percent distribution of total operations performed on patients discharged by type of operation and sex: Short-Stay Hospitals, United States, July 1957-June 1958

(See headnote on table 20)

1 84

		of opera		Percent		
Type of operation	Both sexes	Male	Female	Both sexes	Male	Female
Total operations	10,499	3,130	7,369	100.0	100.0	100.0
Operations on the brain and skull Eye operations Varicose veins Tonsillectomy and/or adenoidectomy	66 245 80 1,003	42 125 28 513	24 120 52 490	0.6 2.3 0.8 9.6	1.3 4.0 0.9 16.4	0.3 1.6 0.7 6.6
Operations for stomach ulcers Other operations on the stomach Appendectomies Repair of hernias	69 46 367 461	60 20 170 373	10 26 197 88	0.7 0.4 3.5 4.4	1.9 0.6 5.4 11.9	0.1 0.4 2.7 1.2
Operations on the intestines Operations for hemorrhoids Operations on the gallbladder Operations on the kidneys	215 242 248 95	88 125 94 48	127 118 154 47	2.0 2.3 2.4 0.9	2.8 4.0 3.0 1.5	1.7 1.6 2.1 0.6
Operations on the bladder Operations on the male genital system Hysterectomies Other female genital operations	122 253 269 985	54 253	69 269 985	1.2 2.4 2.6 9.4	1.7 8.1	0.9 3.7 13.4
Reduction of fractures and dislocations Cesarean deliveries All other deliveries All other operations	575 107 3,400 1,651	285 853	290 107 3,400 797	5.5 1.0 32.0 16.1	9.1 27.3	3.9 1.5 45.6 11.4

Table 22. Number of discharges and average length of stay by type of operation and sex for patients discharged who had only one operation during the hospital episode: Short-Stay Hospitals, United States, July 1957-June 1958

		er of dis In thousa		Average length of stay in days		
Type of operation	Both sexes	Male	Female	Both sexes	Male	Female
Total operations	9,833	2,867	6,966	7.3	9.4	6.4
Operations on the brain and skull Eye operations Varicose veins Tonsillectomy and/or adenoidectomy	55 243 64 987	32 122 23 506	23 120 41 481	23.3 8.2 8.3 1.7	30.6 9.6 12.3 1.6	13.1 6.9 6.0 1.9
Operations for stomach ulcers Other operations on the stomach Appendectomies Repair of hernias	58 39 348 415	50 18 170 345	8 21 177 70	20.1 14.8 6.7 9.1	19.3 16.5 6.9 9.1	25.4 13.3 6.6 9.3
Operations on the intestines Operations for hemorrhoids Operations on the gallbladder Operations on the kidneys	196 208 231 90	84 110 90 45	113 98 141 45	13.9 7.6 14.4 12.5	14.3 8.4 14.6 11.0	13.5 6.8 14.3 13.8
Operations on the bladder Operations on the male genital system Hysterectomies Other female genital operations	106 216 245 877	42 216 	64 245 877	12.8 11.5 10.2 5.3	. 13.9 11.5	12.0 10.2 5.3
Reduction of fractures and dislocations Cesarean deliveries All other deliveries	526 96 3,329 1,503	247 767	279 96 3,329 737	16.4 7.8 4.4 9.4	12.6 10.6	19.7 7.8 4.4 8.2

POPULATION

The following tables contain estimates of the civilian noninstitutional population of the United States based on interviews conducted by the U. S. National Health Survey during the period, July 1957-June 1958. These estimates have been used as a base for the rates shown in this report. They are not official population estimates and are included here solely to enable the reader to compute rates

for different combination of categories of data. A more complete discussion of this subject is contained in Appendix I.

For official population estimates, see Bureau of the Census reports on the civilian population of the United States, in <u>Current Population</u> Reports: Series P-20.

