

Series 13

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# Vital and Health Statistics

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From the CENTERS FOR DISEASE CONTROL AND PREVENTION / National Center for Health Statistics

## National Hospital Discharge Survey: Annual Summary, 1997

December 1999



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Centers for Disease Control and Prevention  
National Center for Health Statistics



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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Centers for Disease Control and Prevention  
National Center for Health Statistics

Hyattsville, Maryland  
December 1999  
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### *Cooperation of the U.S. Bureau of the Census*

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

In accordance with specifications established by the National Center for Health Statistics, the U.S. Bureau of the Census, under a contractual arrangement, participated in planning the surveys and collecting the data for the National Hospital Discharge Survey.

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## Abstract

### Objectives

This report presents national estimates of the use of non-Federal short-stay hospitals in the United States during 1997 and selected trend data. Estimates are provided by demographic characteristics of patients discharged, geographic region of hospitals, conditions diagnosed, and surgical and nonsurgical procedures performed. Measurements of hospital use include number and rate of discharges and days of care, and the average length of stay.

### Methods

The estimates are based on data collected through the National Hospital Discharge Survey. The survey has been conducted annually by the National Center for Health Statistics since 1965. In 1997, data were collected for approximately 300,000 discharges. Of the 501 eligible non-Federal short-stay hospitals in the sample, 474 (95 percent) responded to the survey. Diagnoses and procedures were coded according to the *International Classification of Diseases, 9th Revision, Clinical Modification*, or ICD-9-CM.

**Keywords:** *hospitalization • inpatient • diagnoses • procedures*

# National Hospital Discharge Survey: Annual Summary, 1997

by *Lola Jean Kozak and Linda Lawrence, Division of Health Care Statistics*

## Highlights

- During 1997 an estimated 30.9 million inpatients were discharged from non-Federal short-stay hospitals. These patients used an estimated 157.5 million days of care.
- Patients 65 years of age and over comprised 12 percent of the population in 1997, but they accounted for 39 percent of discharges and used 49 percent of days of care.
- Deaths accounted for 3 percent of discharges.
- Deliveries and heart disease combined accounted for 8 million discharges and 26 percent of first-listed diagnoses.
- Heart disease was the first-listed diagnosis for 22 percent of discharges for patients 65 years of age and over.
- Both the number and the rate of hospitalizations for patients with human immunodeficiency virus (HIV) were approximately 30 percent lower in 1997 than in 1995.
- Patients with first-listed diagnoses of heart disease or malignant neoplasms accounted for 34 percent of deaths in short-stay hospitals.
- At least one procedure was reported for 62 percent of discharges.
- Three surgical procedures performed 1 million times or more were episiotomy, cardiac catheterization, and repair of current obstetric laceration.
- Three nonsurgical procedures performed 1 million times or more were arteriography and angiocardiology using contrast material, diagnostic ultrasound, and respiratory therapy.
- The average length of a hospital stay for childbirth increased from 2.1 days in 1995 to 2.4 days in 1997. This increase was due to a reduction in the number of women hospitalized 1 day or less for childbirth.
- The number of obstetrical procedures per 100 deliveries increased from 93.7 in 1980 to 173.3 in 1997.
- The 1997 cesarean rate was 21.5, the primary rate was 15.6, and the rate of vaginal birth after cesarean delivery (VBAC) was 34.5.
- An estimated 3.8 million newborn infants were discharged from short-stay hospitals after average stays of 2.9 days.
- Almost half the diagnoses of sick newborn infants were hemolytic disease of fetus or newborn, respiratory distress syndrome and other respiratory conditions, disorders relating to short gestation and unspecified low birthweight, or congenital anomalies.

This report was prepared in the Division of Health Care Statistics. Rong Cai of the OAO Corporation did the computer programming for the report and produced the estimated parameters for relative standard error equations. The report was edited by Klaudia M. Cox and typeset by Zung T. N. Le of the Publications Branch, Division of Data Services.

## Introduction

This report presents data from the 1997 National Hospital Discharge Survey (NHDS). The survey has been conducted continuously by the National Center for Health Statistics (NCHS) since 1965. National estimates of hospital use derived from NHDS are published for each calendar year by NCHS. This report provides a summary of the 1997 data, including the number and rate of discharges, days of care and average lengths of stay by the age and sex of patients, and by the geographic region of hospitals. Estimates are also presented by first-listed diagnosis, all-listed diagnoses, and all-listed procedures. Additional data from the 1997 NHDS are published in other NCHS reports (1,2).

NHDS is the principal source for national data on the characteristics of patients discharged from non-Federal short-stay hospitals. Data from NHDS are used to examine important topics in public health (3–7) and for a variety of planning, administrative, and evaluation activities by governmental, scientific, academic, and commercial institutions.

Estimates of the number of procedures shown in this report are only for inpatients. Data on ambulatory surgery are not available because the National Survey of Ambulatory Surgery (NSAS), which covered ambulatory surgery performed in hospitals and in freestanding ambulatory surgery centers (8), was not conducted in 1997.

## Methods

### Data Source

NHDS data were collected from a sample of inpatient records acquired from a national probability sample of hospitals. Because persons with multiple discharges during the year could be sampled more than once, NHDS produces estimates for discharges, not persons. Only hospitals with an average length of stay of fewer than 30 days for all patients, general hospitals, or children's general hospitals were

included in the survey. Federal, military, and Department of Veterans Affairs hospitals, as well as hospital units of institutions (such as prison hospitals), and hospitals with fewer than six beds staffed for patient use, were excluded. Beginning in 1988, the sampling frame for hospitals was the SMG Hospital Market Database (9). The sampling frame was updated in 1991, 1994, and 1997 to identify hospitals that opened or changed their eligibility status after the previous sample update.

NHDS used a two-stage design until 1988 when it was redesigned and a stratified three-stage design was implemented (10). Both the original and the redesigned sample included the largest hospitals with certainty and sampled noncertainty hospitals. After the redesign, the first stage of the three-stage design consisted of the selection of 112 primary sampling units (PSU's) that comprised a probability sample of PSU's used in the 1985–94 National Health Interview Survey (11). The second stage consisted of the selection of noncertainty hospitals from the sample PSU's. At the third stage, a systematic random sample of discharges within hospitals was selected.

For 1997, the sample consisted of 513 hospitals, 12 of which were out of scope (ineligible) because they had gone out of business or otherwise failed to meet the criteria for the NHDS universe. Of the 501 in-scope (eligible) hospitals, 474 (95 percent) responded to the survey. Data were collected for approximately 300,000 discharges from the 474 responding hospitals.

Two data collection procedures were used for the survey. One was a manual system in which sample selection and transcription of information from the hospital records to abstract forms were performed by the hospital's staff or by staff of the U.S. Bureau of the Census on behalf of NCHS. Completed forms were sent to NCHS for data coding, editing, and estimation.

The other data collection procedure was an automated system in which NCHS purchased tapes containing machine-readable medical record data from commercial organizations, State data systems, hospitals, or hospital

associations. Records from these tapes were systematically sampled by NCHS. In 1997, approximately 40 percent of respondent hospitals provided data through the automated system.

The medical abstract form is shown as [figure I](#) in the appendix. This form and the automated data tapes contained items that related to the personal characteristics of the patient. These items included birth date (or age), sex, race, ethnicity, marital status, ZIP Code, and expected sources of payment. Administrative items such as admission and discharge dates, discharge status, and medical record number were also included. Medical information about patients included diagnoses, surgical and nonsurgical procedures, and dates of surgery. (The medical record number, date of birth, and ZIP Code are confidential information that are not available to the public.) Medical data were coded according to the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD–9–CM)* (12).

For the manual data collection, an ongoing quality control program was undertaken on the coding and entering of data from abstracts to machine-readable form. Approximately 10 percent of the abstracts were independently recoded by an NHDS coder, with discrepancies resolved by the chief coder. The overall error rate for records manually coded by NCHS for the 1997 data year was 0.9 percent for medical (ICD–9–CM) coding and data entry and 0.2 percent for demographic coding and data entry.

### Estimation

Because they are sample data, the survey data must be inflated or weighted to produce national estimates. The estimation procedure produced essentially unbiased national estimates and had three basic components:

- (1) inflation by reciprocals of the probabilities of sample selection,
- (2) adjustment for nonresponse, and
- (3) population weighting ratio adjustments. These three components of the final weight were described in more detail in an earlier report (13). Information about the standard errors of



statistics for the 1997 NHDS are in the appendix of this report.

## Use of Tables

Estimates of hospital use by age and sex of discharged patients and geographic region of hospitals are shown in tables 1–3 and fatality rates are in table 4 of this report. Diagnostic data are included in tables 5–20 and information about procedures is found in tables 21–30. Tables 31–38 present data on women with deliveries and newborn infants. Definitions of terms used in these tables are presented in the appendix.

The diagnostic data in tables 7–18 and procedure data in tables 25–30 are presented by chapter of the ICD–9–CM. Within these chapters, subcategories of diagnoses or procedures are shown. These specific categories were selected because of their large estimates or because they were of special interest. Although diagnoses assigned ICD–9–CM codes E800–E999 (Supplementary classification of external causes of injury and poisoning) were included in NHDS, these diagnoses were not well reported in the survey and therefore were excluded from this report.

Table 24 shows data for coronary artery bypass graft (CABG) surgery and removal of coronary artery obstruction and insertion of stent(s). These procedures were often assigned more than one code for a single operation. Coronary artery bypass graft (CABG) surgery frequently was assigned one code to indicate the number of arteries bypassed and a second to indicate the type of bypass (such as mammary-coronary artery bypass). Beginning with the 1996 NHDS data, patients could have a separate code for insertion of stent(s) along with a code for removal of coronary artery obstruction. As shown in table 24, the number of these procedures greatly exceeded the number of inpatients who had one or more of the procedures.

Tables 4 and 20 show fatality rates, which are ratios of deaths to discharges. In contrast, mortality rates are ratios of deaths to the population. Mortality rates include deaths that occur outside of

hospitals. In addition, these rates are for the underlying cause of death, which might not be the same as the first-listed diagnosis for a patient discharged dead. Mortality rates are published regularly by NCHS in *National Vital Statistics Reports* and in *Vital Statistics of the United States*.

Data for newborn infants are included only in tables 36–38. Because estimates of newborn infants were based on a sample and because they did not include out-of-hospital births, these estimates might not agree with the data on births published in *National Vital Statistics Reports* and *Vital Statistics of the United States*, which were based on a complete count of births.

Because of low reliability, estimates with relative standard errors of more than 30 percent or that are based on fewer than 30 records are not presented; only an asterisk (\*) appears in the tables. Estimates based on fewer than 60 records are preceded by an asterisk (\*) to indicate that they also have low reliability.

Estimates have been rounded to the nearest thousand. Therefore, figures within tables do not always add to the totals. Rates, percents, and average lengths of stay were calculated from unrounded figures and may not precisely agree with measures calculated from rounded data.

The population estimates used to compute rates are shown in table I in the appendix. These estimates have been adjusted for the 1990 census underenumeration. Populations used to compute rates in previous reports of 1990–96 NHDS data were not adjusted for the underenumeration. For 1997, the discharge rate based on the adjusted population was 1.5 percent lower than the rate based on the unadjusted population, which was not a statistically significant difference. Although generally not significant, the changes in rates due to the population adjustment varied somewhat by age (under 15 years—3.1 percent; 15 years and over—1.1 percent), sex (males—1.8 percent; females—1.2 percent) and region (West—2.2 percent; South—1.9 percent; Northeast—0.9 percent; Midwest—0.7 percent).

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**Table 1. Number and rate of discharges from short-stay hospitals and of days of care, with average length of stay, by age: United States, selected years, 1970–97**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants]

Age	1970	1975	1980	1985	1990	1995	1997
Number of discharges in thousands							
All ages . . . . .	29,127	34,043	37,832	35,056	30,788	30,722	30,914
Under 15 years . . . . .	3,873	3,826	3,672	2,972	2,412	2,405	2,312
15–44 years . . . . .	12,664	14,171	15,635	13,966	11,799	10,593	10,030
45–64 years . . . . .	6,693	8,391	8,660	7,610	6,244	6,168	6,377
65 years and over . . . . .	5,897	7,654	9,864	10,508	10,333	11,556	12,196
65–74 years . . . . .	3,163	4,057	4,943	5,011	4,689	4,832	4,872
75–84 years . . . . .	2,099	2,728	3,611	3,969	3,949	4,590	4,965
85 years and over . . . . .	635	869	1,310	1,528	1,694	2,134	2,359
Rate of discharges per 1,000 population <sup>1</sup>							
All ages . . . . .	144.3	159.2	167.7	148.4	122.3	115.7	114.3
Under 15 years . . . . .	66.8	70.4	71.6	57.7	43.1	40.4	38.7
15–44 years . . . . .	154.6	152.4	150.1	125.0	99.3	87.8	82.5
45–64 years . . . . .	159.6	191.8	194.8	170.8	135.5	118.5	115.4
65 years and over . . . . .	293.3	337.3	383.7	369.8	334.1	347.7	361.1
65–74 years . . . . .	253.2	291.5	315.8	297.3	261.6	260.0	265.9
75–84 years . . . . .	339.5	392.1	463.9	446.4	395.7	415.6	427.8
85 years and over . . . . .	443.7	477.1	576.4	572.9	560.6	592.5	613.6
Number of days of care in thousands							
All ages . . . . .	226,445	262,389	274,508	226,217	197,422	164,627	157,458
Under 15 years . . . . .	18,189	17,554	16,191	13,554	11,655	10,715	9,836
15–44 years . . . . .	71,605	80,687	81,951	67,397	54,062	40,825	37,160
45–64 years . . . . .	62,419	75,393	71,008	53,541	42,153	34,207	33,264
65 years and over . . . . .	74,232	88,754	105,358	91,726	89,552	78,880	77,198
65–74 years . . . . .	37,873	44,963	49,253	41,090	37,422	31,310	29,305
75–84 years . . . . .	27,633	32,906	40,355	36,024	35,926	31,974	32,010
85 years and over . . . . .	8,726	10,886	15,750	14,612	16,204	15,597	15,883
Rate of days of care per 1,000 population <sup>1</sup>							
All ages . . . . .	1,121.6	1,227.3	1,216.7	957.7	784.0	620.2	582.3
Under 15 years . . . . .	313.9	322.9	315.7	263.0	208.4	179.9	164.6
15–44 years . . . . .	874.0	867.9	786.8	603.3	454.9	338.4	305.5
45–64 years . . . . .	1,488.8	1,723.0	1,596.9	1,201.6	914.4	657.5	601.9
65 years and over . . . . .	3,691.9	3,910.6	4,098.4	3,228.0	2,895.6	2,373.7	2,285.6
65–74 years . . . . .	3,031.6	3,230.8	3,147.0	2,437.3	2,087.8	1,684.7	1,599.3
75–84 years . . . . .	4,469.2	4,729.2	5,183.7	4,052.2	3,599.5	2,894.7	2,758.0
85 years and over . . . . .	6,102.1	5,978.1	6,932.1	5,478.7	5,361.7	4,330.6	4,131.0
Average length of stay in days							
All ages . . . . .	7.8	7.7	7.3	6.5	6.4	5.4	5.1
Under 15 years . . . . .	4.7	4.6	4.4	4.6	4.8	4.5	4.3
15–44 years . . . . .	5.7	5.7	5.2	4.8	4.6	3.9	3.7
45–64 years . . . . .	9.3	9.0	8.2	7.0	6.8	5.5	5.2
65 years and over . . . . .	12.6	11.6	10.7	8.7	8.7	6.8	6.3
65–74 years . . . . .	12.0	11.1	10.0	8.2	8.0	6.5	6.0
75–84 years . . . . .	13.2	12.1	11.2	9.1	9.1	7.0	6.4
85 years and over . . . . .	13.7	12.5	12.0	9.6	9.6	7.3	6.7

<sup>1</sup>Rates for 1990, 1995, and 1997 are based on U.S. Bureau of the Census estimates of the civilian population that have been adjusted for net underenumeration in the 1990 Census. See appendix.