Table 23. Population used in obtaining rates shown in this publication by age and sex:
United States, July 1957-June 1958

Age	Both sexes	Male	Female	
	Population in thousands			
A11 ages	168,369	81,906	. 86,463	
Under 15	52,637 21,093 45,656 34,470 9,627 4,886	26,839 9,801 21,885 16,739 4,511 2,131	25,798 11,292 23,772 17,731 5,116 2,755	

Table 24. Population used in obtaining rates shown in this publication by sex, age, race, and marital status: United States, July 1957-June 1958

						· · · · · · · · · · · · · · · · · · ·			
		Race		Marital status					
Sex and age	Total	White	Nonwhite	Never married	Married	Widowed, divorced, or separated			
		Population in thousands							
Both sexes	1			1	· 				
All ages	168,369	149,810	18,559	73,459	80,948	13,962			
Under 15	52,637	45,636	7,001	52,620	12	4			
15-24 25-44	21,093 45,656	18,438 40,868	2,655 4,788	13,750 3,965	6,944 39,008	399 2,683			
45-64 65+	34,470 14,512	31,357 13,511	3,114 1,002	2,188 936	27,437 7,547	4,846 6,030			
<u>Male</u>									
All ages	81,906	72,999	8,907	38,081	40,243	3,582			
Under 15	26,839	23,330	3,509	26,834	1	4			
15-24 25-44	9,801 21,885	8,567 19,699	1,234 2,185	7,504 2,299	2,203 18,833	93 753			
45-64 65+	16,739 6,641	15,238 6,165	1,501 477	1,030 414	14,563 4,643	1,147 1,584			
<u>Female</u>						•			
All ages	86,463	76,811	9,652	35,378	40,705	10,381			
Under 15	25,798	22,306	3,491	25,787	11				
15-24 25-44	11,292 23,772	9,871 21,169	1,421 2,603	6,246 1,666	4,740 20,176	306 1,930			
45-64 65+	17,731 7,871	16,119 7,346	1,612 525	1,158 522	12,874 2,903	3,699 4,445			

Table 25. Population used in obtaining rates shown in this publication by sex, age, and residence: United States, July 1957-June 1958

•	Residence							
Sex and age	All areas	Urban	Rural non- farm	Rural farm				
	Population in thousands							
Both sexes								
All ages	168,369	102,985	44,334	21,049				
nder 15	52,637	29,640	15,817	7,180				
5-24 5-44	21,093 45,656	12,967 28,347	5,122 12,532	3,004 4,777				
5-64 5+	34,470 14,512	22,729 9,303	7,499 3,364	4,242 1,846				
Male								
All ages	81,906	49,098	21,905	10,903				
nder 15	26,839	14,928	8,170	3,741				
5-24 5-44	9,801 21,885	5,897 13,453	2,324 6,087	1,581 2,344				
5-64 5+	16,739 6,641	10,774 4,045	3,700 1,625	2,265 971				
Female								
All ages	86,463	53,888	22,429	10,146				
nder 15	25,798	14,712	7,647	3,439				
5-24 5-44	11,292 23,772	7,070 14,893	2,798 6,445	1,424 2,433				
5-64 5+	17,731 7,871	11,955 5,257	3,799 1,740	1,977 874				

Table 26. Population used in obtaining rates shown in this publication by sex, age, and region:
United States, July 1957-June 1958

	Region						
Sex and age	All areas	North- east	North Central	South	West		
,	Population in thousands						
Both sexes					,		
All ages	168,369	42,125	50,340	51,903	24,001		
Under 15	52,637	11,716	15,867	17,201	7,852		
15-24 25-44	21,093 45,656	4,779 11,870	6,104 13,583	7,395 13,379	2,815 6,824		
45-64 65 +	34,470 14,512	9,978 3,781	10,128 4,657	9,851 4,078	4,513 1,997		
Male							
All ages	81,906	20,487	24,722	25,120	11,577		
Under 15	26,839	5,991	8,144	8,759	3,945		
15-24 25-44	9,801 21,885	2,367 5,680	2,823 6,573	3,408 6,362	1,202 3,270		
45-64 65+	16,739 6,641	4,825 1,623	4,997 2,184	4,712 1,879	2,205 955		
Female							
All ages	86,463	21,637	25,618	26,783	12,425		
Under 15	25,798	5,725	7,723	8,442	3,907		
15-24 25-44	11,292 23,772	2,412 6,190	3,281 7,010	3,987 7,016	1,612 3,555		
45-64 65+	17,731 7,871	5,153 2,157	5,131 2,473	5,139 2,198	2,308 1,042		

Table 27. Population used in obtaining rates shown in this publication by sex, age, and family income: United States, July 1957-June 1958