**Table 2. Number, percent distribution, and rate of discharges from short-stay hospitals and of days of care, with average length of stay, by sex and age: United States, 1997**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants]

Sex and age	Discharges			Days of care			Average length of stay in days
	Number in thousands	Percent distribution	Rate per 1,000 population	Number in thousands	Percent distribution	Rate per 1,000 population	
<b>Both sexes</b>							
All ages . . . . .	30,914	100.0	114.3	157,458	100.0	582.3	5.1
Under 15 years . . . . .	2,312	7.5	38.7	9,836	6.2	164.6	4.3
Under 1 year . . . . .	775	2.5	196.6	3,929	2.5	996.4	5.1
1-4 years . . . . .	688	2.2	43.3	2,165	1.4	136.3	3.1
5-14 years . . . . .	848	2.7	21.2	3,742	2.4	93.7	4.4
15-44 years . . . . .	10,030	32.4	82.5	37,160	23.6	305.5	3.7
15-19 years . . . . .	1,161	3.8	59.6	4,199	2.7	215.5	3.6
20-24 years . . . . .	1,601	5.2	90.1	4,815	3.1	270.9	3.0
25-34 years . . . . .	3,923	12.7	97.7	13,176	8.4	328.0	3.4
35-44 years . . . . .	3,345	10.8	75.7	14,970	9.5	338.6	4.5
45-64 years . . . . .	6,377	20.6	115.4	33,264	21.1	601.9	5.2
45-54 years . . . . .	3,152	10.2	93.7	15,504	9.8	460.8	4.9
55-64 years . . . . .	3,225	10.4	149.1	17,760	11.3	821.4	5.5
65 years and over . . . . .	12,196	39.5	361.1	77,198	49.0	2,285.6	6.3
65-74 years . . . . .	4,872	15.8	265.9	29,305	18.6	1,599.3	6.0
75-84 years . . . . .	4,965	16.1	427.8	32,010	20.3	2,758.0	6.4
85 years and over . . . . .	2,359	7.6	613.6	15,883	10.1	4,131.0	6.7
Under 17 years . . . . .	2,647	8.6	39.1	11,189	7.1	165.4	4.2
17-69 years . . . . .	18,318	59.3	102.5	82,423	52.3	461.3	4.5
70 years and over . . . . .	9,949	32.2	412.7	63,845	40.5	2,648.3	6.4
<b>Male</b>							
All ages . . . . .	12,268	100.0	92.7	67,266	100.0	508.3	5.5
Under 15 years . . . . .	1,316	10.7	43.0	5,623	8.4	183.8	4.3
Under 1 year . . . . .	457	3.7	226.6	2,265	3.4	1,122.8	5.0
1-4 years . . . . .	394	3.2	48.5	1,258	1.9	154.8	3.2
5-14 years . . . . .	465	3.8	22.7	2,101	3.1	102.8	4.5
15-44 years . . . . .	2,688	21.9	44.1	13,342	19.8	218.7	5.0
15-19 years . . . . .	302	2.5	30.2	1,546	2.3	154.4	5.1
20-24 years . . . . .	257	2.1	28.5	1,267	1.9	140.8	4.9
25-34 years . . . . .	833	6.8	41.6	3,878	5.8	193.8	4.7
35-44 years . . . . .	1,296	10.6	59.0	6,651	9.9	302.7	5.1
45-64 years . . . . .	3,161	25.8	117.9	16,690	24.8	622.5	5.3
45-54 years . . . . .	1,511	12.3	91.7	7,694	11.4	466.7	5.1
55-64 years . . . . .	1,650	13.5	159.8	8,997	13.4	871.2	5.5
65 years and over . . . . .	5,102	41.6	366.1	31,611	47.0	2,268.0	6.2
65-74 years . . . . .	2,250	18.3	273.8	13,403	19.9	1,630.9	6.0
75-84 years . . . . .	2,099	17.1	455.3	13,440	20.0	2,915.1	6.4
85 years and over . . . . .	753	6.1	678.4	4,768	7.1	4,298.8	6.3
Under 17 years . . . . .	1,439	11.7	41.5	6,197	9.2	178.9	4.3
17-69 years . . . . .	6,751	55.0	76.6	35,450	52.7	402.0	5.3
70 years and over . . . . .	4,078	33.2	429.0	25,620	38.1	2,695.1	6.3
<b>Female</b>							
All ages . . . . .	18,647	100.0	135.0	90,192	100.0	653.1	4.8
Under 15 years . . . . .	995	5.3	34.1	4,212	4.7	144.5	4.2
Under 1 year . . . . .	318	1.7	165.1	1,664	1.8	864.0	5.2
1-4 years . . . . .	294	1.6	38.0	907	1.0	117.0	3.1
5-14 years . . . . .	383	2.1	19.7	1,641	1.8	84.2	4.3
15-44 years . . . . .	7,341	39.4	121.1	23,819	26.4	392.8	3.2
15-19 years . . . . .	859	4.6	90.6	2,653	2.9	280.1	3.1
20-24 years . . . . .	1,344	7.2	153.2	3,548	3.9	404.4	2.6
25-34 years . . . . .	3,090	16.6	153.3	9,298	10.3	461.3	3.0
35-44 years . . . . .	2,049	11.0	92.1	8,319	9.2	374.0	4.1

**Table 2. Number, percent distribution, and rate of discharges from short-stay hospitals and of days of care, with average length of stay, by sex and age: United States, 1997—Con.**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants]

Sex and age	Discharges			Days of care			Average length of stay in days
	Number in thousands	Percent distribution	Rate per 1,000 population	Number in thousands	Percent distribution	Rate per 1,000 population	
Female—Continued							
45–64 years . . . . .	3,216	17.2	113.0	16,574	18.4	582.5	5.2
45–54 years . . . . .	1,641	8.8	95.6	7,810	8.7	455.2	4.8
55–64 years . . . . .	1,575	8.4	139.4	8,764	9.7	775.8	5.6
65 years and over . . . . .	7,094	38.0	357.6	45,587	50.5	2,298.1	6.4
65–74 years . . . . .	2,621	14.1	259.4	15,903	17.6	1,573.6	6.1
75–84 years . . . . .	2,866	15.4	409.6	18,570	20.6	2,654.4	6.5
85 years and over . . . . .	1,607	8.6	587.4	11,115	12.3	4,063.0	6.9
Under 17 years . . . . .	1,209	6.5	36.6	4,993	5.5	151.4	4.1
17–69 years . . . . .	11,567	62.0	127.8	46,974	52.1	519.0	4.1
70 years and over . . . . .	5,871	31.5	402.0	38,226	42.4	2,617.7	6.5

**Table 3. Number and rate of discharges from short-stay hospitals and days of care, with average length of stay, by sex, age, and geographic region: United States, 1997**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants]

Sex, age, and region	Discharges		Days of care		Average length of stay in days
	Number in thousands	Rate per 1,000 population	Number in thousands	Rate per 1,000 population	
Both sexes					
All ages:					
United States . . . . .	30,914	114.3	157,458	582.3	5.1
Northeast . . . . .	6,679	128.5	39,615	762.3	5.9
Midwest . . . . .	7,234	115.2	34,773	553.8	4.8
South . . . . .	11,445	120.1	58,414	612.8	5.1
West . . . . .	5,556	92.1	24,657	408.5	4.4
Under 15 years:					
United States . . . . .	2,312	38.7	9,836	164.6	4.3
Northeast . . . . .	531	49.2	2,423	224.3	4.6
Midwest . . . . .	529	38.8	2,161	158.3	4.1
South . . . . .	756	35.9	3,233	153.6	4.3
West . . . . .	494	34.7	2,018	141.7	4.1
15–44 years:					
United States . . . . .	10,030	82.5	37,160	305.5	3.7
Northeast . . . . .	2,082	90.3	9,526	413.1	4.6
Midwest . . . . .	2,215	78.7	7,774	276.3	3.5
South . . . . .	3,801	89.0	13,855	324.3	3.6
West . . . . .	1,931	69.6	6,005	216.6	3.1
45–64 years:					
United States . . . . .	6,377	115.4	33,264	601.9	5.2
Northeast . . . . .	1,427	130.9	8,423	772.5	5.9
Midwest . . . . .	1,398	108.0	6,953	536.9	5.0
South . . . . .	2,483	126.1	12,838	651.7	5.2
West . . . . .	1,069	91.2	5,050	431.1	4.7
65 years and over:					
United States . . . . .	12,196	361.1	77,198	2,285.6	6.3
Northeast . . . . .	2,638	366.3	19,243	2,671.3	7.3
Midwest . . . . .	3,091	384.0	17,885	2,221.8	5.8
South . . . . .	4,404	371.7	28,487	2,404.4	6.5
West . . . . .	2,062	309.0	11,583	1,735.6	5.6
Male					
All ages:					
United States . . . . .	12,268	92.7	67,266	508.3	5.5
Northeast . . . . .	2,806	111.4	17,500	694.7	6.2
Midwest . . . . .	2,916	95.0	15,097	491.9	5.2
South . . . . .	4,390	94.9	23,999	518.6	5.5
West . . . . .	2,156	71.4	10,670	353.6	5.0
Under 15 years:					
United States . . . . .	1,316	43.0	5,623	183.8	4.3
Northeast . . . . .	292	52.9	1,331	240.6	4.6
Midwest . . . . .	307	43.9	1,219	174.4	4.0
South . . . . .	429	39.8	1,892	175.7	4.4
West . . . . .	288	39.5	1,181	161.9	4.1
15–44 years:					
United States . . . . .	2,688	44.1	13,342	218.7	5.0
Northeast . . . . .	668	58.0	3,927	341.4	5.9
Midwest . . . . .	603	42.8	2,766	195.9	4.6
South . . . . .	977	46.2	4,546	214.8	4.7
West . . . . .	440	31.0	2,103	147.9	4.8

**Table 3. Number and rate of discharges from short-stay hospitals and days of care, with average length of stay, by sex, age, and geographic region: United States, 1997—Con.**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants]

Sex, age, and region	Discharges		Days of care		Average length of stay in days
	Number in thousands	Rate per 1,000 population	Number in thousands	Rate per 1,000 population	
Male—Continued					
45–64 years:					
United States . . . . .	3,161	117.9	16,690	622.5	5.3
Northeast . . . . .	729	139.0	4,320	823.6	5.9
Midwest . . . . .	694	110.1	3,531	560.2	5.1
South . . . . .	1,201	126.7	6,246	659.1	5.2
West . . . . .	538	92.9	2,594	448.3	4.8
65 years and over:					
United States . . . . .	5,102	366.1	31,611	2,268.0	6.2
Northeast . . . . .	1,117	383.7	7,923	2,721.5	7.1
Midwest . . . . .	1,311	399.4	7,582	2,309.0	5.8
South . . . . .	1,784	366.2	11,315	2,322.6	6.3
West . . . . .	890	309.9	4,791	1,668.6	5.4
Female					
All ages:					
United States . . . . .	18,647	135.0	90,192	653.1	4.8
Northeast . . . . .	3,873	144.6	22,114	825.9	5.7
Midwest . . . . .	4,318	134.6	19,675	613.1	4.6
South . . . . .	7,055	143.8	34,415	701.7	4.9
West . . . . .	3,400	112.7	13,987	463.4	4.1
Under 15 years:					
United States . . . . .	995	34.1	4,212	144.5	4.2
Northeast . . . . .	239	45.3	1,092	207.2	4.6
Midwest . . . . .	223	33.4	942	141.4	4.2
South . . . . .	328	31.9	1,341	130.4	4.1
West . . . . .	206	29.7	837	120.6	4.1
15–44 years:					
United States . . . . .	7,341	121.1	23,819	392.8	3.2
Northeast . . . . .	1,415	122.4	5,599	484.6	4.0
Midwest . . . . .	1,612	115.0	5,008	357.2	3.1
South . . . . .	2,824	131.0	9,309	431.7	3.3
West . . . . .	1,491	110.4	3,902	288.9	2.6
45–64 years:					
United States . . . . .	3,216	113.0	16,574	582.5	5.2
Northeast . . . . .	698	123.4	4,103	725.2	5.9
Midwest . . . . .	704	106.0	3,422	514.9	4.9
South . . . . .	1,283	125.5	6,592	644.9	5.1
West . . . . .	531	89.6	2,456	414.3	4.6
65 years and over:					
United States . . . . .	7,094	357.6	45,587	2,298.1	6.4
Northeast . . . . .	1,522	354.5	11,320	2,637.3	7.4
Midwest . . . . .	1,780	373.4	10,303	2,161.6	5.8
South . . . . .	2,620	375.6	17,172	2,461.5	6.6
West . . . . .	1,172	308.3	6,792	1,786.2	5.8

**Table 4. Number of deaths and fatality rate for discharges from short-stay hospitals by sex and age: United States, 1997**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants]

Age	Both sexes			Both sexes		
	Male	Female	Both sexes	Male	Female	Both sexes
	Number in thousands			Rate per 100 discharges		
All ages . . . . .	783	388	395	2.5	3.2	2.1
Under 65 years . . . . .	187	101	86	1.0	1.4	0.7
Under 15 years . . . . .	13	7	6	0.6	0.5	0.6
15–44 years . . . . .	49	28	21	0.5	1.0	0.3
45–64 years . . . . .	125	66	59	2.0	2.1	1.8
65 years and over . . . . .	596	287	309	4.9	5.6	4.4
65–74 years . . . . .	175	94	81	3.6	4.2	3.1
75–84 years . . . . .	244	127	117	4.9	6.0	4.1
85 years and over . . . . .	177	66	111	7.5	8.8	6.9

**Table 5. Number and rate of discharges from short-stay hospitals and of days of care, with average length of stay, by selected first-listed diagnostic categories: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD–9–CM)*]

Diagnostic category and ICD–9–CM code	Discharges		Days of care		Average length of stay in days
	Number in thousands	Rate per 10,000 population	Number in thousands	Rate per 10,000 population	
All conditions <sup>1</sup> . . . . .	30,914	1,143.1	157,458	5,822.5	5.1
Heart disease . . . . . 391–392.0,393–398,402,404,410–416,420–429	4,188	154.9	21,533	796.3	5.1
Acute myocardial infarction . . . . . 410	756	28.0	4,566	168.8	6.0
Coronary atherosclerosis . . . . . 414.0	1,009	37.3	4,579	169.3	4.5
Other ischemic heart disease . . . . . 411–413,414.1–414.9	325	12.0	1,021	37.7	3.1
Cardiac dysrhythmias . . . . . 427	635	23.5	2,662	98.5	4.2
Congestive heart failure . . . . . 428.0	957	35.4	5,572	206.0	5.8
Females with deliveries . . . . . V27	3,808	140.8	9,227	341.2	2.4
Malignant neoplasms . . . . . 140–208,230–234	1,336	49.4	9,376	346.7	7.0
Malignant neoplasm of large intestine and rectum . . . . . 153–154,197.5	149	5.5	1,390	51.4	9.3
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	193	7.1	1,477	54.6	7.7
Malignant neoplasm of breast . . . . . 174–175,198.81	112	4.1	339	12.5	3.0
Pneumonia . . . . . 480–486	1,304	48.2	8,289	306.5	6.4
Psychoses . . . . . 290–299	1,221	45.1	11,077	409.6	9.1
Cerebrovascular disease . . . . . 430–438	1,018	37.6	5,853	216.4	5.8
Fractures, all sites <sup>2</sup> . . . . . 800–829	1,008	37.3	5,786	214.0	5.7
Fracture of neck of femur <sup>2</sup> . . . . . 820	326	12.0	2,393	88.5	7.3
Diabetes mellitus . . . . . 250	507	18.8	2,937	108.6	5.8
Asthma . . . . . 493	484	17.9	1,630	60.3	3.4
Chronic bronchitis . . . . . 491	448	16.6	2,422	89.6	5.4
Volume depletion . . . . . 276.5	420	15.5	1,840	68.0	4.4
Osteoarthritis and allied disorders . . . . . 715	410	15.2	2,150	79.5	5.2
Cholelithiasis . . . . . 574	393	14.5	1,574	58.2	4.0
Benign neoplasms . . . . . 210–229	370	13.7	1,281	47.4	3.5
Septicemia . . . . . 038	352	13.0	2,835	104.8	8.1
Cellulitis and abscess . . . . . 681–682	323	12.0	1,722	63.7	5.3
Intervertebral disc disorder . . . . . 722	311	11.5	865	32.0	2.8

<sup>1</sup>Includes data for diagnostic conditions not shown in table.<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.



**Table 6. Number and rate of discharges from short-stay hospitals, with average length of stay, for patients 65 years of age and over by age and selected first-listed diagnostic categories: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Diagnostic category and ICD-9-CM code	65 years and over	65-74 years	75-84 years	85 years and over
		Discharges in thousands		
All conditions <sup>1</sup>	12,196	4,872	4,965	2,359
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	2,709	1,126	1,111	472
Acute myocardial infarction . . . . . 410	451	198	182	70
Coronary atherosclerosis . . . . . 414.0	577	318	216	43
Other ischemic heart disease . . . . . 411-413,414.1-414.9	169	77	71	22
Cardiac dysrhythmias . . . . . 427	441	163	194	83
Congestive heart failure . . . . . 428.0	754	241	310	203
Pneumonia . . . . . 480-486	787	231	333	223
Cerebrovascular disease . . . . . 430-438	772	289	331	152
Malignant neoplasms . . . . . 140-208,230-234	756	378	286	91
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	106	41	47	19
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	124	65	50	*9
Fractures, all sites <sup>2</sup> . . . . . 800-829	527	120	222	185
Fracture of neck of femur <sup>2</sup> . . . . . 820	297	42	136	119
Chronic bronchitis . . . . . 491	301	146	115	39
Osteoarthritis and allied disorders . . . . . 715	284	159	106	19
Psychoses . . . . . 290-299	247	99	108	40
Septicemia . . . . . 038	231	74	91	67
Volume depletion . . . . . 276.5	223	56	95	71
Diabetes mellitus . . . . . 250	199	101	73	25
Cholelithiasis . . . . . 574	150	70	59	21
Diverticula of intestine . . . . . 562	144	52	59	33
Cellulitis and abscess . . . . . 681-682	118	48	46	24
		Discharge rate per 10,000 population		
All conditions <sup>1</sup>	3,610.9	2,658.7	4,277.8	6,136.3
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	802.2	614.3	957.5	1,228.7
Acute myocardial infarction . . . . . 410	133.5	108.2	157.1	182.8
Coronary atherosclerosis . . . . . 414.0	170.8	173.7	186.0	111.1
Other ischemic heart disease . . . . . 411-413,414.1-414.9	50.1	41.8	61.1	56.0
Cardiac dysrhythmias . . . . . 427	130.6	89.0	167.5	217.1
Congestive heart failure . . . . . 428.0	223.2	131.8	267.0	526.9
Pneumonia . . . . . 480-486	233.1	126.0	287.1	581.0
Cerebrovascular disease . . . . . 430-438	228.6	157.9	285.0	395.5
Malignant neoplasms . . . . . 140-208,230-234	223.8	206.3	246.7	237.9
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	31.4	22.1	40.3	48.6
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	36.6	35.7	42.8	*22.5
Fractures, all sites <sup>2</sup> . . . . . 800-829	156.1	65.7	191.4	480.3
Fracture of neck of femur <sup>2</sup> . . . . . 820	87.9	22.9	117.1	309.2
Chronic bronchitis . . . . . 491	89.1	79.9	99.4	101.8
Osteoarthritis and allied disorders . . . . . 715	84.1	86.9	91.4	48.5
Psychoses . . . . . 290-299	73.0	54.0	92.9	103.4
Septicemia . . . . . 038	68.5	40.2	78.0	174.8
Volume depletion . . . . . 276.5	66.0	30.8	81.8	185.7
Diabetes mellitus . . . . . 250	59.0	55.3	62.9	65.0
Cholelithiasis . . . . . 574	44.5	38.3	50.7	55.7
Diverticula of intestine . . . . . 562	42.5	28.3	50.9	85.2
Cellulitis and abscess . . . . . 681-682	35.1	26.0	39.9	63.3

See footnotes at end of table.