	Family income						
Sex and age	Total	Under 2,000	2,000- 3,999	4,000 6,999	7,000+	Unknown	
	Population in thousands						
Both sexes							
All ages	168,369	25,459	36,051	62,248	34,549	10,062	
Under 15	52,637	6,341	11,424	22,228	10,312	2,331	
15-24 25-44	21,093 45,656	3,312 4,282	5,064 8,811	7,247 19,634	4,010 10,804	1,460 2,126	
45-64 65+	34,470 14,512	5,499 6,024	7,481 3,272	10,722 2,417	7,972 1,451	2,797 1,349	
<u>Male</u>							
All ages	81,906	11,383	17,395	31,040	17,370	4,718	
Under 15	26,839	3,124	5,892	11,341	5,307	1,175	
15-24 25-44	9,801 21,885	1,583 1,843	2,214 4,158	3,284 9,703	2,011 5,172	709 1,009	
45-64 65+	16,739 6,641	2,171 2,662	3,478 1,652	5,610 1,101	4,213 667	1,266 560	
<u>Female</u>							
All ages	86,463	14,076	18,655	31,208	17,179	5,345	
Under 15	25,798	3,218	5,532	10,887	5,005	1,156	
15-24 25-44	11,292 23,772	1,729 2,440	2,850 4,652	3,962 9,931	2,000 5,632	751 1,117	
45-64 65+	17,731 7,871	3,328 3,362	4,002 1,620	5,112 1,316	3,758 784	1,531 789	

APPENDIX I

TECHNICAL NOTES ON METHODS

Background of This Report

This report on <u>Hospitalization</u> is one of a series of statistical reports which cover separate health-related topics prepared by the U. S. National Health Survey. The report is based on information collected in the nationwide continuing sample household-interview survey which is a main aspect of the program.

The household-interview survey uses a questionnaire which, in addition to personal and demographic characteristics, requests information on illnesses, injuries, chronic conditions, medical care, dental care, and hospitalization. As interview data relating to each of these various broad subject areas are tabulated and analyzed, separate reports are issued covering one or more specific topics, In the interest of prompt publication, some of these reports are provisional or abbreviated. However, the continuous character of the household survey permits the collection of data for different periods of the year and the gradual accumulation of data sufficient for progressively more detailed classification and tabulation. For this reason preliminary or initial reports may be superseded when a larger volume of data and a need for more detailed information warrant amplification.

Data for Present Report

The present report is based on the consolidated sample for 52 weeks of interviewing ending June 28, 1958.

The population covered by the sample for the household-interview survey is the civilian population of the continental United States living at the time of interview. Although the sample collection covers persons living as inmates of resident-type institutions, data for these persons are not included in the figures given in these reports pending special study of the applicability of an interview-type questionnaire to these persons. The sample does not include members of the Armed Forces. United States nationals living in foreign countries, and crews of vessels, it should also be noted that the estimates shown do not represent a complete inventory of medical conditions existing or services received for any specified calendar period since no adjustment has been made for persons who experienced the condition or service during the reference period of the specific question and who were not living at the time of interview-for most questions, a time lapse of two weeks.

Statistical Design of the Household-Interview Survey

General plan.—The sampling plan of the survey follows a multistage probability design which permits a continuous sampling of the civilian population of the United States. The first stage of this design consists of an area sample of 372 from among approximately 1,900 geographically defined Primary Sampling Units (PSU's)

into which the continental United States has been divided. A PSU is a county, a group of contiguous counties, or a Standard Metropolitan Area.

With no loss in general understanding, the remaining stages can be telescoped and treated in this discussion as an ultimate stage. Within PSU's, then, ultimate stage units called segments are defined, also geographically, in such a manner that each segment contains an expected six households in the sample. Each week a random sample of about 120 segments is drawn. In the approximately 700 households in those segments persons are interviewed concerning illnesses, injuries, chronic conditions, disability, and other factors related to health.

The household members interviewed each week are a representative sample of the population so that samples for successive weeks can be combined into larger samples for, say a calendar quarter, or a year. Thus the design permits both continuous measurement of characteristics of high incidence or prevalence in the population, and through the larger consolidated samples more detailed analysis of less common characteristics and smaller categories. The continuous collection has administrative and operational advantages, as well as technical assets, since it permits field work to be handled with an experienced, stable staff.