**Table 6. Number and rate of discharges from short-stay hospitals, with average length of stay, for patients 65 years of age and over by age and selected first-listed diagnostic categories: United States, 1997—Con.**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Diagnostic category and ICD-9-CM code	65 years and over	65-74 years	75-84 years	85 years and over	Average length of stay in days			
All conditions <sup>1</sup> . . . . .	6.3	6.0	6.4	6.7				
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	5.5	5.2	5.4	6.5				
Acute myocardial infarction . . . . . 410	6.6	6.4	6.3	8.1				
Coronary atherosclerosis . . . . . 414.0	5.1	4.6	4.8	10.1				
Other ischemic heart disease . . . . . 411-413,414.1-414.9	3.7	3.4	3.6	5.0				
Cardiac dysrhythmias . . . . . 427	4.4	3.9	4.3	5.8				
Congestive heart failure . . . . . 428.0	5.9	6.0	5.9	5.9				
Pneumonia . . . . . 480-486	7.2	7.6	7.2	6.8				
Cerebrovascular disease . . . . . 430-438	5.8	5.5	5.7	6.3				
Malignant neoplasms . . . . . 140-208,230-234	7.4	7.2	7.7	7.1				
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	9.7	9.0	9.5	11.4				
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	7.7	8.3	7.5	*5.4				
Fractures, all sites <sup>2</sup> . . . . . 800-829	6.7	5.9	7.1	6.8				
Fracture of neck of femur <sup>2</sup> . . . . . 820	7.4	7.0	7.5	7.4				
Chronic bronchitis . . . . . 491	5.7	5.7	5.8	5.4				
Osteoarthritis and allied disorders . . . . . 715	5.5	4.7	4.9	15.0				
Psychoses . . . . . 290-299	11.3	11.3	11.8	10.0				
Septicemia . . . . . 038	8.3	8.2	8.3	8.3				
Volume depletion . . . . . 276.5	5.5	4.9	5.3	6.1				
Diabetes mellitus . . . . . 250	7.2	7.3	7.4	6.5				
Cholelithiasis . . . . . 574	5.2	4.6	5.5	6.5				
Diverticula of intestine . . . . . 562	5.9	5.3	6.3	6.0				
Cellulitis and abscess . . . . . 681-682	6.7	6.5	6.6	7.4				

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>Includes data for diagnostic conditions not shown in table.<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 7. Number of discharges from short-stay hospitals by age and first-listed diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	All ages	Under 15 years	15-44 years	45-64 years	65 years and over
	Number in thousands				
All conditions . . . . .	30,914	2,312	10,030	6,377	12,196
Infectious and parasitic diseases . . . . . 001-139	853	179	199	139	337
Septicemia . . . . . 038	352	21	38	62	231
Neoplasms . . . . . 140-239	1,749	47	279	585	838
Malignant neoplasms . . . . . 140-208,230-234	1,336	37	122	420	756
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	149	*	*5	38	106
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	193	*	8	59	124
Malignant neoplasm of breast . . . . . 174-175,198.81	112	*	15	42	54
Benign neoplasms . . . . . 210-229	370	7	150	152	61
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	1,299	127	244	333	593
Diabetes mellitus . . . . . 250	507	15	120	173	199
Volume depletion . . . . . 276.5	420	91	52	54	223
Diseases of the blood and blood-forming organs . . . . . 280-289	373	64	96	67	145
Mental disorders . . . . . 290-319	1,964	91	1,120	440	313
Psychoses . . . . . 290-299	1,221	43	648	283	247
Alcohol dependence syndrome . . . . . 303	192	*	118	60	13
Diseases of the nervous system and sense organs . . . . . 320-389	554	90	131	115	218
Diseases of the circulatory system . . . . . 390-459	6,097	32	413	1,666	3,986
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	4,188	21	249	1,209	2,709
Acute myocardial infarction . . . . . 410	756	*	44	260	451
Coronary atherosclerosis . . . . . 414.0	1,009	*	44	387	577
Other ischemic heart disease . . . . . 411-413,414.1-414.9	325	*	28	127	169
Cardiac dysrhythmias . . . . . 427	635	9	45	140	441
Congestive heart failure . . . . . 428.0	957	*	28	173	754
Cerebrovascular disease . . . . . 430-438	1,018	*	40	201	772
Diseases of the respiratory system . . . . . 460-519	3,475	732	423	603	1,716
Acute bronchitis and bronchiolitis . . . . . 466	271	190	17	18	46
Pneumonia . . . . . 480-486	1,304	201	130	185	787
Chronic bronchitis . . . . . 491	448	*	19	126	301
Asthma . . . . . 493	484	214	117	88	65
Diseases of the digestive system . . . . . 520-579	2,998	224	765	777	1,231
Appendicitis . . . . . 540-543	232	63	126	29	14
Noninfectious enteritis and colitis . . . . . 555-558	281	67	84	47	83
Diverticula of intestine . . . . . 562	233	*	20	69	144
Cholelithiasis . . . . . 574	393	*	132	108	150
Diseases of the genitourinary system . . . . . 580-629	1,694	71	573	393	657
Calculus of kidney and ureter . . . . . 592	166	*	81	54	30
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	500	*	497	*	...
Diseases of the skin and subcutaneous tissue . . . . . 680-709	454	38	117	116	182
Cellulitis and abscess . . . . . 681-682	323	25	90	89	118
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	1,500	38	342	452	668
Osteoarthritis and allied disorders . . . . . 715	410	*	12	113	284
Intervertebral disc disorders . . . . . 722	311	*	143	121	46
Congenital anomalies . . . . . 740-759	155	110	24	15	*7
Certain conditions originating in the perinatal period . . . . . 760-779	138	135	*	*	*
Symptoms, signs, and ill-defined conditions . . . . . 780-799	274	53	99	65	57
Injury and poisoning . . . . . 800-999	2,520	213	821	490	996
Fractures, all sites <sup>2</sup> . . . . . 800-829	1,008	72	268	141	527
Fracture of neck of femur <sup>2</sup> . . . . . 820	326	*	*7	18	297
Poisonings . . . . . 960-989	197	22	119	33	22
Supplementary classifications . . . . . V01-V82	4,318	63	3,884	120	250
Females with deliveries . . . . . V27	3,808	12	3,791	*4	...

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 8. Rate of discharges from short-stay hospitals by age and first-listed diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	All ages	Under 15 years	15-44 years	45-64 years	65 years and over
All conditions . . . . .	1,143.1	386.9	824.5	1,153.9	3,610.9
Infectious and parasitic diseases . . . . . 001-139	31.6	30.0	16.3	25.1	99.7
Septicemia . . . . . 038	13.0	3.5	3.1	11.2	68.5
Neoplasms . . . . . 140-239	64.7	7.9	22.9	105.8	248.1
Malignant neoplasms . . . . . 140-208,230-234	49.4	6.3	10.0	76.1	223.8
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	5.5	*	*0.4	6.9	31.4
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	7.1	*	0.7	10.7	36.6
Malignant neoplasm of breast . . . . . 174-175,198.81	4.1	*	1.3	7.6	16.1
Benign neoplasms . . . . . 210-229	13.7	1.1	12.3	27.5	18.1
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	48.0	21.3	20.1	60.3	175.7
Diabetes mellitus . . . . . 250	18.8	2.6	9.8	31.3	59.0
Volume depletion . . . . . 276.5	15.5	15.2	4.3	9.8	66.0
Diseases of the blood and blood-forming organs . . . . . 280-289	13.8	10.7	7.9	12.1	43.0
Mental disorders . . . . . 290-319	72.6	15.2	92.1	79.5	92.8
Psychoses . . . . . 290-299	45.1	7.1	53.3	51.2	73.0
Alcohol dependence syndrome . . . . . 303	7.1	*	9.7	10.8	3.9
Diseases of the nervous system and sense organs . . . . . 320-389	20.5	15.1	10.8	20.8	64.5
Diseases of the circulatory system . . . . . 390-459	225.5	5.4	34.0	301.4	1,180.2
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	154.9	3.5	20.4	218.7	802.2
Acute myocardial infarction . . . . . 410	28.0	*	3.6	47.1	133.5
Coronary atherosclerosis . . . . . 414.0	37.3	*	3.7	70.1	170.8
Other ischemic heart disease . . . . . 411-413,414.1-414.9	12.0	*	2.3	22.9	50.1
Cardiac dysrhythmias . . . . . 427	23.5	1.4	3.7	25.4	130.6
Congestive heart failure . . . . . 428.0	35.4	*	2.3	31.3	223.2
Cerebrovascular disease . . . . . 430-438	37.6	*	3.3	36.5	228.6
Diseases of the respiratory system . . . . . 460-519	128.5	122.6	34.8	109.1	508.1
Acute bronchitis and bronchiolitis . . . . . 466	10.0	31.7	1.4	3.3	13.7
Pneumonia . . . . . 480-486	48.2	33.7	10.7	33.4	233.1
Chronic bronchitis . . . . . 491	16.6	*	1.5	22.7	89.1
Asthma . . . . . 493	17.9	35.8	9.6	15.9	19.2
Diseases of the digestive system . . . . . 520-579	110.9	37.5	62.9	140.6	364.6
Appendicitis . . . . . 540-543	8.6	10.5	10.4	5.3	4.3
Noninfectious enteritis and colitis . . . . . 555-558	10.4	11.2	6.9	8.5	24.7
Diverticula of intestine . . . . . 562	8.6	*	1.6	12.5	42.5
Cholelithiasis . . . . . 574	14.5	*	10.8	19.5	44.5
Diseases of the genitourinary system . . . . . 580-629	62.6	11.9	47.1	71.1	194.6
Calculus of kidney and ureter . . . . . 592	6.1	*	6.6	9.8	9.0
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	18.5	*	40.9	*	...
Diseases of the skin and subcutaneous tissue . . . . . 680-709	16.8	6.4	9.6	21.1	53.8
Cellulitis and abscess . . . . . 681-682	12.0	4.2	7.4	16.1	35.1
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	55.5	6.3	28.1	81.8	197.7
Osteoarthritis and allied disorders . . . . . 715	15.2	*	1.0	20.5	84.1
Intervertebral disc disorders . . . . . 722	11.5	*	11.7	21.9	13.7
Congenital anomalies . . . . . 740-759	5.7	18.4	1.9	2.6	*2.1
Certain conditions originating in the perinatal period . . . . . 760-779	5.1	22.7	*	*	*
Symptoms, signs, and ill-defined conditions . . . . . 780-799	10.1	8.9	8.1	11.8	16.8
Injury and poisoning . . . . . 800-999	93.2	35.7	67.5	88.7	294.8
Fractures, all sites <sup>2</sup> . . . . . 800-829	37.3	12.0	22.0	25.6	156.1
Fracture of neck of femur <sup>2</sup> . . . . . 820	12.0	*	*0.6	3.3	87.9
Poisonings . . . . . 960-989	7.3	3.7	9.8	6.0	6.6
Supplementary classifications . . . . . V01-V82	159.7	10.6	319.3	21.7	74.1
Females with deliveries . . . . . V27	140.8	2.0	311.7	*0.8	...

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 9. Average length of stay for discharges from short-stay hospitals by age and first-listed diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	All ages	Under 15 years	15-44 years	45-64 years	65 years and over
All conditions . . . . .	5.1	4.3	3.7	5.2	6.3
Infectious and parasitic diseases . . . . . 001-139	6.6	3.3	6.3	7.9	7.9
Septicemia . . . . . 038	8.1	5.2	7.5	8.6	8.3
Neoplasms . . . . . 140-239	6.2	6.4	4.5	5.7	7.2
Malignant neoplasms . . . . . 140-208,230-234	7.0	6.8	6.3	6.6	7.4
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	9.3	*	*8.1	8.6	9.7
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	7.7	*	5.5	7.8	7.7
Malignant neoplasm of breast . . . . . 174-175,198.81	3.0	*	3.0	3.5	2.7
Benign neoplasms . . . . . 210-229	3.5	4.9	2.9	3.2	5.3
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	5.1	3.0	4.1	4.8	6.1
Diabetes mellitus . . . . . 250	5.8	4.0	3.7	5.7	7.2
Volume depletion . . . . . 276.5	4.4	2.3	3.3	4.5	5.5
Diseases of the blood and blood-forming organs . . . . . 280-289	5.2	3.7	5.8	4.5	5.7
Mental disorders . . . . . 290-319	8.0	10.8	6.8	8.5	10.4
Psychoses . . . . . 290-299	9.1	10.2	7.8	9.9	11.3
Alcohol dependence syndrome . . . . . 303	6.6	*	5.8	7.8	8.7
Diseases of the nervous system and sense organs . . . . . 320-389	5.7	3.7	4.8	5.6	7.0
Diseases of the circulatory system . . . . . 390-459	5.3	4.4	4.6	4.7	5.7
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	5.1	4.5	4.5	4.5	5.5
Acute myocardial infarction . . . . . 410	6.0	*	4.1	5.4	6.6
Coronary atherosclerosis . . . . . 414.0	4.5	*	3.2	3.9	5.1
Other ischemic heart disease . . . . . 411-413,414.1-414.9	3.1	*	2.2	2.6	3.7
Cardiac dysrhythmias . . . . . 427	4.2	3.4	2.9	3.9	4.4
Congestive heart failure . . . . . 428.0	5.8	*	5.8	5.4	5.9
Cerebrovascular disease . . . . . 430-438	5.8	*4.4	6.5	5.6	5.8
Diseases of the respiratory system . . . . . 460-519	5.6	3.1	4.3	5.8	7.0
Acute bronchitis and bronchiolitis . . . . . 466	3.5	3.2	2.8	3.9	4.7
Pneumonia . . . . . 480-486	6.4	3.7	5.7	6.1	7.2
Chronic bronchitis . . . . . 491	5.4	*	4.6	4.9	5.7
Asthma . . . . . 493	3.4	2.4	3.1	4.7	5.2
Diseases of the digestive system . . . . . 520-579	4.9	3.3	4.1	4.8	5.7
Appendicitis . . . . . 540-543	3.8	3.6	2.9	4.7	9.7
Noninfectious enteritis and colitis . . . . . 555-558	4.3	2.3	4.0	5.1	5.8
Diverticula of intestine . . . . . 562	5.6	*	5.2	5.2	5.9
Cholelithiasis . . . . . 574	4.0	*	3.2	3.3	5.2
Diseases of the genitourinary system . . . . . 580-629	4.0	3.7	2.9	3.6	5.2
Calculus of kidney and ureter . . . . . 592	2.2	*	2.0	2.2	2.8
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	2.5	*	2.5	*	...
Diseases of the skin and subcutaneous tissue . . . . . 680-709	5.8	3.6	4.2	5.6	7.5
Cellulitis and abscess . . . . . 681-682	5.3	3.6	4.1	5.2	6.7
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	4.5	4.1	3.3	3.9	5.6
Osteoarthritis and allied disorders . . . . . 715	5.2	*	3.0	4.9	5.5
Intervertebral disc disorders . . . . . 722	2.8	*	2.4	2.6	4.7
Congenital anomalies . . . . . 740-759	5.7	6.1	3.5	5.3	*6.0
Certain conditions originating in the perinatal period . . . . . 760-779	9.7	9.8	*	*	*
Symptoms, signs, and ill-defined conditions . . . . . 780-799	2.7	2.2	2.2	2.8	4.0
Injury and poisoning . . . . . 800-999	5.2	4.0	4.2	5.3	6.3
Fractures, all sites <sup>2</sup> . . . . . 800-829	5.7	4.4	4.5	5.2	6.7
Fracture of neck of femur <sup>2</sup> . . . . . 820	7.3	*	*6.2	7.2	7.4
Poisonings . . . . . 960-989	2.8	1.8	2.4	3.9	4.4
Supplementary classifications . . . . . V01-V82	3.1	5.1	2.5	6.6	10.5
Females with deliveries . . . . . V27	2.4	*	2.4	*	...

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 10. Number of discharges from short-stay hospitals, by sex and first-listed diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	Both sexes	Male	Female
	Number in thousands		
All conditions . . . . .	30,914	12,268	18,647
Infectious and parasitic diseases . . . . . 001-139	853	408	445
Septicemia . . . . . 038	352	154	198
Neoplasms . . . . . 140-239	1,749	685	1,063
Malignant neoplasms . . . . . 140-208,230-234	1,336	620	715
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	149	71	78
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	193	115	78
Malignant neoplasm of breast . . . . . 174-175,198.81	112	*	111
Benign neoplasms . . . . . 210-229	370	44	325
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	1,299	551	748
Diabetes mellitus . . . . . 250	507	243	264
Volume depletion . . . . . 276.5	420	177	243
Diseases of the blood and blood-forming organs . . . . . 280-289	373	155	218
Mental disorders . . . . . 290-319	1,964	981	983
Psychoses . . . . . 290-299	1,221	552	668
Alcohol dependence syndrome . . . . . 303	192	137	54
Diseases of the nervous system and sense organs . . . . . 320-389	554	255	299
Diseases of the circulatory system . . . . . 390-459	6,097	3,091	3,006
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	4,188	2,212	1,976
Acute myocardial infarction . . . . . 410	756	456	300
Coronary atherosclerosis . . . . . 414.0	1,009	625	384
Other ischemic heart disease . . . . . 411-413,414.1-414.9	325	168	157
Cardiac dysrhythmias . . . . . 427	635	306	328
Congestive heart failure . . . . . 428.0	957	431	526
Cerebrovascular disease . . . . . 430-438	1,018	462	556
Diseases of the respiratory system . . . . . 460-519	3,475	1,664	1,811
Acute bronchitis and bronchiolitis . . . . . 466	271	148	123
Pneumonia . . . . . 480-486	1,304	638	666
Chronic bronchitis . . . . . 491	448	181	266
Asthma . . . . . 493	484	204	279
Diseases of the digestive system . . . . . 520-579	2,998	1,306	1,692
Appendicitis . . . . . 540-543	232	136	96
Noninfectious enteritis and colitis . . . . . 555-558	281	110	171
Diverticula of intestine . . . . . 562	233	96	136
Cholelithiasis . . . . . 574	393	117	276
Diseases of the genitourinary system . . . . . 580-629	1,694	540	1,154
Calculus of kidney and ureter . . . . . 592	166	97	69
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	500	...	500
Diseases of the skin and subcutaneous tissue . . . . . 680-709	454	230	224
Cellulitis and abscess . . . . . 681-682	323	170	154
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	1,500	655	845
Osteoarthritis and allied disorders . . . . . 715	410	147	263
Intervertebral disc disorders . . . . . 722	311	167	143
Congenital anomalies . . . . . 740-759	155	81	74
Certain conditions originating in the perinatal period . . . . . 760-779	138	81	57
Symptoms, signs, and ill-defined conditions . . . . . 780-799	274	131	144
Injury and poisoning . . . . . 800-999	2,520	1,233	1,287
Fractures, all sites <sup>2</sup> . . . . . 800-829	1,008	434	574
Fracture of neck of femur <sup>2</sup> . . . . . 820	326	86	240
Poisonings . . . . . 960-989	197	79	117
Supplementary classifications . . . . . V01-V82	4,318	222	4,096
Females with deliveries . . . . . V27	3,808	...	3,808

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 11. Rate of discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	Both sexes	Rate per 10,000 population	
		Male	Female
All conditions . . . . .	1,143.1	927.0	1,350.2
Infectious and parasitic diseases . . . . . 001-139	31.6	30.9	32.2
Septicemia . . . . . 038	13.0	11.7	14.3
Neoplasms . . . . . 140-239	64.7	51.8	77.0
Malignant neoplasms . . . . . 140-208,230-234	49.4	46.9	51.8
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	5.5	5.4	5.6
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	7.1	8.7	5.6
Malignant neoplasm of breast . . . . . 174-175,198.81	4.1	*	8.0
Benign neoplasms . . . . . 210-229	13.7	3.4	23.5
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	48.0	41.6	54.2
Diabetes mellitus . . . . . 250	18.8	18.4	19.1
Volume depletion . . . . . 276.5	15.5	13.4	17.6
Diseases of the blood and blood-forming organs . . . . . 280-289	13.8	11.7	15.8
Mental disorders . . . . . 290-319	72.6	74.1	71.2
Psychoses . . . . . 290-299	45.1	41.7	48.4
Alcohol dependence syndrome . . . . . 303	7.1	10.4	3.9
Diseases of the nervous system and sense organs . . . . . 320-389	20.5	19.3	21.6
Diseases of the circulatory system . . . . . 390-459	225.5	233.6	217.7
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	154.9	167.1	143.1
Acute myocardial infarction . . . . . 410	28.0	34.5	21.7
Coronary atherosclerosis . . . . . 414.0	37.3	47.3	27.8
Other ischemic heart disease . . . . . 411-413,414.1-414.9	12.0	12.7	11.4
Cardiac dysrhythmias . . . . . 427	23.5	23.1	23.8
Congestive heart failure . . . . . 428.0	35.4	32.6	38.1
Cerebrovascular disease . . . . . 430-438	37.6	34.9	40.3
Diseases of the respiratory system . . . . . 460-519	128.5	125.7	131.1
Acute bronchitis and bronchiolitis . . . . . 466	10.0	11.2	8.9
Pneumonia . . . . . 480-486	48.2	48.2	48.2
Chronic bronchitis . . . . . 491	16.6	13.7	19.3
Asthma . . . . . 493	17.9	15.4	20.2
Diseases of the digestive system . . . . . 520-579	110.9	98.7	122.5
Appendicitis . . . . . 540-543	8.6	10.3	7.0
Noninfectious enteritis and colitis . . . . . 555-558	10.4	8.3	12.4
Diverticula of intestine . . . . . 562	8.6	7.3	9.9
Cholelithiasis . . . . . 574	14.5	8.9	20.0
Diseases of the genitourinary system . . . . . 580-629	62.6	40.8	83.6
Calculus of kidney and ureter . . . . . 592	6.1	7.3	5.0
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	18.5	...	36.2
Diseases of the skin and subcutaneous tissue . . . . . 680-709	16.8	17.4	16.2
Cellulitis and abscess . . . . . 681-682	12.0	12.8	11.1
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	55.5	49.5	61.2
Osteoarthritis and allied disorders . . . . . 715	15.2	11.1	19.0
Intervertebral disc disorders . . . . . 722	11.5	12.6	10.4
Congenital anomalies . . . . . 740-759	5.7	6.1	5.4
Certain conditions originating in the perinatal period . . . . . 760-779	5.1	6.1	4.1
Symptoms, signs, and ill-defined conditions . . . . . 780-799	10.1	9.9	10.4
Injury and poisoning . . . . . 800-999	93.2	93.2	93.2
Fractures, all sites <sup>2</sup> . . . . . 800-829	37.3	32.8	41.6
Fracture of neck of femur <sup>2</sup> . . . . . 820	12.0	6.5	17.4
Poisonings . . . . . 960-989	7.3	6.0	8.5
Supplementary classifications . . . . . V01-V82	159.7	16.7	296.6
Females with deliveries . . . . . V27	140.8	...	275.7

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.



**Table 12. Average length of stay for discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	Both sexes	Male	Female
	Average length of stay in days		
All conditions . . . . .	5.1	5.5	4.8
Infectious and parasitic diseases . . . . . 001-139	6.6	6.6	6.6
Septicemia . . . . . 038	8.1	7.8	8.2
Neoplasms . . . . . 140-239	6.2	6.8	5.8
Malignant neoplasms . . . . . 140-208,230-234	7.0	7.0	7.0
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	9.3	9.5	9.2
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	7.7	7.5	7.9
Malignant neoplasm of breast . . . . . 174-175,198.81	3.0	*	3.0
Benign neoplasms . . . . . 210-229	3.5	5.1	3.2
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	5.1	5.3	4.9
Diabetes mellitus . . . . . 250	5.8	5.9	5.7
Volume depletion . . . . . 276.5	4.4	4.2	4.5
Diseases of the blood and blood-forming organs . . . . . 280-289	5.2	4.8	5.4
Mental disorders . . . . . 290-319	8.0	7.6	8.3
Psychoses . . . . . 290-299	9.1	8.8	9.3
Alcohol dependence syndrome . . . . . 303	6.6	6.3	7.6
Diseases of the nervous system and sense organs . . . . . 320-389	5.7	5.8	5.6
Diseases of the circulatory system . . . . . 390-459	5.3	5.1	5.6
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	5.1	4.9	5.5
Acute myocardial infarction . . . . . 410	6.0	5.6	6.6
Coronary atherosclerosis . . . . . 414.0	4.5	4.2	5.0
Other ischemic heart disease . . . . . 411-413,414.1-414.9	3.1	2.9	3.4
Cardiac dysrhythmias . . . . . 427	4.2	4.1	4.3
Congestive heart failure . . . . . 428.0	5.8	5.7	5.9
Cerebrovascular disease . . . . . 430-438	5.8	5.5	6.0
Diseases of the respiratory system . . . . . 460-519	5.6	5.5	5.8
Acute bronchitis and bronchiolitis . . . . . 466	3.5	3.2	3.8
Pneumonia . . . . . 480-486	6.4	6.2	6.5
Chronic bronchitis . . . . . 491	5.4	5.4	5.4
Asthma . . . . . 493	3.4	3.0	3.7
Diseases of the digestive system . . . . . 520-579	4.9	5.0	4.8
Appendicitis . . . . . 540-543	3.8	3.8	3.7
Noninfectious enteritis and colitis . . . . . 555-558	4.3	4.2	4.4
Diverticula of intestine . . . . . 562	5.6	5.4	5.8
Cholelithiasis . . . . . 574	4.0	4.9	3.6
Diseases of the genitourinary system . . . . . 580-629	4.0	4.3	3.8
Calculus of kidney and ureter . . . . . 592	2.2	2.2	2.3
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	2.5	...	2.5
Diseases of the skin and subcutaneous tissue . . . . . 680-709	5.8	5.7	5.9
Cellulitis and abscess . . . . . 681-682	5.3	5.2	5.5
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	4.5	4.0	4.9
Osteoarthritis and allied disorders . . . . . 715	5.2	4.4	5.7
Intervertebral disc disorders . . . . . 722	2.8	2.6	3.0
Congenital anomalies . . . . . 740-759	5.7	5.2	6.1
Certain conditions originating in the perinatal period . . . . . 760-779	9.7	9.6	9.8
Symptoms, signs, and ill-defined conditions . . . . . 780-799	2.7	2.5	3.0
Injury and poisoning . . . . . 800-999	5.2	5.0	5.5
Fractures, all sites <sup>2</sup> . . . . . 800-829	5.7	5.2	6.1
Fracture of neck of femur <sup>2</sup> . . . . . 820	7.3	7.8	7.2
Poisonings . . . . . 960-989	2.8	3.2	2.5
Supplementary classifications . . . . . V01-V82	3.1	8.6	2.8
Females with deliveries . . . . . V27	2.4	...	2.4

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.



**Table 13. Number of discharges from short-stay hospitals by geographic region and first-listed diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	United States	Northeast	Midwest	South	West
	Number in thousands				
All conditions . . . . .	30,914	6,679	7,234	11,445	5,556
Infectious and parasitic diseases . . . . . 001-139	853	196	193	321	144
Septicemia . . . . . 038	352	72	90	130	60
Neoplasms . . . . . 140-239	1,749	425	376	621	327
Malignant neoplasms . . . . . 140-208,230-234	1,336	335	291	461	249
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	149	35	39	46	29
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	193	43	40	82	28
Malignant neoplasm of breast . . . . . 174-175,198.81	112	28	22	42	19
Benign neoplasms . . . . . 210-229	370	79	74	147	70
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	1,299	279	306	508	205
Diabetes mellitus . . . . . 250	507	106	111	204	87
Volume depletion . . . . . 276.5	420	92	105	165	58
Diseases of the blood and blood-forming organs . . . . . 280-289	373	96	79	143	54
Mental disorders . . . . . 290-319	1,964	604	486	698	176
Psychoses . . . . . 290-299	1,221	374	308	430	109
Alcohol dependence syndrome . . . . . 303	192	46	*	*	*
Diseases of the nervous system and sense organs . . . . . 320-389	554	145	125	191	93
Diseases of the circulatory system . . . . . 390-459	6,097	1,374	1,456	2,288	980
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	4,188	980	1,033	1,489	687
Acute myocardial infarction . . . . . 410	756	166	181	256	154
Coronary atherosclerosis . . . . . 414.0	1,009	239	255	354	161
Other ischemic heart disease . . . . . 411-413,414.1-414.9	325	92	65	118	51
Cardiac dysrhythmias . . . . . 427	635	163	157	224	91
Congestive heart failure . . . . . 428.0	957	206	258	366	127
Cerebrovascular disease . . . . . 430-438	1,018	196	236	422	164
Diseases of the respiratory system . . . . . 460-519	3,475	674	820	1,405	576
Acute bronchitis and bronchiolitis . . . . . 466	271	40	58	121	52
Pneumonia . . . . . 480-486	1,304	217	308	546	232
Chronic bronchitis . . . . . 491	448	84	113	193	58
Asthma . . . . . 493	484	124	120	170	70
Diseases of the digestive system . . . . . 520-579	2,998	639	691	1,101	567
Appendicitis . . . . . 540-543	232	44	61	67	61
Noninfectious enteritis and colitis . . . . . 555-558	281	59	66	115	41
Diverticula of intestine . . . . . 562	233	55	53	82	42
Cholelithiasis . . . . . 574	393	105	85	125	78
Diseases of the genitourinary system . . . . . 580-629	1,694	324	403	672	295
Calculus of kidney and ureter . . . . . 592	166	37	44	67	18
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	500	100	109	193	98
Diseases of the skin and subcutaneous tissue . . . . . 680-709	454	98	115	161	79
Cellulitis and abscess . . . . . 681-682	323	70	81	115	58
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	1,500	315	364	544	277
Osteoarthritis and allied disorders . . . . . 715	410	88	112	136	74
Intervertebral disc disorders . . . . . 722	311	53	79	125	54
Congenital anomalies . . . . . 740-759	155	53	*	36	39
Certain conditions originating in the perinatal period . . . . . 760-779	138	24	*	39	38
Symptoms, signs, and ill-defined conditions . . . . . 780-799	274	60	47	117	50
Injury and poisoning . . . . . 800-999	2,520	523	575	889	534
Fractures, all sites <sup>2</sup> . . . . . 800-829	1,008	191	231	368	218
Fracture of neck of femur <sup>2</sup> . . . . . 820	326	58	77	124	66
Poisonings . . . . . 960-989	197	40	49	61	46
Supplementary classifications . . . . . V01-V82	4,318	750	1,025	1,517	1,025
Females with deliveries . . . . . V27	3,808	621	830	1,407	949

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 14. Rate of discharges from short-stay hospitals by geographic region and first-listed diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	United States	Northeast	Midwest	South	West
All conditions . . . . .	1,143.1	1,285.2	1,152.2	1,200.7	920.5
Infectious and parasitic diseases . . . . . 001-139	31.6	37.7	30.7	33.6	23.9
Septicemia . . . . . 038	13.0	13.8	14.4	13.7	9.9
Neoplasms . . . . . 140-239	64.7	81.8	59.8	65.2	54.1
Malignant neoplasms . . . . . 140-208,230-234	49.4	64.4	46.4	48.3	41.3
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	5.5	6.7	6.2	4.8	4.9
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	7.1	8.3	6.4	8.6	4.7
Malignant neoplasm of breast . . . . . 174-175,198.81	4.1	5.4	3.6	4.4	3.2
Benign neoplasms . . . . . 210-229	13.7	15.2	11.8	15.4	11.6
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	48.0	53.7	48.8	53.3	33.9
Diabetes mellitus . . . . . 250	18.8	20.3	17.7	21.4	14.4
Volume depletion . . . . . 276.5	15.5	17.6	16.7	17.3	9.6
Diseases of the blood and blood-forming organs . . . . . 280-289	13.8	18.6	12.7	15.0	9.0
Mental disorders . . . . . 290-319	72.6	116.2	77.4	73.3	29.1
Psychoses . . . . . 290-299	45.1	72.0	49.0	45.1	18.0
Alcohol dependence syndrome . . . . . 303	7.1	8.8	*	*	*
Diseases of the nervous system and sense organs . . . . . 320-389	20.5	27.9	19.9	20.1	15.4
Diseases of the circulatory system . . . . . 390-459	225.5	264.3	231.9	240.0	162.3
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	154.9	188.5	164.5	156.2	113.8
Acute myocardial infarction . . . . . 410	28.0	31.9	28.8	26.9	25.5
Coronary atherosclerosis . . . . . 414.0	37.3	45.9	40.6	37.1	26.7
Other ischemic heart disease . . . . . 411-413,414.1-414.9	12.0	17.6	10.4	12.3	8.4
Cardiac dysrhythmias . . . . . 427	23.5	31.4	25.0	23.4	15.0
Congestive heart failure . . . . . 428.0	35.4	39.6	41.1	38.4	21.1
Cerebrovascular disease . . . . . 430-438	37.6	37.7	37.6	44.2	27.2
Diseases of the respiratory system . . . . . 460-519	128.5	129.7	130.6	147.4	95.4
Acute bronchitis and bronchiolitis . . . . . 466	10.0	7.7	9.3	12.7	8.6
Pneumonia . . . . . 480-486	48.2	41.7	49.1	57.3	38.5
Chronic bronchitis . . . . . 491	16.6	16.1	18.0	20.2	9.6
Asthma . . . . . 493	17.9	23.9	19.2	17.8	11.5
Diseases of the digestive system . . . . . 520-579	110.9	122.9	110.1	115.5	94.0
Appendicitis . . . . . 540-543	8.6	8.5	9.6	7.0	10.1
Noninfectious enteritis and colitis . . . . . 555-558	10.4	11.3	10.5	12.1	6.8
Diverticula of intestine . . . . . 562	8.6	10.6	8.5	8.6	7.0
Cholelithiasis . . . . . 574	14.5	20.3	13.6	13.1	12.9
Diseases of the genitourinary system . . . . . 580-629	62.6	62.3	64.2	70.5	48.9
Calculus of kidney and ureter . . . . . 592	6.1	7.0	7.1	7.0	3.0
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	18.5	19.2	17.4	20.3	16.2
Diseases of the skin and subcutaneous tissue . . . . . 680-709	16.8	18.9	18.4	16.9	13.1
Cellulitis and abscess . . . . . 681-682	12.0	13.4	12.9	12.0	9.6
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	55.5	60.6	58.0	57.1	45.9
Osteoarthritis and allied disorders . . . . . 715	15.2	16.9	17.8	14.3	12.3
Intervertebral disc disorders . . . . . 722	11.5	10.2	12.6	13.1	8.9
Congenital anomalies . . . . . 740-759	5.7	10.3	*	3.8	6.4
Certain conditions originating in the perinatal period . . . . . 760-779	5.1	4.6	*	4.1	6.3
Symptoms, signs, and ill-defined conditions . . . . . 780-799	10.1	11.6	7.5	12.2	8.3
Injury and poisoning . . . . . 800-999	93.2	100.7	91.6	93.2	88.4
Fractures, all sites <sup>2</sup> . . . . . 800-829	37.3	36.7	36.7	38.7	36.1
Fracture of neck of femur <sup>2</sup> . . . . . 820	12.0	11.2	12.2	13.1	10.9
Poisonings . . . . . 960-989	7.3	7.7	7.9	6.4	7.7
Supplementary classifications . . . . . V01-V82	159.7	144.3	163.3	159.2	169.9
Females with deliveries . . . . . V27	140.8	119.6	132.3	147.6	157.2

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 15. Average length of stay for discharges from short-stay hospitals by geographic region and first-listed diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	United States	Northeast	Midwest	South	West
All conditions . . . . .	5.1	5.9	4.8	5.1	4.4
Infectious and parasitic diseases . . . . . 001-139	6.6	8.3	5.7	6.1	6.3
Septicemia . . . . . 038	8.1	10.2	7.0	7.9	7.4
Neoplasms . . . . . 140-239	6.2	6.9	5.8	6.2	5.8
Malignant neoplasms . . . . . 140-208,230-234	7.0	7.8	6.5	7.1	6.5
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	9.3	10.1	8.6	9.4	9.3
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	7.7	9.2	7.3	7.1	7.6
Malignant neoplasm of breast . . . . . 174-175,198.81	3.0	3.3	2.7	3.4	2.2
Benign neoplasms . . . . . 210-229	3.5	3.5	3.3	3.5	3.7
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	5.1	6.5	4.4	5.0	4.3
Diabetes mellitus . . . . . 250	5.8	7.6	4.9	5.6	5.2
Volume depletion . . . . . 276.5	4.4	5.6	3.8	4.4	3.4
Diseases of the blood and blood-forming organs . . . . . 280-289	5.2	6.5	4.3	5.2	4.1
Mental disorders . . . . . 290-319	8.0	9.3	7.1	7.7	6.5
Psychoses . . . . . 290-299	9.1	10.5	8.0	9.0	7.6
Alcohol dependence syndrome . . . . . 303	6.6	8.3	7.2	5.7	5.0
Diseases of the nervous system and sense organs . . . . . 320-389	5.7	5.7	4.9	5.8	6.2
Diseases of the circulatory system . . . . . 390-459	5.3	6.0	4.9	5.4	4.6
Heart disease . . . . . 391-392,0,393-398,402,404,410-416,420-429	5.1	5.9	4.8	5.2	4.5
Acute myocardial infarction . . . . . 410	6.0	7.2	5.5	6.2	5.2
Coronary atherosclerosis . . . . . 414.0	4.5	4.9	4.3	4.4	4.8
Other ischemic heart disease . . . . . 411-413,414.1-414.9	3.1	3.8	2.8	2.9	2.9
Cardiac dysrhythmias . . . . . 427	4.2	4.6	3.6	4.6	3.4
Congestive heart failure . . . . . 428.0	5.8	7.0	5.4	5.9	4.6
Cerebrovascular disease . . . . . 430-438	5.8	7.0	5.1	5.8	5.1
Diseases of the respiratory system . . . . . 460-519	5.6	6.4	5.0	5.8	5.2
Acute bronchitis and bronchiolitis . . . . . 466	3.5	3.9	3.4	3.5	3.2
Pneumonia . . . . . 480-486	6.4	7.8	5.4	6.7	5.6
Chronic bronchitis . . . . . 491	5.4	6.0	5.5	5.3	4.9
Asthma . . . . . 493	3.4	4.0	2.9	3.4	3.1
Diseases of the digestive system . . . . . 520-579	4.9	5.5	4.5	4.9	4.5
Appendicitis . . . . . 540-543	3.8	4.6	3.1	4.1	3.4
Noninfectious enteritis and colitis . . . . . 555-558	4.3	5.2	4.6	3.9	3.7
Diverticula of intestine . . . . . 562	5.6	6.2	5.0	6.0	5.0
Cholelithiasis . . . . . 574	4.0	4.3	3.9	4.1	3.6
Diseases of the genitourinary system . . . . . 580-629	4.0	4.3	3.6	4.1	3.7
Calculus of kidney and ureter . . . . . 592	2.2	2.4	2.1	2.2	2.2
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	2.5	2.7	2.1	2.6	2.3
Diseases of the skin and subcutaneous tissue . . . . . 680-709	5.8	6.2	5.3	5.9	5.9
Cellulitis and abscess . . . . . 681-682	5.3	5.8	5.0	5.2	5.6
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	4.5	4.6	4.1	4.6	4.9
Osteoarthritis and allied disorders . . . . . 715	5.2	4.9	4.3	5.1	*
Intervertebral disc disorders . . . . . 722	2.8	2.5	2.8	2.9	2.7
Congenital anomalies . . . . . 740-759	5.7	6.2	5.9	5.3	5.0
Certain conditions originating in the perinatal period . . . . . 760-779	9.7	7.9	11.4	12.1	6.7
Symptoms, signs, and ill-defined conditions . . . . . 780-799	2.7	3.3	2.0	3.1	1.8
Injury and poisoning . . . . . 800-999	5.2	5.5	5.0	5.6	4.8
Fractures, all sites <sup>2</sup> . . . . . 800-829	5.7	5.8	5.4	6.1	5.4
Fracture of neck of femur <sup>2</sup> . . . . . 820	7.3	8.0	6.5	8.0	6.5
Poisonings . . . . . 960-989	2.8	3.5	2.6	2.8	2.4
Supplementary classifications . . . . . V01-V82	3.1	3.5	3.9	2.7	2.6
Females with deliveries . . . . . V27	2.4	2.8	2.4	2.4	2.2