Sample size and geographic detail.—The national sample plan over a 12-month period includes approximately 115,000 persons from 36,000 households in 6,000 segments, with representation from every State. The over-all sample was designed in such a fashion that abulations from the annual sample can be provided for various geographic sections of the United States and for urban and rural sectors of the Nation.

Collection of data,—The field operations for the household survey are performed by the Bureau of the Census under specifications established by the Public Health Service, in accordance with these specifications the Bureau of the Census designs and selects the sample, conducts the field interviewing acting as collecting agent for the Public Health Service, and edits and codes the questionnaires. Tabulations are prepared by the Public Health Service using the Bureau of the Census electronic computers.

Estimating methods.—Each statistic produced by the survey—for example, the number of persons with one or more days of restricted activity—is the result of two stages of ratio estimation. In the first of these, the ratio factor is 1950 decennial population count to estimated population for 1950 for the U. S. National Health Survey first-stage sample of PSU's. These factors are applied for 132 color-residence classes.

Later, ratios of sample-produced estimates of the population to official Bureau of the Census figures for current population in 76 age-sex-color classes are computed, and serve as second-stage factors for ratio estimating.

The effect of the ratio estimating process is to make the sample more closely representative of the population by age, sex, color, and residence, thus reducing sampling variance. As noted, each week's sample represents the population living during that week and characteristics of that population. Consolidation of samples over a time period, say a calendar quarter, produces estimates of average characteristics of the United States population for that calendar quarter.

For prevalence statistics, such as number of persons with impairments or number of persons classified by interval since last medical visit, figures presented for a designated calendar quarter are averages of estimates for all weeks of interviewing in that quarter. Similarly, prevalence data for a year are averages of the four quarterly figures.

For certain other types of statistics—namely those measuring the number of occurrences during a specified time period—such as number of discharges from hospitals or number of person bed-days over a year—a similar computational procedure is used, but the statistics have a different interpretation. For several of these items, the questionnaire asks for the respondent's experience over the year prior to the week of the interview. Thus consolidation of, say, samples in 52 successive weeks provides an estimate of one year's experience for all persons in the population; the specific year differs chronologically among persons in samples in the different weeks, the experience for each such person being that in the 52 weeks prior to his week of interview.

In some reports, rates for a quarter or six months are converted to an annual basis, in accordance with usual convention, in order to facilitate comparison of rates for time periods of different lengths, It must be remembered that any attempt to interpret such a converted figure as a true annual rate is subject to potential seasonal bias.

The interviewing and estimation procedure, as noted earlier, are designed to reproduce the experience in the reference period of the questionnaire for the population living at the time of interview.

General Qualifications

Nonresponse,—Data were adjusted for nonresponse by a procedure which imputed to persons in a household not interviewed the characteristics of interviewed persons in the same segment. The total noninterview rate was 6 percent; 1 percent was refusal, and the remainder was accounted for by all other reasons, such as failure to find any household respondent after repeated trials.

The interview process.—The statistics presented in this report are based on replies secured in interviews of persons in the sampled households. Each person 18 years and over, available at the time of interview, was interviewed individually. Proxy respondents within the household were accepted for children and for adults not available at the time of the interview provided the respondent was closely related to the person about whom information was being obtained.

There are limitations to the accuracy of diagnostic and other information collected in household interviews. For diagnostic information the household respondent can, at best, pass on to the interviewer only the information the physician has given to the family. For conditions not medically attended, diagnostic information is often no more than a description of symptoms. However, other types of facts such as those concerning the circumstances and consequences of illness or injury and the resulting action taken or sought by the individual can be obtained more accurately from household members than from any other source, since only the per-

sons concerned are in a position to report all of this type of information.

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

Population figures. - Some of the published tables include population figures for specified categories. These figures are based on the sample of households in the U. S. National Health Survey, are given solely for the purpose of providing denominators for rate computation, and are more appropriate for use with the accompanying measures of health characteristics than any other data that may be available. In some instances they will permit users to recombine published data into classes more suitable to their specific needs. The population figures are not official estimates, in some cases being themselves subject to considerable variability, and as such should be used only for computation of rates in connection with data given in this report. For fuller details on population estimates see Bureau of the Census reports in the P-20 Series.

Reliability of estimates.—Since the estimates are based on a sample, they will differ somewhat from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and interviewing personnel and procedures. As in any survey, the results are also subject to measurement error.