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 16. Number of all-listed diagnoses for discharges from short-stay hospitals by age and diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

All-listed diagnosis and ICD-9-CM code	All ages	Under 15 years	15-44 years	45-64 years	65 years and over
	Number in thousands				
All conditions . . . . .	126,073	6,084	32,328	26,573	61,088
Infectious and parasitic diseases . . . . . 001-139	3,460	467	927	633	1,434
Septicemia . . . . . 038	679	46	91	130	411
Neoplasms . . . . . 140-239	4,333	121	607	1,358	2,247
Malignant neoplasms . . . . . 140-208,230-234	3,382	104	299	1,017	1,961
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	230	*	9	63	158
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	486	*	25	155	301
Malignant neoplasm of breast . . . . . 174-175,198.81	183	*	24	67	92
Benign neoplasms . . . . . 210-229	819	12	294	313	201
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	12,777	506	1,672	3,453	7,146
Diabetes mellitus . . . . . 250	4,211	26	438	1,333	2,414
Volume depletion . . . . . 276.5	1,991	304	293	296	1,097
Diseases of the blood and blood-forming organs . . . . . 280-289	4,053	189	919	831	2,114
Mental disorders . . . . . 290-319	7,959	259	3,547	1,914	2,239
Psychoses . . . . . 290-299	2,748	61	958	506	1,222
Alcohol dependence syndrome . . . . . 303	742	*	381	265	92
Diseases of the nervous system and sense organs . . . . . 320-389	3,543	459	517	677	1,891
Diseases of the circulatory system . . . . . 390-459	27,463	122	1,507	6,427	19,406
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	17,109	75	746	3,795	12,492
Acute myocardial infarction . . . . . 410	871	*	49	286	534
Coronary atherosclerosis . . . . . 414.0	3,786	*	105	1,011	2,666
Other ischemic heart disease . . . . . 411-413,414.1-414.9	2,475	*	105	765	1,602
Cardiac dysrhythmias . . . . . 427	3,538	25	145	580	2,788
Congestive heart failure . . . . . 428.0	3,036	12	80	486	2,458
Cerebrovascular disease . . . . . 430-438	1,926	12	65	350	1,498
Diseases of the respiratory system . . . . . 460-519	9,962	1,237	1,214	1,934	5,577
Acute bronchitis and bronchiolitis . . . . . 466	424	232	46	45	102
Pneumonia . . . . . 480-486	2,039	278	217	310	1,234
Chronic bronchitis . . . . . 491	912	*	42	229	638
Asthma . . . . . 493	1,242	333	342	265	302
Diseases of the digestive system . . . . . 520-579	8,177	441	1,672	2,079	3,985
Appendicitis . . . . . 540-543	259	66	139	35	19
Noninfectious enteritis and colitis . . . . . 555-558	591	124	156	105	206
Diverticula of intestine . . . . . 562	501	*	29	114	358
Cholelithiasis . . . . . 574	647	*	187	172	284
Diseases of the genitourinary system . . . . . 580-629	6,935	158	1,944	1,575	3,258
Calculus of kidney and ureter . . . . . 592	242	*	104	76	61
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	8,247	25	8,209	*13	...
Diseases of the skin and subcutaneous tissue . . . . . 680-709	1,579	111	301	384	784
Cellulitis and abscess . . . . . 681-682	673	38	161	179	295
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	4,568	67	728	1,147	2,626
Osteoarthritis and allied disorders . . . . . 715	1,156	*	28	230	897
Intervertebral disc disorders . . . . . 722	438	*	167	168	101
Congenital anomalies . . . . . 740-759	561	328	111	69	52
Certain conditions originating in the perinatal period . . . . . 760-779	368	361	*	*	*
Symptoms, signs, and ill-defined conditions . . . . . 780-799	6,296	547	1,395	1,515	2,838
Injury and poisoning . . . . . 800-999	5,891	422	1,993	1,190	2,286
Fractures, all sites <sup>2</sup> . . . . . 800-829	1,543	97	470	231	745
Fracture of neck of femur <sup>2</sup> . . . . . 820	363	*	9	21	328
Poisonings . . . . . 960-989	369	29	218	61	61
Supplementary classifications . . . . . V01-V82	9,901	264	5,059	1,374	3,203
Females with deliveries . . . . . V27	3,808	12	3,791	*4	...

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 17. Number of all-listed diagnoses for discharges from short-stay hospitals by sex and diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

All-listed diagnosis and ICD-9-CM code	Both sexes	Male	Female
Number in thousands			
All conditions . . . . .	126,073	51,032	75,041
Infectious and parasitic diseases . . . . . 001-139	3,460	1,485	1,976
Septicemia . . . . . 038	679	325	355
Neoplasms . . . . . 140-239	4,333	1,803	2,530
Malignant neoplasms . . . . . 140-208,230-234	3,382	1,613	1,769
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	230	111	119
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	486	260	226
Malignant neoplasm of breast . . . . . 174-175,198.81	183	*	181
Benign neoplasms . . . . . 210-229	819	130	690
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	12,777	5,233	7,544
Diabetes mellitus . . . . . 250	4,211	1,875	2,336
Volume depletion . . . . . 276.5	1,991	842	1,148
Diseases of the blood and blood-forming organs . . . . . 280-289	4,053	1,588	2,465
Mental disorders . . . . . 290-319	7,959	3,904	4,054
Psychoses . . . . . 290-299	2,748	1,206	1,542
Alcohol dependence syndrome . . . . . 303	742	533	209
Diseases of the nervous system and sense organs . . . . . 320-389	3,543	1,633	1,909
Diseases of the circulatory system . . . . . 390-459	27,463	13,192	14,271
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	17,109	8,614	8,494
Acute myocardial infarction . . . . . 410	871	520	351
Coronary atherosclerosis . . . . . 414.0	3,786	2,129	1,657
Other ischemic heart disease . . . . . 411-413,414.1-414.9	2,475	1,388	1,087
Cardiac dysrhythmias . . . . . 427	3,538	1,712	1,826
Congestive heart failure . . . . . 428.0	3,036	1,320	1,715
Cerebrovascular disease . . . . . 430-438	1,926	887	1,039
Diseases of the respiratory system . . . . . 460-519	9,962	4,778	5,183
Acute bronchitis and bronchiolitis . . . . . 466	424	211	213
Pneumonia . . . . . 480-486	2,039	1,016	1,023
Chronic bronchitis . . . . . 491	912	405	508
Asthma . . . . . 493	1,242	462	780
Diseases of the digestive system . . . . . 520-579	8,177	3,510	4,667
Appendicitis . . . . . 540-543	259	148	111
Noninfectious enteritis and colitis . . . . . 555-558	591	233	358
Diverticula of intestine . . . . . 562	501	198	303
Cholelithiasis . . . . . 574	647	202	445
Diseases of the genitourinary system . . . . . 580-629	6,935	2,346	4,589
Calculus of kidney and ureter . . . . . 592	242	134	108
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	8,247	...	8,247
Diseases of the skin and subcutaneous tissue . . . . . 680-709	1,579	759	820
Cellulitis and abscess . . . . . 681-682	673	344	329
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	4,568	1,674	2,894
Osteoarthritis and allied disorders . . . . . 715	1,156	381	775
Intervertebral disc disorders . . . . . 722	438	226	212
Congenital anomalies . . . . . 740-759	561	281	279
Certain conditions originating in the perinatal period . . . . . 760-779	368	217	151
Symptoms, signs, and ill-defined conditions . . . . . 780-799	6,296	2,845	3,451
Injury and poisoning . . . . . 800-999	5,891	3,001	2,890
Fractures, all sites <sup>2</sup> . . . . . 800-829	1,543	715	828
Fracture of neck of femur <sup>2</sup> . . . . . 820	363	99	264
Poisonings . . . . . 960-989	369	146	223
Supplementary classifications . . . . . V01-V82	9,901	2,781	7,120
Females with deliveries . . . . . V27	3,808	...	3,808

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 18. Number of all-listed diagnoses for discharges from short-stay hospitals by geographic region and diagnosis: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

All-listed diagnosis and ICD-9-CM code	United States	Northeast	Midwest	South	West
All conditions . . . . .	126,073	27,300	31,448	44,836	22,488
Infectious and parasitic diseases . . . . . 001-139	3,460	764	809	1,286	601
Septicemia . . . . . 038	679	154	155	256	114
Neoplasms . . . . . 140-239	4,333	1,077	1,036	1,465	755
Malignant neoplasms . . . . . 140-208,230-234	3,382	859	820	1,113	590
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	230	55	64	70	40
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	486	104	117	193	72
Malignant neoplasm of breast . . . . . 174-175,198.81	183	47	38	68	29
Benign neoplasms . . . . . 210-229	819	180	181	314	144
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	12,777	2,758	3,262	4,603	2,154
Diabetes mellitus . . . . . 250	4,211	948	1,014	1,577	673
Volume depletion . . . . . 276.5	1,991	394	503	765	329
Diseases of the blood and blood-forming organs . . . . . 280-289	4,053	869	947	1,433	805
Mental disorders . . . . . 290-319	7,959	2,047	2,049	2,724	1,138
Psychoses . . . . . 290-299	2,748	715	687	979	366
Alcohol dependence syndrome . . . . . 303	742	202	204	233	103
Diseases of the nervous system and sense organs . . . . . 320-389	3,543	823	904	1,188	627
Diseases of the circulatory system . . . . . 390-459	27,463	6,331	6,980	9,824	4,328
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	17,109	4,061	4,427	5,911	2,710
Acute myocardial infarction . . . . . 410	871	195	211	290	175
Coronary atherosclerosis . . . . . 414.0	3,786	924	999	1,281	582
Other ischemic heart disease . . . . . 411-413,414.1-414.9	2,475	654	616	837	368
Cardiac dysrhythmias . . . . . 427	3,538	832	898	1,224	584
Congestive heart failure . . . . . 428.0	3,036	642	860	1,110	423
Cerebrovascular disease . . . . . 430-438	1,926	375	466	781	304
Diseases of the respiratory system . . . . . 460-519	9,962	2,068	2,425	3,789	1,680
Acute bronchitis and bronchiolitis . . . . . 466	424	66	95	182	81
Pneumonia . . . . . 480-486	2,039	374	476	816	373
Chronic bronchitis . . . . . 491	912	165	214	385	149
Asthma . . . . . 493	1,242	332	319	382	209
Diseases of the digestive system . . . . . 520-579	8,177	1,793	2,014	2,921	1,449
Appendicitis . . . . . 540-543	259	49	68	74	68
Noninfectious enteritis and colitis . . . . . 555-558	591	129	145	227	90
Diverticula of intestine . . . . . 562	501	120	124	177	80
Cholelithiasis . . . . . 574	647	161	146	212	128
Diseases of the genitourinary system . . . . . 580-629	6,935	1,402	1,727	2,650	1,156
Calculus of kidney and ureter . . . . . 592	242	54	61	97	30
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . . 630-677	8,247	1,392	1,861	2,908	2,087
Diseases of the skin and subcutaneous tissue . . . . . 680-709	1,579	385	394	548	253
Cellulitis and abscess . . . . . 681-682	673	155	169	231	119
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	4,568	951	1,265	1,560	792
Osteoarthritis and allied disorders . . . . . 715	1,156	232	381	368	175
Intervertebral disc disorders . . . . . 722	438	78	116	171	72
Congenital anomalies . . . . . 740-759	561	168	128	138	126
Certain conditions originating in the perinatal period . . . . . 760-779	368	67	*	109	85
Symptoms, signs, and ill-defined conditions . . . . . 780-799	6,296	1,300	1,633	2,288	1,076
Injury and poisoning . . . . . 800-999	5,891	1,199	1,422	2,020	1,249
Fractures, all sites <sup>2</sup> . . . . . 800-829	1,543	288	360	563	333
Fracture of neck of femur <sup>2</sup> . . . . . 820	363	68	87	135	73
Poisonings . . . . . 960-989	369	73	91	115	90
Supplementary classifications . . . . . V01-V82	9,901	1,907	2,486	3,381	2,127
Females with deliveries . . . . . V27	3,808	621	830	1,407	949

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 19. Number and rate of discharges from short-stay hospitals with human immunodeficiency virus diagnoses by selected characteristics: United States, 1990–97**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Data are for discharges with at least one of the following *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD–9–CM) codes: 042–044, 279.19, 795.8 (prior to 1995); 042, V08 (beginning in 1995)]

Characteristic	1990	1991	1992	1993	1994	1995	1996	1997
	Number in thousands							
All HIV <sup>1</sup> discharges . . . . .	146	165	194	225	234	249	227	178
Sex								
Male . . . . .	114	127	153	174	177	183	165	123
Female . . . . .	32	37	41	51	57	66	62	55
Age								
Under 25 years . . . . .	14	16	16	14	18	17	12	11
25–29 years . . . . .	20	25	26	37	20	26	18	17
30–34 years . . . . .	38	38	42	46	50	48	44	32
35–39 years . . . . .	36	36	53	51	56	59	52	40
40–44 years . . . . .	17	25	30	40	44	49	49	38
45 years and over . . . . .	21	25	27	37	45	51	53	40
Region								
Northeast . . . . .	66	61	75	94	91	95	86	69
Midwest . . . . .	20	26	23	28	33	27	25	*
South . . . . .	37	44	56	64	78	87	77	72
West . . . . .	24	33	40	39	32	41	39	19
	Rate per 100,000 population <sup>2</sup>							
All HIV <sup>1</sup> discharges . . . . .	58.1	64.6	75.2	86.4	88.9	93.9	84.7	65.8
Sex								
Male . . . . .	93.4	102.5	121.7	136.8	137.7	141.6	125.7	93.1
Female . . . . .	24.7	28.7	31.0	38.4	42.3	48.4	45.4	39.7
Age								
Under 25 years . . . . .	14.8	16.5	17.4	15.0	19.2	17.6	12.6	11.3
25–29 years . . . . .	95.1	118.3	129.1	185.5	103.9	132.2	91.3	86.7
30–34 years . . . . .	172.8	170.7	186.3	204.7	223.3	216.2	203.6	153.6
35–39 years . . . . .	179.0	176.3	249.7	235.0	254.0	262.7	227.8	176.5
40–44 years . . . . .	94.8	130.9	156.3	207.2	222.9	241.4	233.1	175.2
45 years and over . . . . .	27.4	32.1	33.2	44.8	53.9	60.2	60.6	45.5
Region								
Northeast . . . . .	128.8	119.7	146.5	182.7	176.4	183.3	164.9	132.3
Midwest . . . . .	33.6	43.4	37.1	44.8	52.8	43.5	40.5	*
South . . . . .	42.1	49.5	62.3	70.5	85.2	93.1	82.0	75.1
West . . . . .	44.1	60.8	71.6	68.9	54.8	69.5	65.2	30.9

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>HIV is human immunodeficiency virus.

<sup>2</sup>Rates are based on the U.S. Bureau of the Census estimates of the civilian population that have been adjusted for net underenumeration in the 1990 Census. See appendix.



**Table 20. Number of deaths and fatality rate for discharges from short-stay hospitals by age and selected first-listed diagnoses: United States, 1997**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

First-listed diagnosis and ICD-9-CM code	All ages	Under 65 years	65 years and over	Rate per 100 discharges		
				All ages	Under 65 years	65 years and over
	Discharges in thousands			Rate per 100 discharges		
All conditions <sup>1</sup>	783	187	596	2.5	1.0	4.9
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	167	28	139	4.0	1.9	5.1
Acute myocardial infarction . . . . . 410	70	11	58	9.2	3.7	12.9
Coronary atherosclerosis . . . . . 414.0	12	*	10	1.2	*	1.7
Cardiac dysrhythmias . . . . . 427	18	*4	13	2.8	*2.3	3.1
Congestive heart failure . . . . . 428.0	45	*3	42	4.7	*1.6	5.6
Malignant neoplasms . . . . . 140-208,230-234	100	33	66	7.5	5.8	8.8
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	24	7	17	12.5	9.7	14.1
Pneumonia . . . . . 480-486	77	11	67	5.9	2.1	8.5
Cerebrovascular disease . . . . . 430-438	64	15	48	6.3	6.3	6.2
Septicemia . . . . . 038	46	10	35	13.0	8.6	15.2
Fractures, all sites <sup>2</sup> . . . . . 800-829	17	*4	13	1.7	*0.7	2.6
Volume depletion . . . . . 276.5	12	*	9	2.8	*	4.2
Chronic bronchitis . . . . . 491	11	*	8	2.4	*	2.7

\*Figure does not meet standard of reliability or precision.

<sup>1</sup>Includes data for deaths not shown in table.

<sup>2</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 21. Number of discharges from short-stay hospitals with and without procedures and percent with procedures by selected characteristics: United States, 1997**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants]

Characteristic	All discharges	Discharges without procedures	Discharges with procedures			
			Total		With surgical procedures	
			Number in thousands	Percent	Number in thousands	Percent
All patients	30,914	11,652	19,263	62.3	13,974	45.2
Age						
Under 15 years	2,312	1,306	1,005	43.5	529	22.9
15-44 years	10,030	2,747	7,283	72.6	5,730	57.1
45-64 years	6,377	2,248	4,129	64.7	3,027	47.5
65 years and over	12,196	5,350	6,846	56.1	4,688	38.4
65-74 years	4,872	1,805	3,067	62.9	2,223	45.6
75-84 years	4,965	2,262	2,703	54.4	1,817	36.6
85 years and over	2,359	1,283	1,076	45.6	648	27.5
Sex						
Male	12,268	5,002	7,266	59.2	4,978	40.6
Female	18,647	6,650	11,997	64.3	8,996	48.2
Region						
Northeast	6,679	2,213	4,466	66.9	2,986	44.7
Midwest	7,234	3,022	4,212	58.2	3,168	43.8
South	11,445	4,853	6,592	57.6	5,004	43.7
West	5,556	1,563	3,993	71.9	2,816	50.7

NOTE: See appendix for definition of surgical procedures.