The standard error is primarily a measure of sampling variability, that is, the variations that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the standard error also reflects part of the variation which arises in the measurement process. It does not include estimates of any biases which might lie in the data. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 95 out of 100 that the difference would be less than twice the standard error and about 99 out of 100 that it would be less than 2½ times as large.

The estimates of standard errors shown in the following tables are approximations for the 372-area sample. Table A shows the average estimates of standard errors for three selected statistics from this report. The figures presented in tables B through D may be used by the reader to determine standard errors for other statistics. Not every report published by the Health Survey will include all classes of estimates treated in tables B through D. In order to derive standard errors which would be applicable to a wide variety of health statistics and which could be prepared at a moderate cost, a number of approximations were required. As a result, the tables should be interpreted as providing an estimate of approximate standard error rather than as the precise standard error for any specific aggregate or percentage.

The following paragraphs describe the classes of statistics for which each of tables B through D are appropriate, and how the tables can be used in determining standard errors. The "guide" which is shown on page 36 designates which of tables B through D should be used in obtaining standard errors for most of the estimates

Table A. Standard error of estimates of selected statistics

The statistic (a)	Sample estimate (b)	Standard error (c)
Total discharges from short-stay hospitals	16,700,000	270,000
Total discharges from short-stay hospitals, persons 65 years of age and over	1,800,000	90,000
Total number of days of hospitalization for persons discharged from short-stay		
hospitals	143,300,000	7,400,000

NOTE: For the statistic named in column a, the chances are 68 out of 100 that the difference between the sample estimate shown in column b and the figure that would have been obtained from a complete census is less than the number shown in column c.

Table B. Standard errors of estimates of population characteristics

(All numbers shown in thousands)

	Standard error						
Size of estimate	Manuar Madium		Wide- range statistics				
100	22	50	70				
500	50	80	100				
1,000	70	100	140				
2,000	100	140	180				
3,000	120	180	240				
5,000	160	260	370				
10,000	220	410	600				
20,000	300	570	840				
30,000	330	810	1,300				
50,000	. 350	1,300	2,400				
100,000	400	2,500	4,600				
200,000	•••	•••	11,000				

Table C. Standard error of estimated percentage for narrow- and medium-range statistics (body of table expressed in percentage points)

Estimated	Base of percentage (base is shown in thousands)										
percentage	100	500	1,000	2,000	3,000	5,000	10,000	20,000	30,000	50,000	100,000
2 or 98	3.6 5.6 6.8 9.8 12.9	1.6 2.5 3.0 4.4 5.8	1.1 1.8 2.1 3.1 4.1	0.8 1.3 1.5 2.2 2.9	0.7 1.0 1.2 1.8 2.4	0.5 0.8 1.0 1.4	0.4 0.6 0.7 1.0	0.3 0.4 0.5 0.7	0.2 0.3 0.4 0.6 0.7	0.2 0.3 0.3 0.4 0.6	0.1 0.2 0.2 0.3 0.4

Table D. Standard error of estimated percentage for wide-range statistics (body of table expressed in percentage points)

Estimated	Base of percentage (base is shown in thousands)										
percentage	100	500	1,000	2,000	3,000	5,000	10,000	20,000	30,000	50,000	100,000
	4.2 6.5 9.0 13.0 15.0	1.9 2.9 4.0 5.8 6.7	1.3 2.1 2.8 4.1 4.7	0.9 1.5 2.0 2.9 3.4	0.8 1.2 1.6 2.4 2.7	0.6 0.9 1.3 1.8 2.1	0.4 0.7 0.9 1.3	0.3 0.5 0.6 0.9	0.2 0.4 0.5 0.8 0.8	0.2 0.3 0.4 0.6 0.7	0.1 0.2 0.3 0.4 0.5

Variable	Use sampling error table indicated below
Number of discharges classified by any characteristic	Table B (Narrow range)
Percent distributions of discharges according to any characteristic	Table C
Rates based on discharges for age and sex or age, sex, and race	Table C
Rates based on discharges for marital status, family income, urban rural and region, by age and sex; hospitalized conditions	See text
Number of hospital days, classified by any characteristic	Table B (Wide range)
Percent distributions of days according to any character- istic	Table D
Rates based on days for age and sex	Table D
Any average length of stay estimate	See text

from the numbered tables of statistics in the present report.