**Table 22. Number and rate of all-listed surgical and nonsurgical procedures for discharges from short-stay hospitals by selected procedure categories: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	Number in thousands	Rate per 10,000 population
Surgical procedures <sup>1</sup>	22,927	847.8
Episiotomy with or without forceps or vacuum extraction . . . . . 72.1,72.21,72.31,72.71,73.6	1,183	43.7
Cardiac catheterization . . . . . 37.21-37.23	1,112	41.1
Repair of current obstetric laceration . . . . . 75.5-75.6	1,082	40.0
Cesarean section . . . . . 74.0-74.2,74.4,74.99	820	30.3
Artificial rupture of membranes . . . . . 73.0	772	28.6
Removal of coronary artery obstruction and insertion of stent(s) <sup>2</sup> . . . . . 36.0	686	25.4
Reduction of fracture . . . . . 76.7,79.0-79.3	642	23.7
Open reduction of fracture with internal fixation . . . . . 79.3	428	15.8
Coronary artery bypass graft <sup>2</sup> . . . . . 36.1	607	22.5
Hysterectomy . . . . . 68.3-68.7,68.9	603	22.3
Endoscopy of small intestine with biopsy . . . . . 45.14,45.16	492	18.2
Oophorectomy and salpingo-oophorectomy . . . . . 65.3-65.6	481	17.8
Cholecystectomy . . . . . 51.2	442	16.4
Bilateral destruction or occlusion of fallopian tubes . . . . . 66.2-66.3	325	12.0
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	317	11.7
Debridement of wound, infection, or burn . . . . . 86.22,86.28	312	11.5
Lysis of peritoneal adhesions . . . . . 54.5	310	11.4
Excision or destruction of intervertebral disc . . . . . 80.5	293	10.8
Appendectomy, excluding incidental . . . . . 47.0	263	9.7
Total knee replacement . . . . . 81.54	259	9.6
Prostatectomy . . . . . 60.2-60.6	223	8.3
Partial excision of large intestine . . . . . 45.7	220	8.1
Partial excision of bone . . . . . 76.2-76.3,77.6-77.8	213	7.9
Nonsurgical procedures <sup>3</sup>	17,582	650.2
Arteriography and angiocardiography using contrast material . . . . . 88.4-88.5	1,900	70.2
Diagnostic ultrasound . . . . . 88.7	1,111	41.1
Respiratory therapy . . . . . 93.9,96.7	1,088	40.2
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	963	35.6
Hemodialysis . . . . . 39.95	406	15.0
Endoscopy of small intestine without biopsy . . . . . 45.11-45.13	390	14.4
Insertion of endotracheal tube . . . . . 96.04	374	13.8
Endoscopy of large intestine without biopsy . . . . . 45.21-45.24	319	11.8
Spinal tap . . . . . 03.31	311	11.5
Injection or infusion of cancer chemotherapeutic substance . . . . . 99.25	276	10.2

<sup>1</sup>Includes data for surgical procedures not shown in table. All procedures except those listed under "nonsurgical procedures" in the appendix are surgical procedures.<sup>2</sup>See table 24 for comparison of number of procedures with number of discharges with procedures.<sup>3</sup>Includes data for nonsurgical procedures not shown in table. The ICD-9-CM codes for nonsurgical procedures are listed in the appendix.

**Table 23. Number and rate of all-listed surgical and nonsurgical procedures for patients 65 years of age and over discharged from short-stay hospitals, by age and selected procedure categories: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	65 years and over	65-74 years	75-84 years	85 years and over
	Number in thousands			
Surgical procedures <sup>1</sup>	7,742	3,856	2,928	959
Cardiac catheterization . . . . . 37.21-37.23	563	342	198	24
Removal of coronary artery obstruction and insertion of stent(s) <sup>2</sup> . . . . . 36.0	340	211	116	13
Coronary artery bypass graft <sup>2</sup> . . . . . 36.1	339	228	103	*8
Endoscopy of small intestine with biopsy . . . . . 45.14,45.16	281	107	123	51
Reduction of fracture . . . . . 76.7,79.0-79.3	263	73	104	86
Open reduction of fracture with internal fixation . . . . . 79.3	198	51	78	69
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	258	81	116	60
Total knee replacement . . . . . 81.54	177	106	62	9
Cholecystectomy . . . . . 51.2	164	85	62	17
Prostatectomy . . . . . 60.2-60.6	161	86	58	17
Debridement of wound, infection, or burn . . . . . 86.22,86.28	120	52	45	24
Nonsurgical procedures <sup>3</sup>	7,273	3,094	2,993	1,185
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	972	560	358	54
Diagnostic ultrasound . . . . . 88.7	589	230	252	108
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	506	186	219	101
Respiratory therapy . . . . . 93.9,96.7	522	210	220	91
Endoscopy of small intestine without biopsy . . . . . 45.11-45.13	244	88	101	55
Endoscopy of large intestine without biopsy . . . . . 45.21-45.24	217	77	95	46
Insertion of endotracheal tube . . . . . 96.04	206	85	87	34
Hemodialysis . . . . . 39.95	199	107	80	12
	Rate per 10,000 population			
Surgical procedures <sup>1</sup>	2,292.3	2,104.3	2,522.4	2,494.1
Cardiac catheterization . . . . . 37.21-37.23	166.7	186.4	170.5	61.5
Removal of coronary artery obstruction and insertion of stent(s) <sup>2</sup> . . . . . 36.0	100.6	115.1	100.2	33.0
Coronary artery bypass graft <sup>2</sup> . . . . . 36.1	100.4	124.5	88.5	*21.5
Endoscopy of small intestine with biopsy . . . . . 45.14,45.16	83.2	58.5	105.6	133.1
Reduction of fracture . . . . . 76.7,79.0-79.3	77.9	40.0	89.2	224.3
Open reduction of fracture with internal fixation . . . . . 79.3	58.6	28.0	67.2	178.8
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	76.4	44.4	100.1	156.9
Total knee replacement . . . . . 81.54	52.4	57.7	53.8	22.5
Cholecystectomy . . . . . 51.2	48.7	46.3	53.8	44.5
Prostatectomy . . . . . 60.2-60.6	47.5	46.7	50.2	43.3
Debridement of wound, infection, or burn . . . . . 86.22,86.28	35.6	28.2	38.5	61.9
Nonsurgical procedures <sup>3</sup>	2,153.2	1,688.5	2,579.1	3,082.5
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	287.9	305.7	308.1	141.7
Diagnostic ultrasound . . . . . 88.7	174.4	125.3	216.8	280.4
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	149.8	101.3	189.0	263.0
Respiratory therapy . . . . . 93.9,96.7	154.4	114.7	189.4	237.8
Endoscopy of small intestine without biopsy . . . . . 45.11-45.13	72.1	48.1	86.7	142.7
Endoscopy of large intestine without biopsy . . . . . 45.21-45.24	64.3	41.8	81.8	118.5
Insertion of endotracheal tube . . . . . 96.04	60.9	46.6	74.6	87.6
Hemodialysis . . . . . 39.95	58.9	58.4	69.1	30.7

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>Includes data for surgical procedures not shown in table. All procedures except those listed under "nonsurgical procedures" in the appendix are surgical procedures.<sup>2</sup>See table 24 for a comparison of number of procedures with number of discharges with procedures.<sup>3</sup>Includes data for nonsurgical procedures not shown in table. The ICD-9-CM codes for nonsurgical procedures are listed in the appendix.

**Table 24. Number and rate of discharges from short-stay hospitals with a coronary artery procedure and number and rate of procedures by sex, age, and region: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Sex, age, and region	Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup>		Coronary artery bypass graft <sup>2</sup>	
	Number in thousands	Rate per 10,000 population	Number in thousands	Rate per 10,000 population
Discharges with procedures				
Total . . . . .	452	16.7	366	13.5
Sex				
Male . . . . .	299	22.6	250	18.9
Female . . . . .	153	11.0	116	8.4
Age				
Under 15 years . . . . .	*	*	*	*
15-44 years . . . . .	26	2.1	14	1.2
45-64 years . . . . .	197	35.6	142	25.6
65 years and over . . . . .	229	67.7	210	62.0
65-74 years . . . . .	140	76.6	137	74.7
75-84 years . . . . .	79	68.2	66	56.9
85 years and over . . . . .	9	23.3	*7	*17.2
Region				
Northeast . . . . .	85	16.4	87	16.8
Midwest . . . . .	115	18.4	92	14.6
South . . . . .	152	15.9	117	12.3
West . . . . .	100	16.5	69	11.5
Procedures				
Total . . . . .	686	25.4	607	22.5
Sex				
Male . . . . .	459	34.7	420	31.8
Female . . . . .	227	16.5	187	13.5
Age				
Under 15 years . . . . .	*	*	*	*
15-44 years . . . . .	41	3.4	25	2.0
45-64 years . . . . .	305	55.1	243	43.9
65 years and over . . . . .	340	100.6	339	100.4
65-74 years . . . . .	211	115.1	228	124.5
75-84 years . . . . .	116	100.2	103	88.5
85 years and over . . . . .	13	33.0	*8	*21.5
Region				
Northeast . . . . .	138	26.5	154	29.7
Midwest . . . . .	172	27.4	152	24.2
South . . . . .	238	25.0	190	19.9
West . . . . .	139	23.0	111	18.4

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>ICD-9-CM code 36.0.<sup>2</sup>ICD-9-CM code 36.1.

**Table 25. Number of all-listed procedures for discharges from short-stay hospitals by age and procedure category: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	All ages	Under 15 years	15-44 years	45-64 years	65 years and over	
						Number in thousands
All procedures	40,509	1,888	14,383	9,223	15,015	
Operations on the nervous system	01-05	1,043	207	349	213	273
Spinal tap	03.31	311	136	77	40	59
Operations on the endocrine system	06-07	104	*2	26	49	27
Operations on the eye	08-16	135	13	30	31	61
Operations on the ear	18-20	47	20	14	*	*6
Operations on the nose, mouth, and pharynx	21-29	311	63	110	72	67
Operations on the respiratory system	30-34	1,016	57	175	272	511
Bronchoscopy with or without biopsy	33.21-33.24,33.27	284	19	41	75	149
Operations on the cardiovascular system	35-39	5,382	144	509	1,822	2,907
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup>	36.0	686	*	41	305	340
Coronary artery bypass graft <sup>1</sup>	36.1	607	*	25	243	339
Cardiac catheterization	37.21-37.23	1,112	13	84	452	563
Insertion, replacement, removal, and revision of pacemaker leads or device	37.7-37.8	317	*	*10	45	258
Hemodialysis	39.95	406	*	68	137	199
Operations on the hemic and lymphatic system	40-41	342	22	62	114	145
Operations on the digestive system	42-54	5,052	208	1,178	1,301	2,365
Endoscopy of small intestine with or without biopsy	45.11-45.14,45.16	882	15	134	209	524
Endoscopy of large intestine with or without biopsy	45.21-45.25	494	6	65	104	318
Partial excision of large intestine	45.7	220	*	24	60	134
Appendectomy, excluding incidental	47.0	263	66	145	35	17
Cholecystectomy	51.2	442	*	143	131	164
Lysis of peritoneal adhesions	54.5	310	4	133	83	90
Operations on the urinary system	55-59	990	39	247	270	433
Cystoscopy with or without biopsy	57.31-57.33	192	*	36	48	101
Operations on the male genital organs	60-64	317	22	18	81	195
Prostatectomy	60.2-60.6	223	*	*	62	161
Operations on the female genital organs	65-71	2,068	7	1,211	587	262
Oophorectomy and salpingo-oophorectomy	65.3-65.6	481	*	201	216	63
Bilateral destruction or occlusion of fallopian tubes	66.2-66.3	325	*	324	*	*
Hysterectomy	68.3-68.7,68.9	603	*	303	231	68
Obstetrical procedures	72-75	6,682	21	6,653	*8	...
Episiotomy with or without forceps or vacuum extraction	72.1,72.21,72.31,72.71,73.6	1,183	*	1,176	*	...
Artificial rupture of membranes	73.0	772	*	769	*	...
Cesarean section	74.0-74.2,74.4,74.99	820	*	815	*	...
Repair of current obstetric laceration	75.5-75.6	1,082	*	1,079	*	...
Operations on the musculoskeletal system	76-84	3,172	156	935	873	1,209
Partial excision of bone	76.2-76.3,77.6-77.8	213	10	81	80	42
Reduction of fracture	76.7,79.0-79.3	642	47	225	106	263
Open reduction of fracture with internal fixation	79.3	428	14	141	76	198
Excision or destruction of intervertebral disc	80.5	293	*	125	124	43
Total hip replacement	81.51	144	*	8	37	98
Total knee replacement	81.54	259	*	*	77	177
Operations on the integumentary system	85-86	1,220	75	378	347	419
Debridement of wound, infection, or burn	86.22,86.28	312	18	88	85	120
Miscellaneous diagnostic and therapeutic procedures	87-99	12,628	830	2,488	3,177	6,133
Computerized axial tomography	87.03,87.41,87.71,88.01,88.38	963	41	201	214	506
Arteriography and angiocardiology using contrast material	88.4-88.5	1,900	18	172	738	972
Diagnostic ultrasound	88.7	1,111	43	230	249	589
Respiratory therapy	93.9,96.7	1,088	208	154	204	522
Insertion of endotracheal tube	96.04	374	36	59	74	206
Injection or infusion of cancer chemotherapeutic substance	99.25	276	41	44	97	95

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>See table 24 for comparison of number of procedures with number of discharges with procedures.

**Table 26. Rate of all-listed procedures for discharges from short-stay hospitals by age and procedure category: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	All ages	Under 15 years	15-44 years	45-64 years	65 years and over
All procedures	1,498.0	316.0	1,182.4	1,668.9	4,445.5
Operations on the nervous system . . . . . 01-05	38.6	34.7	28.7	38.6	81.0
Spinal tap . . . . . 03.31	11.5	22.8	6.3	7.2	17.3
Operations on the endocrine system . . . . . 06-07	3.9	*0.4	2.1	8.8	8.1
Operations on the eye . . . . . 08-16	5.0	2.2	2.5	5.6	18.1
Operations on the ear . . . . . 18-20	1.7	3.4	1.1	*	*1.8
Operations on the nose, mouth, and pharynx . . . . . 21-29	11.5	10.6	9.0	12.9	19.7
Operations on the respiratory system . . . . . 30-34	37.6	9.6	14.4	49.3	151.3
Bronchoscopy with or without biopsy . . . . . 33.21-33.24,33.27	10.5	3.2	3.3	13.6	44.2
Operations on the cardiovascular system . . . . . 35-39	199.0	24.1	41.8	329.7	860.8
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . . 36.0	25.4	*	3.4	55.1	100.6
Coronary artery bypass graft <sup>1</sup> . . . . . 36.1	22.5	*	2.0	43.9	100.4
Cardiac catheterization . . . . . 37.21-37.23	41.1	2.2	6.9	81.8	166.7
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	11.7	*	*0.8	8.2	76.4
Hemodialysis . . . . . 39.95	15.0	*	5.6	24.7	58.9
Operations on the hemic and lymphatic system . . . . . 40-41	12.7	3.7	5.1	20.6	42.8
Operations on the digestive system . . . . . 42-54	186.8	34.9	96.9	235.4	700.2
Endoscopy of small intestine with or without biopsy . . . . . 45.11-45.14,45.16	32.6	2.4	11.0	37.8	155.3
Endoscopy of large intestine with or without biopsy . . . . . 45.21-45.25	18.3	1.0	5.4	18.9	94.2
Partial excision of large intestine . . . . . 45.7	8.1	*	1.9	10.9	39.6
Appendectomy, excluding incidental . . . . . 47.0	9.7	11.1	11.9	6.3	5.0
Cholecystectomy . . . . . 51.2	16.4	*	11.7	23.7	48.7
Lysis of peritoneal adhesions . . . . . 54.5	11.4	0.6	10.9	15.0	26.7
Operations on the urinary system . . . . . 55-59	36.6	6.6	20.3	48.8	128.3
Cystoscopy with or without biopsy . . . . . 57.31-57.33	7.1	*	2.9	8.7	30.0
Operations on the male genital organs . . . . . 60-64	11.7	3.6	1.5	14.7	57.9
Prostatectomy . . . . . 60.2-60.6	8.3	*	*	11.3	47.5
Operations on the female genital organs . . . . . 65-71	76.5	1.2	99.6	106.3	77.6
Oophorectomy and salpingo-oophorectomy . . . . . 65.3-65.6	17.8	*	16.6	39.1	18.5
Bilateral destruction or occlusion of fallopian tubes . . . . . 66.2-66.3	12.0	*	26.6	*	*
Hysterectomy . . . . . 68.3-68.7,68.9	22.3	*	24.9	41.9	20.2
Obstetrical procedures . . . . . 72-75	247.1	3.5	547.0	*1.4	...
Episiotomy with or without forceps or vacuum extraction . . . . . 72.1,72.21,72.31,72.71,73.6	43.7	*	96.7	*	...
Artificial rupture of membranes . . . . . 73.0	28.6	*	63.2	*	...
Cesarean section . . . . . 74.0-74.2,74.4,74.99	30.3	*	67.0	*	...
Repair of current obstetric laceration . . . . . 75.5-75.6	40.0	*	88.7	*	...
Operations on the musculoskeletal system . . . . . 76-84	117.3	26.0	76.9	157.9	358.0
Partial excision of bone . . . . . 76.2-76.3,77.6-77.8	7.9	1.7	6.6	14.5	12.4
Reduction of fracture . . . . . 76.7,79.0-79.3	23.7	7.9	18.5	19.2	77.9
Open reduction of fracture with internal fixation . . . . . 79.3	15.8	2.3	11.6	13.7	58.6
Excision or destruction of intervertebral disc . . . . . 80.5	10.8	*	10.3	22.5	12.6
Total hip replacement . . . . . 81.51	5.3	*	0.7	6.7	29.1
Total knee replacement . . . . . 81.54	9.6	*	*	13.9	52.4
Operations on the integumentary system . . . . . 85-86	45.1	12.6	31.1	62.8	124.1
Debridement of wound, infection, or burn . . . . . 86.22,86.28	11.5	3.0	7.3	15.5	35.6
Miscellaneous diagnostic and therapeutic procedures . . . . . 87-99	467.0	138.9	204.5	574.9	1,816.0
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	35.6	6.9	16.5	38.7	149.8
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	70.2	3.0	14.1	133.4	287.9
Diagnostic ultrasound . . . . . 88.7	41.1	7.1	18.9	45.1	174.4
Respiratory therapy . . . . . 93.9,96.7	40.2	34.9	12.7	36.9	154.4
Insertion of endotracheal tube . . . . . 96.04	13.8	6.0	4.8	13.4	60.9
Injection or infusion of cancer chemotherapeutic substance . . . . . 99.25	10.2	6.9	3.6	17.5	28.1

\* Figure does not meet standard of reliability or precision.

... Category not applicable.

<sup>1</sup>See table 24 for comparison of number of procedures with number of discharges with procedures.

**Table 27. Number of all-listed procedures for discharges from short-stay hospitals by sex and procedure category: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	Both sexes	Male	Female
	Number in thousands		
All procedures . . . . .	40,509	15,817	24,692
Operations on the nervous system . . . . . 01-05	1,043	488	554
Spinal tap . . . . . 03.31	311	163	148
Operations on the endocrine system . . . . . 06-07	104	26	78
Operations on the eye . . . . . 08-16	135	70	65
Operations on the ear . . . . . 18-20	47	31	17
Operations on the nose, mouth, and pharynx . . . . . 21-29	311	168	143
Operations on the respiratory system . . . . . 30-34	1,016	554	462
Bronchoscopy with or without biopsy . . . . . 33.21-33.24,33.27	284	154	130
Operations on the cardiovascular system . . . . . 35-39	5,382	3,116	2,266
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . . 36.0	686	459	227
Coronary artery bypass graft <sup>1</sup> . . . . . 36.1	607	420	187
Cardiac catheterization . . . . . 37.21-37.23	1,112	664	448
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	317	163	154
Hemodialysis . . . . . 39.95	406	195	211
Operations on the hemic and lymphatic system . . . . . 40-41	342	173	170
Operations on the digestive system . . . . . 42-54	5,052	2,126	2,926
Endoscopy of small intestine with or without biopsy . . . . . 45.11-45.14,45.16	882	403	479
Endoscopy of large intestine with or without biopsy . . . . . 45.21-45.25	494	196	298
Partial excision of large intestine . . . . . 45.7	220	104	116
Appendectomy, excluding incidental . . . . . 47.0	263	143	119
Cholecystectomy . . . . . 51.2	442	135	307
Lysis of peritoneal adhesions . . . . . 54.5	310	55	254
Operations on the urinary system . . . . . 55-59	990	494	496
Cystoscopy with or without biopsy . . . . . 57.31-57.33	192	119	73
Operations on the male genital organs . . . . . 60-64	317	317	...
Prostatectomy . . . . . 60.2-60.6	223	223	...
Operations on the female genital organs . . . . . 65-71	2,068	...	2,068
Oophorectomy and salpingo-oophorectomy . . . . . 65.3-65.6	481	...	481
Bilateral destruction or occlusion of fallopian tubes . . . . . 66.2-66.3	325	...	325
Hysterectomy . . . . . 68.3-68.7,68.9	603	...	603
Obstetrical procedures . . . . . 72-75	6,682	...	6,682
Episiotomy with or without forceps or vacuum extraction . . . . . 72.1,72.21,72.31,72.71,73.6	1,183	...	1,183
Artificial rupture of membranes . . . . . 73.0	772	...	772
Cesarean section . . . . . 74.0-74.2,74.4,74.99	820	...	820
Repair of current obstetric laceration . . . . . 75.5-75.6	1,082	...	1,082
Operations on the musculoskeletal system . . . . . 76-84	3,172	1,528	1,644
Partial excision of bone . . . . . 76.2-76.3,77.6-77.8	213	109	103
Reduction of fracture . . . . . 76.7,79.0-79.3	642	298	344
Open reduction of fracture with internal fixation . . . . . 79.3	428	187	241
Excision or destruction of intervertebral disc . . . . . 80.5	293	164	129
Total hip replacement . . . . . 81.51	144	57	87
Total knee replacement . . . . . 81.54	259	90	169
Operations on the integumentary system . . . . . 85-86	1,220	570	649
Debridement of wound, infection, or burn . . . . . 86.22,86.28	312	188	124
Miscellaneous diagnostic and therapeutic procedures . . . . . 87-99	12,628	6,156	6,472
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	963	473	489
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	1,900	1,077	823
Diagnostic ultrasound . . . . . 88.7	1,111	483	628
Respiratory therapy . . . . . 93.9,96.7	1,088	561	527
Insertion of endotracheal tube . . . . . 96.04	374	195	179
Injection or infusion of cancer chemotherapeutic substance . . . . . 99.25	276	129	147

... Category not applicable

<sup>1</sup>See table 24 for comparison of number of procedures with number of discharges with procedures.

**Table 28. Rate of all-listed procedures for discharges from short-stay hospitals by sex and procedure category: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	Both sexes	Rate per 10,000 population	
		Male	Female
All procedures	1,498.0	1,195.3	1,788.0
Operations on the nervous system . . . . . 01-05	38.6	36.9	40.1
Spinal tap . . . . . 03.31	11.5	12.3	10.7
Operations on the endocrine system . . . . . 06-07	3.9	2.0	5.6
Operations on the eye . . . . . 08-16	5.0	5.3	4.7
Operations on the ear . . . . . 18-20	1.7	2.3	1.2
Operations on the nose, mouth, and pharynx . . . . . 21-29	11.5	12.7	10.3
Operations on the respiratory system . . . . . 30-34	37.6	41.8	33.5
Bronchoscopy with or without biopsy . . . . . 33.21-33.24,33.27	10.5	11.6	9.4
Operations on the cardiovascular system . . . . . 35-39	199.0	235.4	164.1
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . . 36.0	25.4	34.7	16.5
Coronary artery bypass graft <sup>1</sup> . . . . . 36.1	22.5	31.8	13.5
Cardiac catheterization . . . . . 37.21-37.23	41.1	50.2	32.4
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	11.7	12.3	11.2
Hemodialysis . . . . . 39.95	15.0	14.7	15.3
Operations on the hemic and lymphatic system . . . . . 40-41	12.7	13.0	12.3
Operations on the digestive system . . . . . 42-54	186.8	160.7	211.9
Endoscopy of small intestine with or without biopsy . . . . . 45.11-45.14,45.16	32.6	30.4	34.7
Endoscopy of large intestine with or without biopsy . . . . . 45.21-45.25	18.3	14.8	21.6
Partial excision of large intestine . . . . . 45.7	8.1	7.8	8.4
Appendectomy, excluding incidental . . . . . 47.0	9.7	10.8	8.6
Cholecystectomy . . . . . 51.2	16.4	10.2	22.2
Lysis of peritoneal adhesions . . . . . 54.5	11.4	4.2	18.4
Operations on the urinary system . . . . . 55-59	36.6	37.3	35.9
Cystoscopy with or without biopsy . . . . . 57.31-57.33	7.1	9.0	5.3
Operations on the male genital organs . . . . . 60-64	11.7	23.9	...
Prostatectomy . . . . . 60.2-60.6	8.3	16.9	...
Operations on the female genital organs . . . . . 65-71	76.5	...	149.7
Oophorectomy and salpingo-oophorectomy . . . . . 65.3-65.6	17.8	...	34.8
Bilateral destruction or occlusion of fallopian tubes . . . . . 66.2-66.3	12.0	...	23.5
Hysterectomy . . . . . 68.3-68.7,68.9	22.3	...	43.7
Obstetrical procedures . . . . . 72-75	247.1	...	483.9
Episiotomy with or without forceps or vacuum extraction . . . . . 72.1,72.21,72.31,72.71,73.6	43.7	...	85.7
Artificial rupture of membranes . . . . . 73.0	28.6	...	55.9
Cesarean section . . . . . 74.0-74.2,74.4,74.99	30.3	...	59.4
Repair of current obstetric laceration . . . . . 75.5-75.6	40.0	...	78.3
Operations on the musculoskeletal system . . . . . 76-84	117.3	115.5	119.1
Partial excision of bone . . . . . 76.2-76.3,77.6-77.8	7.9	8.3	7.5
Reduction of fracture . . . . . 76.7,79.0-79.3	23.7	22.5	24.9
Open reduction of fracture with internal fixation . . . . . 79.3	15.8	14.2	17.4
Excision or destruction of intervertebral disc . . . . . 80.5	10.8	12.4	9.3
Total hip replacement . . . . . 81.51	5.3	4.3	6.3
Total knee replacement . . . . . 81.54	9.6	6.8	12.3
Operations on the integumentary system . . . . . 85-86	45.1	43.1	47.0
Debridement of wound, infection, or burn . . . . . 86.22,86.28	11.5	14.2	9.0
Miscellaneous diagnostic and therapeutic procedures . . . . . 87-99	467.0	465.2	468.6
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	35.6	35.8	35.4
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	70.2	81.4	59.6
Diagnostic ultrasound . . . . . 88.7	41.1	36.5	45.5
Respiratory therapy . . . . . 93.9,96.7	40.2	42.4	38.2
Insertion of endotracheal tube . . . . . 96.04	13.8	14.7	12.9
Injection or infusion of cancer chemotherapeutic substance . . . . . 99.25	10.2	9.8	10.7

... Category not applicable.

<sup>1</sup>See table 24 for comparison of number of procedures with number of discharges with procedures.



**Table 29. Number of all-listed procedures for discharges from short-stay hospitals by geographic region and procedure category: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	United States	Northeast	Midwest	South	West
All procedures . . . . .	40,509	9,681	8,922	13,263	8,643
Operations on the nervous system . . . . . 01-05	1,043	220	267	324	232
Spinal tap . . . . . 03.31	311	67	73	95	77
Operations on the endocrine system . . . . . 06-07	104	25	21	39	19
Operations on the eye . . . . . 08-16	135	*	20	*	26
Operations on the ear . . . . . 18-20	47	14	9	15	*9
Operations on the nose, mouth, and pharynx . . . . . 21-29	311	101	55	108	48
Operations on the respiratory system . . . . . 30-34	1,016	259	222	352	183
Bronchoscopy with or without biopsy . . . . . 33.21-33.24,33.27	284	71	60	103	50
Operations on the cardiovascular system . . . . . 35-39	5,382	1,219	1,245	1,934	984
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . . 36.0	686	138	172	238	139
Coronary artery bypass graft <sup>1</sup> . . . . . 36.1	607	154	152	190	111
Cardiac catheterization . . . . . 37.21-37.23	1,112	224	255	456	177
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	317	83	82	109	44
Hemodialysis . . . . . 39.95	406	84	70	164	88
Operations on the hemic and lymphatic system . . . . . 40-41	342	92	74	115	61
Operations on the digestive system . . . . . 42-54	5,052	1,173	1,188	1,739	952
Endoscopy of small intestine with or without biopsy . . . . . 45.11-45.14,45.16	882	188	213	332	150
Endoscopy of large intestine with or without biopsy . . . . . 45.21-45.25	494	127	113	171	83
Partial excision of large intestine . . . . . 45.7	220	50	54	69	46
Appendectomy, excluding incidental . . . . . 47.0	263	50	70	75	69
Cholecystectomy . . . . . 51.2	442	111	96	149	87
Lysis of peritoneal adhesions . . . . . 54.5	310	67	73	117	53
Operations on the urinary system . . . . . 55-59	990	238	221	358	172
Cystoscopy with or without biopsy . . . . . 57.31-57.33	192	54	47	67	25
Operations on the male genital organs . . . . . 60-64	317	80	78	102	57
Prostatectomy . . . . . 60.2-60.6	223	58	55	65	45
Operations on the female genital organs . . . . . 65-71	2,068	351	471	857	389
Oophorectomy and salpingo-oophorectomy . . . . . 65.3-65.6	481	80	121	195	85
Bilateral destruction or occlusion of fallopian tubes . . . . . 66.2-66.3	325	31	59	168	66
Hysterectomy . . . . . 68.3-68.7,68.9	603	97	154	252	100
Obstetrical procedures . . . . . 72-75	6,682	1,247	1,494	2,178	1,763
Episiotomy with or without forceps or vacuum extraction . . . . . 72.1,72.21,72.31,72.71,73.6	1,183	213	277	429	264
Artificial rupture of membranes . . . . . 73.0	772	128	223	176	246
Cesarean section . . . . . 74.0-74.2,74.4,74.99	820	138	161	343	178
Repair of current obstetric laceration . . . . . 75.5-75.6	1,082	184	253	349	296
Operations on the musculoskeletal system . . . . . 76-84	3,172	690	725	1,128	630
Partial excision of bone . . . . . 76.2-76.3,77.6-77.8	213	48	50	71	45
Reduction of fracture . . . . . 76.7,79.0-79.3	642	131	141	244	126
Open reduction of fracture with internal fixation . . . . . 79.3	428	83	101	163	81
Excision or destruction of intervertebral disc . . . . . 80.5	293	49	70	123	51
Total hip replacement . . . . . 81.51	144	32	40	40	31
Total knee replacement . . . . . 81.54	259	56	76	87	41
Operations on the integumentary system . . . . . 85-86	1,220	300	278	432	210
Debridement of wound, infection, or burn . . . . . 86.22,86.28	312	73	80	112	47
Miscellaneous diagnostic and therapeutic procedures . . . . . 87-99	12,628	3,631	2,557	3,534	2,906
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	963	337	*	199	268
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	1,900	368	469	766	297
Diagnostic ultrasound . . . . . 88.7	1,111	374	*	199	352
Respiratory therapy . . . . . 93.9,96.7	1,088	299	184	292	313
Insertion of endotracheal tube . . . . . 96.04	374	98	84	124	68
Injection or infusion of cancer chemotherapeutic substance . . . . . 99.25	276	98	55	76	48

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>See table 24 for comparison of number of procedures with number of discharges with procedures.



**Table 30. Rate of all-listed procedures for discharges from short-stay hospitals by geographic region and procedure category: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	United States	Northeast	Midwest	South	West
All procedures . . . . .	1,498.0	1,862.8	1,421.1	1,391.4	1,432.0
Operations on the nervous system . . . . . 01-05	38.6	42.3	42.5	34.0	38.5
Spinal tap . . . . . 03.31	11.5	12.8	11.7	9.9	12.7
Operations on the endocrine system . . . . . 06-07	3.9	4.8	3.3	4.1	3.2
Operations on the eye . . . . . 08-16	5.0	*	3.2	*	4.3
Operations on the ear . . . . . 18-20	1.7	2.7	1.4	1.6	*1.6
Operations on the nose, mouth, and pharynx . . . . . 21-29	11.5	19.5	8.7	11.3	7.9
Operations on the respiratory system . . . . . 30-34	37.6	49.8	35.3	36.9	30.4
Bronchoscopy with or without biopsy . . . . . 33.21-33.24,33.27	10.5	13.7	9.6	10.8	8.2
Operations on the cardiovascular system . . . . . 35-39	199.0	234.5	198.3	202.9	163.1
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . . 36.0	25.4	26.5	27.4	25.0	23.0
Coronary artery bypass graft <sup>1</sup> . . . . . 36.1	22.5	29.7	24.2	19.9	18.4
Cardiac catheterization . . . . . 37.21-37.23	41.1	43.1	40.6	47.8	29.4
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	11.7	16.0	13.0	11.5	7.2
Hemodialysis . . . . . 39.95	15.0	16.1	11.1	17.2	14.6
Operations on the hemic and lymphatic system . . . . . 40-41	12.7	17.7	11.7	12.1	10.2
Operations on the digestive system . . . . . 42-54	186.8	225.6	189.3	182.4	157.8
Endoscopy of small intestine with or without biopsy . . . . . 45.11-45.14,45.16	32.6	36.2	33.9	34.8	24.8
Endoscopy of large intestine with or without biopsy . . . . . 45.21-45.25	18.3	24.4	18.0	17.9	13.8
Partial excision of large intestine . . . . . 45.7	8.1	9.7	8.6	7.2	7.7
Appendectomy, excluding incidental . . . . . 47.0	9.7	9.6	11.1	7.8	11.4
Cholecystectomy . . . . . 51.2	16.4	21.3	15.2	15.7	14.4
Lysis of peritoneal adhesions . . . . . 54.5	11.4	12.8	11.6	12.3	8.7
Operations on the urinary system . . . . . 55-59	36.6	45.9	35.2	37.6	28.5
Cystoscopy with or without biopsy . . . . . 57.31-57.33	7.1	10.3	7.6	7.0	4.1
Operations on the male genital organs . . . . . 60-64	11.7	15.3	12.4	10.7	9.5
Prostatectomy . . . . . 60.2-60.6	8.3	11.1	8.8	6.9	7.4
Operations on the female genital organs . . . . . 65-71	76.5	67.5	75.0	89.9	64.5
Oophorectomy and salpingo-oophorectomy . . . . . 65.3-65.6	17.8	15.4	19.3	20.4	14.2
Bilateral destruction or occlusion of fallopian tubes . . . . . 66.2-66.3	12.0	5.9	9.4	17.7	11.0
Hysterectomy . . . . . 68.3-68.7,68.9	22.3	18.7	24.5	26.4	16.6
Obstetrical procedures . . . . . 72-75	247.1	240.0	237.9	228.5	292.1
Episiotomy with or without forceps or vacuum extraction . . . . . 72.1,72.21,72.31,72.71,73.6	43.7	41.0	44.1	45.0	43.7
Artificial rupture of membranes . . . . . 73.0	28.6	24.7	35.5	18.5	40.7
Cesarean section . . . . . 74.0-74.2,74.4,74.99	30.3	26.6	25.6	36.0	29.4
Repair of current obstetric laceration . . . . . 75.5-75.6	40.0	35.4	40.3	36.6	49.0
Operations on the musculoskeletal system . . . . . 76-84	117.3	132.8	115.4	118.3	104.4
Partial excision of bone . . . . . 76.2-76.3,77.6-77.8	7.9	9.2	7.9	7.4	7.4
Reduction of fracture . . . . . 76.7,79.0-79.3	23.7	25.1	22.5	25.6	20.9
Open reduction of fracture with internal fixation . . . . . 79.3	15.8	16.0	16.1	17.1	13.5
Excision or destruction of intervertebral disc . . . . . 80.5	10.8	9.4	11.2	12.9	8.4
Total hip replacement . . . . . 81.51	5.3	6.2	6.5	4.2	5.1
Total knee replacement . . . . . 81.54	9.6	10.7	12.1	9.1	6.8
Operations on the integumentary system . . . . . 85-86	45.1	57.7	44.3	45.3	34.8
Debridement of wound, infection, or burn . . . . . 86.22,86.28	11.5	14.0	12.8	11.7	7.9
Miscellaneous diagnostic and therapeutic procedures . . . . . 87-99	467.0	698.7	407.3	370.8	481.4
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	35.6	64.9	*	20.9	44.4
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	70.2	70.8	74.7	80.4	49.1
Diagnostic ultrasound . . . . . 88.7	41.1	71.9	*	20.9	58.3
Respiratory therapy . . . . . 93.9,96.7	40.2	57.5	29.4	30.6	51.9
Insertion of endotracheal tube . . . . . 96.04	13.8	18.9	13.3	13.0	11.3
Injection or infusion of cancer chemotherapeutic substance . . . . . 99.25	10.2	18.9	8.7	7.9	8.0

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>See table 24 for comparison of number of procedures with number of discharges with procedures.