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

Narrow range.—This class consists of (1) statistics which estimate a population attribute—i.e., number of persons with a specified characteristic; example: number of persons with one or more days of restricted activity (in previous two weeks); and (2) statistics for which the measure for a single individual for the period of reference in the questionnaire is usually either the value 0 or 1, but on occasion may take on the value 2, or very rarely, 3; example: incidence of automobile accidents (in previous two weeks).

Wide range.—This class consists of (1) statistics which are expressed in person-days or analogous terms such as bed-days; and (2) other statistics for which the measure for a single individual for the period of reference in the questionnaire will range from 0 to a number frequently in excess of 5; example: number of hospital days (in previous year).

Medium range.—This class consists of other statistics for which the measure for a single individual for the period of reference in the questionnaire will rarely lie outside the range 0 to 5; example: number of physician visits (in previous two weeks).

Standard errors for estimates of aggregates of each of these classes are shown in table B. The columns for Narrow and Wide range statistics were read from curves which have been fitted to computed standards errors for a number of appropriate items for four quarters of sampling. The figures for the Medium-range statistics are midpoint interpolations between the other two columns, and thus possess a further element of approximation.

<u>Illustration of use of table B</u>,—Persons aged 45-64 accounted for 3,413,000 hospital discharges over a 12-month period. Since it is rare for a person in the gen-

eral civilian population to be discharged from a hospital more than twice in a year, this is a Narrow-range statistic. Reading the proper column of table B it is found that a statistic of 3,000,000 has a standard error of 120,000 while a statistic of 5,000,000 has a standard error of 160,000. Interpolating between these values the approximate standard error of the estimated 3,413,000 discharges of persons age 45-64 is 128,000 which should be rounded to 130,000.

For one class of statistics, table B overstates the sampling error by a significant amount. This class consists of estimates of number of persons with a specified characteristic in an age or sex category of the population for which the number of such persons is a large part of the total population in the age or sex category. Such a statistic has the same <u>relative</u> standard error as does the estimated number expressed as a percent of the total population in the category. Table C may be utilized in computing standard errors for this group of estimates for statistics in the Narrow and Medium range, and table D for statistics in the Wide range. The <u>relative</u> standard error for any statistic is the standard error divided by the statistic itself.

The standard errors shown in table B are not directly applicable to differences between two sample estimates. The standard error of a difference is approximately the square root of the sum of the squares of each standard error considered separately. This formula will represent the actual standard error quite accurately for the difference between separate and uncorrelated characteristics although it is only a rough approximation in most other cases.

The reliability of an estimated rate or percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the rate and the size of the total upon which the rate is based. Generally, estimated rates are relatively more reliable than the corresponding absolute estimates of the nu-

merator of the rate, particularly if the rate is high. Tables C and D show approximate standard errors of estimated rates or percentages. Use table C for Narrow and Medium ranges and table D for Wide-range figures whenever the characteristic used to form the numerator of the percentage or rate is a subclass of the base or denominator.

Illustration.—Of the 2,800,000 children under 15 years of age who were discharged from hospitals in the period studied, 54.7 percent had been in the hospital between 2 and 7 days. The estimate is a Narrow-range statistic, since this is a dichotomous classification of the children. In table C, for a base of 2,000,000 persons, a statistic of 50 percent has a standard error of 2.9 percentage points, and a statistic of 75 percent has a standard error of 2.2 percentage points. Interpolating between those values gives a standard error of 2.3 percentage points for a statistic of 54.7 percent. Corre-

sponding calculations for a base of 3,000,000 persons produce a standard error of 1.9 percentage points for a statistic of 54.7 percent. A final interpolation between these two results yields an estimate of 2.2 percentage points as the standard error of the statistic which have a base of 2,800,000. (Interpolation has been carried out in two dimensions in this example. For most purposes, a simple scanning of table C will reveal an approximate answer which is sufficiently precise.)

For ratios or "rates" for which the numerator is not a subclass of the denominator, a rough approximation may be obtained from the following rule. The relative standard error of such a ratio is equal to the square root of the sum of the squares of the relative standard errors of the numerator and of the denominator. This rule results normally in an overstatement of the true standard error.

APPENDIX II

DEFINITIONS OF CERTAIN TERMS USED IN THIS REPORT

The following are definitions of certain terms used in this report which have a specialized meaning in the U. S. National Health Survey.

Terms Relating to Hospitalization

Hospital episode.—A hospital episode is any continuous period of stay of one or more nights in a hospital as an inpatient, except the period of stay of a well, newborn infant. In statistics from the survey for the year ending June 30, 1958, a hospital is defined as any institution meeting one of the following criteria: (1) named in the listing of hospitals in the 1956 or 1957 Guide Issue of Hospitals, the Journal of the American Hospital Association; (2) named in the listing of hospitals in the 1957 or 1958 Directory of the American Osteopathic Hospital Association; or (3) name of the institution unknown but believed by the respondent to be a hospital.

Hospital discharge.—A hospital discharge is a hospital episode that ended during a specified period of time. (See definition of "Hospital episode.")

A hospital discharge is recorded whenever a present member of the household is reported to have been discharged from a hospital in the 12-month period prior to the interview week.

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

Estimates of the total number of hospital days are derived by summing the days for all hospital episodes of a particular type, (See definition of "Hospital episode,") For example, the number of hospital days may be summed for all hospital discharges, (See definition of "Hospital discharge")

Length of hospital stay.—The length of hospital stay is the duration in days, exclusive of the day of discharge, of a hospital discharge. (See definition of "Hospital discharge.")

Average length of stay.—The average length of stay per discharged patient is computed by dividing the total number of hospital days for a specified group by the total number of discharges for the same group.

Hospitalized condition.—A hospitalized condition is a condition responsible for a hospital episode. (See definition of "Hospital episode.") If there is more than one hospital condition for any one episode, only that one believed to be chiefly responsible for the stay in the hospital is tabulated. If a person enters a hospital for diagnostic tests, or for an operation, the condition that made the tests or operation necessary is considered to be the hospitalized condition.

Normal delivery in a hospital is included as a hospital condition but care of the well, newborn infant is not.

Conditions, except impairments, are coded by type according to the International Statistical Classification

of Diseases, Injuries, and Causes of Death, with certain modifications adopted to make the code more suitable for a household-interview type survey. For survey results for the year ending June 30, 1958, the 1948 Revision of the International Classification was used, impairments are coded according to a special supplementary classification.

The following list shows the code numbers of the International Statistical Classification and special supplementary classification of impairments included in the condition groups used in this report.

Surgical operation,—A surgical operation includes any cutting or piercing of the skin or other tissue, stitching of cuts or wounds, and setting of fractures and dislocations. Deliveries are counted as operations. Injections and transfusions, however, are not included, nor are routine circumcisions.

Only operations performed in hospitals upon inpatients are included.

Operations are classified by type according to a condensed version of "Classification Codes for Surgical Operations and Procedures," published by the Bureau of Medical Services, Public Health Service, Department of Health, Education, and Welfare, September 1954.

Hospital ownership.—Hospital ownership is a classification of hospitals according to the type of organization that controls and operates the hospital. The category to which an individual hospital is assigned and the definition of these categories follows the usage of the American Hospital Association.

Type of hospital service.—Type of hospital service is a classification of hospitals according to the predominant type of cases for which they provide care. The category to which an individual hospital is assigned and the definition of these categories follows the usage of the American Hospital Association.

Short-stay hospital.—A short-stay hospital is one for which the type of service is: general; maternity; eye, ear, nose, and throat; osteopathic hospital; or hospital department of institution.

Demographic, Social, and Economic Terms

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

Race.—Race is recorded as "White," "Negro," or "Other." "Other" includes American Indian, Chinese, Japanese, and so forth, Mexican persons are included with "White" unless definitely known to be Indian or other nonwhite race.

Marital status.—Marital status is recorded only for persons 14 years of age or older. The categories of marital status are: married, widowed, divorced, separated, and never married. Persons whose only marriage was annulled are counted as "never married." Persons with common-law marriages are considered

Hospitalized Condition Groups

International Statistical Classification Code numbers!

Groups	Code numbers
Infective and parasitic diseases	001-138, except 083.1, 083.2
Malignant neoplasms	140-205
Benign and unspecified neoplasms	210-239
Allergic, endocrine, and metabolic disorders	240-289
Mental and personality disorders	083.1, 083.2, 300-326,790, X14-X19
Intracranial lesions	330-334
Diseases of nervous system and sense organs	340-396, 780, 781, X00-X13
Heart diseases	410-443
Hemorrhoids	461
Other circulatory diseases	400-402, 444-460, 462-468, 782
Upper respiratory conditions	470-475, 510-517
Other respiratory conditions	480-502, 518-527, 783, X36
Ulcer of stomach and duodenum	540-542
Appendicitis	550-553
Hernia	560, 561
Diseases of the gallbladder .	584-586
Other digestive system conditions	530-539, 543-545, 570-583, 587, 784, 785, X35
Female breast and genital disorders	620-637
Other genitourinary conditions	590-617 (620, 621 males), 786, 789, X37, X38
Deliveries	660, 670-678
Pre- and post-natal conditions	640-652, 680-689
Diseases of the skin	690-716
Arthritis	720-725
Other musculoskeletal disorders	726-744, 787 (N800-N839) ² , X20-X34, X70-X89
Fractures and dislocations	N800-N839 ³
Other current injuries	N840-N999 ³
Observation only	793

All other ISC and "X-Code" numbers

All other conditions

¹Conditions except impairments, are coded according to the International Statistical Classification with certain modifications, and impairments are coded according to a special supplementary classification referred to as the "X-Code." Numbers preceded by the letter "X" refer to this special supplementary classification. Copies of this code are available upon request. If the conditions included in an "ISC" number are equivalent to those included in an "X-Code" category, the ISC number is not used.

 $^{^{2}\}mbox{With .9}$ in the 4th digit.

 $^{^{3}}$ Other than .9 in the 4th digit.

to be married. "Separated" refers to married persons who have a legal separation or who have parted because of marital discord.

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

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

Location of Residence Terms

Urban and rural residence.—The definition of urban and rural areas used in the U. S. National Health Survey is the same as that used in the 1950 Census. According to this definition, the urban population comprises all persons living in (a) places of 2,500 inhabitants or more incorporated as cities, boroughs, and villages; (b) incorporated towns of 2,500 inhabitants or more except in New England, New York, and Wisconsin, where "Towns" are simply minor civil divisions of counties; (c) the densely settled urban fringe, including both incorporated and unincorporated areas, around cities of 50,000 or more; and (d) unincorporated places of 2,500 inhabitants or more outside any urban fringe. The remaining population is classified as rural.

Farm and nonfarm residence.—The rural population may be subdivided into the rural-farm population, which comprises all rural residents living on farms, and the rural-nonfarm population, which comprises the remaining rural population.

In deciding whether the members of a household reside on a farm or a ranch, the statement of the household respondent that the house is on a farm or ranch is accepted, with the following exception. A house occupied by persons who pay cash rent for house and yard only is not counted as a farm or ranch even if the surrounding area is farm land. This special case does not cover: (1) the living quarters of a tenant farmer who rents farm land as well as house and yard; (2) the quarters of a hired hand who receives living quarters on a farm as part of his compensation; or (3) separate living quarters inside a structure which is classified as on a farm. In all these cases the living quarters are counted as on a farm.

Geographic division.—For the purpose of classifying the population by geographic area of residence, the

Health Household-Interview Survey uses the same grouping of states used by the Bureau of the Census and many other agencies. These groups are called "divisions." Two of these divisions are further subdivided, as will be seen below.

Division	States Included
New England	Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
Middle Atlantic	New York, New Jersey, Pennsylvania
East North Central,	• .
Eastern Part East North Central,	Michigan, Ohio
Western Part	Illinois, Indiana, Wisconsin
West North Central	Minnesota, lowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
South Atlantic,	
Northern Part	Delaware, Maryland, District of Columbia, Virginia, West Virginia
South Atlantic,	
Southern Part	North Carolina, South Carolina, Georgia, Florida
East South Central	Kentucky, Tennessee, Alabama, Mississippi
West South Central	Arkansas, Louisiana, Oklahoma, Texas
Mountain	Montana, Idaho, Wyoming, Colorado, New Mexico.
Pacific	Arizona, Utah, Nevada Washington, Oregon, California

Region.—The least detailed classification of the population by geographic area of residence is provided by the grouping of states into four major regions. These regions correspond to those used by the Bureau of the Census. They are as follows:

Region	Geographic Divisions Included
Northeast	New England, Middle Atlantic
North Central	East North Central, West
	North Central
South	South Atlantic, East South
	Central, West South Central
West	Mountain, Pacific