**Table 31. Number, percent distribution, and rate of discharges and days of care, with average length of stay for females with deliveries discharged from short-stay hospitals, by type of delivery, age, and region: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Data are for discharges 10–54 years of age with *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD–9–CM) code V27, females with deliveries.]

Age and region	Number in thousands	Discharges percent distribution	Rate per 1,000 population	Number in thousands	Days of care percent distribution	Rate per 1,000 population	Average length of stay in days
All deliveries							
10–54 years	3,808	100.0	43.6	9,227	100.0	105.6	2.4
10–19 years	477	12.5	25.1	1,153	12.5	60.6	2.4
20–24 years	907	23.8	103.4	2,024	21.9	230.8	2.2
25–29 years	1,075	28.2	111.2	2,577	27.9	266.8	2.4
30–34 years	852	22.4	81.2	2,165	23.5	206.2	2.5
35–39 years	415	10.9	36.3	1,087	11.8	95.3	2.6
40–54 years	84	2.2	3.0	221	2.4	7.9	2.6
All regions	3,808	100.0	43.6	9,227	100.0	105.6	2.4
Northeast	621	16.3	37.2	1,730	18.7	103.6	2.8
Midwest	830	21.8	41.0	2,013	21.8	99.3	2.4
South	1,407	37.0	45.4	3,434	37.2	110.7	2.4
West	949	24.9	49.0	2,050	22.2	105.9	2.2
Vaginal deliveries <sup>1</sup>							
10–54 years	2,988	100.0	34.2	6,136	100.0	70.2	2.1
10–19 years	399	13.3	21.0	838	13.7	44.1	2.1
20–24 years	747	25.0	85.2	1,464	23.9	166.9	2.0
25–29 years	846	28.3	87.6	1,729	28.2	179.0	2.0
30–34 years	640	21.4	61.0	1,377	22.4	131.2	2.2
35–39 years	301	10.1	26.4	621	10.1	54.5	2.1
40–54 years	54	1.8	1.9	106	1.7	3.8	2.0
All regions	2,988	100.0	34.2	6,136	100.0	70.2	2.1
Northeast	483	16.2	28.9	1,105	18.0	66.2	2.3
Midwest	670	22.4	33.0	1,407	22.9	69.4	2.1
South	1,064	35.6	34.3	2,158	35.2	69.6	2.0
West	771	25.8	39.8	1,465	23.9	75.7	1.9
Cesarean deliveries <sup>2</sup>							
10–54 years	820	100.0	9.4	3,091	100.0	35.4	3.8
10–19 years	78	9.5	4.1	315	10.2	16.6	4.0
20–24 years	159	19.4	18.1	560	18.1	63.9	3.5
25–29 years	228	27.8	23.6	849	27.4	87.8	3.7
30–34 years	212	25.8	20.2	787	25.5	75.0	3.7
35–39 years	113	13.8	9.9	466	15.1	40.8	4.1
40–54 years	30	3.6	1.1	114	3.7	4.1	3.9
All regions	820	100.0	9.4	3,091	100.0	35.4	3.8
Northeast	138	16.9	8.3	625	20.2	37.4	4.5
Midwest	161	19.6	7.9	606	19.6	29.9	3.8
South	343	41.9	11.1	1,276	41.3	41.1	3.7
West	178	21.7	9.2	585	18.9	30.2	3.3

<sup>1</sup>Discharges of females with deliveries except those with cesarean deliveries.<sup>2</sup>Discharges of females with deliveries with ICD–9–CM procedure codes 74.0–74.2, 74.4, or 74.99.

**Table 32. Number and percent distribution of females with deliveries discharged from short-stay hospitals by length of stay and type of delivery and average length of stay by type of delivery: United States, selected years 1980–97**[Discharges of inpatients from non-Federal hospitals. Data are for discharges with *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD–9–CM) code V27, females with deliveries]

Length of stay and type of delivery	1980	1985	1990	1995	1997
Length of stay					
Number in thousands					
All deliveries . . . . .	3,762	3,854	4,025	3,766	3,808
Less than 1 day . . . . .	23	34	37	36	22
1 day . . . . .	216	373	623	1,368	929
2 days . . . . .	747	1,037	1,649	1,418	1,712
3 days . . . . .	1,205	1,140	900	606	743
4 days . . . . .	691	586	468	193	247
5–7 days . . . . .	726	598	282	100	102
8 days or more . . . . .	154	86	67	46	52
Vaginal deliveries <sup>1</sup> . . . . .	3,143	2,977	3,080	2,981	2,988
Less than 1 day . . . . .	23	33	35	34	21
1 day . . . . .	215	371	620	1,362	925
2 days . . . . .	743	1,030	1,624	1,271	1,558
3 days . . . . .	1,185	1,054	618	228	374
4 days . . . . .	618	338	106	39	57
5–7 days . . . . .	317	125	55	27	29
8 days or more . . . . .	42	26	23	21	24
Cesarean deliveries <sup>2</sup> . . . . .	619	877	945	785	820
Less than 1 day . . . . .	*	*	*	*	*
1 day . . . . .	*	*	*	*6	*
2 days . . . . .	*	*	25	147	154
3 days . . . . .	20	86	283	379	369
4 days . . . . .	73	249	361	154	190
5–7 days . . . . .	409	473	227	73	73
8 days or more . . . . .	112	60	44	25	29
Percent distribution					
All deliveries . . . . .	100.0	100.0	100.0	100.0	100.0
Less than 1 day . . . . .	0.6	0.9	0.9	1.0	0.6
1 day . . . . .	5.7	9.7	15.5	36.3	24.4
2 days . . . . .	19.9	26.9	41.0	37.7	44.9
3 days . . . . .	32.0	29.6	22.4	16.1	19.5
4 days . . . . .	18.4	15.2	11.6	5.1	6.5
5–7 days . . . . .	19.3	15.5	7.0	2.7	2.7
8 days or more . . . . .	4.1	2.2	1.7	1.2	1.4
Vaginal deliveries <sup>1</sup> . . . . .	100.0	100.0	100.0	100.0	100.0
Less than 1 day . . . . .	0.7	1.1	1.1	1.1	0.7
1 day . . . . .	6.8	12.5	20.1	45.7	31.0
2 days . . . . .	23.6	34.6	52.7	42.6	52.1
3 days . . . . .	37.7	35.4	20.1	7.6	12.5
4 days . . . . .	19.7	11.4	3.4	1.3	1.9
5–7 days . . . . .	10.1	4.2	1.8	0.9	1.0
8 days or more . . . . .	1.3	0.9	0.7	0.7	0.8
Cesarean deliveries <sup>2</sup> . . . . .	100.0	100.0	100.0	100.0	100.0
Less than 1 day . . . . .	*	*	*	*	*
1 day . . . . .	*	*	*	*0.8	*
2 days . . . . .	*	*	2.6	18.7	18.8
3 days . . . . .	3.2	9.8	29.9	48.3	45.0
4 days . . . . .	11.8	28.4	38.2	19.6	23.2
5–7 days . . . . .	66.1	53.9	24.0	9.3	8.9
8 days or more . . . . .	18.1	6.8	4.7	3.2	3.5
Average length of stay in days					
All deliveries . . . . .	3.8	3.3	2.8	2.1	2.4
Vaginal deliveries <sup>1</sup> . . . . .	3.2	2.7	2.3	1.7	2.1
Cesarean deliveries <sup>2</sup> . . . . .	6.5	5.2	4.5	3.6	3.8
Type of delivery					

\* Figure does not meet standard of reliability or precision.

<sup>1</sup>Discharges of females with deliveries except those with cesarean deliveries.<sup>2</sup>Discharges of females with deliveries with ICD–9–CM procedure codes 74.0–74.2, 74.4, or 74.99.

**Table 33. Number and rate of selected obstetrical procedures for females with deliveries discharged from short-stay hospitals: United States, selected years 1980–1997**

[Discharges from non-Federal hospitals. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD–9–CM). Data are for selected procedures performed on discharges with code V27, females with deliveries]

Procedure category and ICD–9–CM code	1980	1985	1990	1995	1997
Number of procedures in thousands					
All obstetrical procedures . . . . . 72–75	3,526	4,239	6,660	6,282	6,600
Episiotomy . . . . . 72.1,72.21,72.31,72.71,73.6	2,012	1,820	1,714	1,410	1,183
Forceps delivery <sup>1</sup> . . . . . 72.0–72.4,72.51,72.53,72.6,73.3	555	376	269	176	169
Vacuum extraction <sup>1</sup> . . . . . 72.7	22	66	190	279	287
Artificial rupture of membranes . . . . . 73.0	120	315	691	752	772
Medical induction of labor . . . . . 73.4	42	66	225	366	427
Manually assisted delivery . . . . . 73.5	70	193	750	866	1,222
Cesarean section . . . . . 74.0–74.2,74.4,74.99	619	877	945	785	820
Repair of current obstetric laceration . . . . . 75.5–75.6	350	543	789	961	1,080
Rate per 100 deliveries <sup>2</sup>					
All obstetrical procedures . . . . . 72–75	93.7	110.0	165.5	166.8	173.3
Artificial rupture of membranes . . . . . 73.0	3.2	8.2	17.2	20.0	20.3
Medical induction of labor . . . . . 73.4	1.1	1.7	5.6	9.7	11.2
Cesarean section . . . . . 74.0–74.2,74.4,74.99	16.5	22.7	23.5	20.8	21.5
Rate per 100 vaginal deliveries <sup>3</sup>					
Episiotomy . . . . . 72.1,72.21,72.31,72.71,73.6	64.0	61.1	55.6	47.2	39.5
Forceps delivery <sup>1</sup> . . . . . 72.0–72.4,72.51,72.53,72.6,73.3	17.6	12.5	8.6	5.8	5.5
Vacuum extraction <sup>1</sup> . . . . . 72.7	0.7	2.2	6.1	9.2	9.5
Manually assisted delivery . . . . . 73.5	2.2	6.5	24.3	29.0	40.7
Repair of current obstetric laceration . . . . . 75.5–75.6	11.1	18.1	25.5	32.0	35.9

<sup>1</sup>Forceps delivery and vacuum extraction with episiotomy are also included in the episiotomy category.

<sup>2</sup>Procedures per 100 discharges of females with deliveries.

<sup>3</sup>Procedures for females with vaginal deliveries per 100 discharges with vaginal deliveries. Vaginal deliveries are all deliveries except those with a cesarean section.

**Table 34. Number and rate of females with deliveries discharged from short-stay hospitals by type of delivery: United States, selected years 1980–1997**

[Discharges of inpatients from non-Federal hospitals. Data are for discharges with *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD–9–CM) code V27, females with deliveries]

Type of delivery	1980	1985	1990	1995	1997
Number in thousands					
Females with deliveries . . . . .	3,762	3,854	4,025	3,766	3,808
Previous cesarean delivery . . . . .	192	324	426	413	453
No previous cesarean delivery . . . . .	3,571	3,530	3,600	3,353	3,354
Vaginal deliveries . . . . .	3,143	2,977	3,080	2,981	2,988
Vaginal birth after cesarean delivery (VBAC) . . . . .	*6	21	87	147	156
Other vaginal deliveries . . . . .	3,137	2,956	2,993	2,835	2,832
Cesarean deliveries . . . . .	619	877	945	785	820
No previous cesarean delivery (primary) . . . . .	434	574	606	519	523
Previous cesarean delivery (repeat) . . . . .	185	303	339	266	297
Rate per 100 deliveries					
Cesarean deliveries per 100 deliveries . . . . .	16.5	22.7	23.5	20.8	21.5
Primary cesarean deliveries per 100 deliveries without previous cesarean delivery . . . . .	12.1	16.3	16.8	15.5	15.6
Repeat cesarean deliveries per 100 cesarean deliveries . . . . .	29.9	34.6	35.9	33.9	36.3
Vaginal birth after cesarean deliveries (VBAC) per 100 deliveries with previous cesarean delivery . . . . .	*3.4	6.6	20.4	35.5	34.5

\* Figure does not meet standard of reliability or precision.

NOTE: Previous cesarean deliveries are discharges with ICD–9–CM diagnostic code 654.2. Cesarean deliveries are discharges with ICD–9–CM procedure codes 74.0–74.2, 74.4 or 74.99.

**Table 35. Number and rate of females with deliveries discharged from short-stay hospitals by type of delivery, age, and region: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Data are for discharges 10–54 years of age with *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD–9–CM) code V27, females with deliveries]

Age and region	Cesarean deliveries			
	Total <sup>1</sup>	Primary <sup>2</sup>	Repeat <sup>3</sup>	VBAC <sup>4,5</sup>
Number in thousands				
10–54 years . . . . .	820	523	297	156
10–19 years . . . . .	78	70	8	*
20–24 years . . . . .	159	107	52	30
25–29 years . . . . .	228	146	82	44
30–34 years . . . . .	212	119	93	47
35–39 years . . . . .	113	63	50	25
40–54 years . . . . .	30	18	12	*
All regions . . . . .	820	523	297	156
Northwest . . . . .	138	96	42	21
Midwest . . . . .	161	101	60	37
South . . . . .	343	213	131	57
West . . . . .	178	113	65	42
Rate per 100 deliveries				
10–54 years . . . . .	21.5	15.6	36.3	34.5
10–19 years . . . . .	16.4	15.1	10.6	*
20–24 years . . . . .	17.6	13.0	32.4	36.7
25–29 years . . . . .	21.2	15.4	36.1	35.0
30–34 years . . . . .	24.8	16.7	43.9	33.7
35–39 years . . . . .	27.3	18.6	44.4	33.5
40–54 years . . . . .	35.4	26.4	39.4	*
All regions . . . . .	21.5	15.6	36.3	34.5
Northwest . . . . .	22.3	17.3	30.3	33.1
Midwest . . . . .	19.3	13.8	37.2	38.3
South . . . . .	24.4	17.4	38.1	30.2
West . . . . .	18.7	13.4	36.5	39.2

\*Figure does not meet standard of reliability or precision.

<sup>1</sup>Discharges with ICD–9–CM procedure codes 74.0–74.2, 74.4, or 74.99. Rate per 100 total deliveries.<sup>2</sup>Cesarean deliveries without ICD–9–CM diagnostic code 654.2. Rate per 100 deliveries without previous cesarean delivery.<sup>3</sup>Cesarean deliveries with ICD–9–CM diagnostic code 654.2. Rate per 100 cesarean deliveries.<sup>4</sup>VBAC is vaginal birth after cesarean delivery.<sup>5</sup>Vaginal deliveries with ICD–9–CM diagnostic code 654.2. Rate per 100 deliveries with previous cesarean delivery.

**Table 36. Number, percent distribution, and average length of stay for newborn infants discharged from short-stay hospitals by sex, geographic region, and health status: United States, 1997**

[Discharges of inpatients from non-Federal hospitals]

Sex, region, and health status	Discharges		Average length of stay in days
	Number in thousands	Percent distribution	
All newborn infants . . . . .	3,790	100.0	2.9
Sex			
Male . . . . .	1,931	51.0	3.0
Female . . . . .	1,859	49.0	2.9
Region			
Northeast . . . . .	605	16.0	3.5
Midwest . . . . .	851	22.4	2.7
South . . . . .	1,423	37.6	3.0
West . . . . .	911	24.0	2.7
Health status			
Well <sup>1</sup> . . . . .	2,326	61.4	1.8
Male . . . . .	1,128	29.8	1.8
Female . . . . .	1,198	31.6	1.8
Sick <sup>2</sup> . . . . .	1,464	38.6	4.7
Male . . . . .	803	21.2	4.6
Female . . . . .	661	17.4	5.0

<sup>1</sup>Without any illness or risk-related diagnoses.<sup>2</sup>With at least one illness or risk-related diagnosis, *International Classification of Diseases, 9th Revision, Clinical Modification* codes 001–999.**Table 37. Number and percent distribution of newborn infants discharged from short-stay hospitals by length of stay, and average length of stay by health status: United States, selected years 1980–97**

Length of stay and health status	1980	1985	1990	1995	1997
Length of stay					
	Number in thousands				
All newborn infants . . . . .	3,824	3,794	3,869	3,631	3,790
Less than 1 day . . . . .	69	84	79	87	68
1 day . . . . .	270	428	693	1,523	1,158
2 days . . . . .	842	1,057	1,624	1,145	1,635
3 days . . . . .	1,175	1,034	636	486	501
4 days . . . . .	618	528	447	134	164
5–7 days . . . . .	633	497	232	106	106
8 days or more . . . . .	218	167	157	149	158
	Percent distribution				
All newborn infants . . . . .	100.0	100.0	100.0	100.0	100.0
Less than 1 day . . . . .	1.8	2.2	2.0	2.4	1.8
1 day . . . . .	7.1	11.3	17.9	41.9	30.6
2 days . . . . .	22.0	27.9	42.0	31.5	43.2
3 days . . . . .	30.7	27.3	16.4	13.4	13.2
4 days . . . . .	16.2	13.9	11.6	3.7	4.3
5–7 days . . . . .	16.5	13.1	6.0	2.9	2.8
8 days or more . . . . .	5.7	4.4	4.1	4.1	4.2
Health status					
	Average length of stay in days				
All newborn infants . . . . .	4.3	3.8	3.3	2.8	2.9
Well <sup>1</sup> . . . . .	3.2	2.8	2.3	1.7	1.8
Sick <sup>2</sup> . . . . .	7.1	5.7	4.8	4.4	4.7

<sup>1</sup>Without any illness or risk-related diagnoses.<sup>2</sup>With at least one illness or risk-related diagnosis, *International Classification of Diseases, 9th Revision, Clinical Modification* codes 001–999.

**Table 38. Number of all-listed diagnoses for sick newborn infants discharged from short-stay hospitals by sex and selected diagnostic categories: United States, 1997**[Discharges of inpatients from non-Federal hospitals. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Diagnostic category and ICD-9-CM code	Both sexes	Male	Female
Number in thousands			
Sick newborn diagnoses . . . . . 001-999	2,718	1,535	1,183
Congenital anomalies . . . . . 740-759	236	138	98
Disorders relating to short gestation and unspecified low birthweight (prematurity) . . . . . 765	266	147	119
Disorders relating to long gestation and high birthweight . . . . . 766	209	127	83
Birth trauma . . . . . 767	153	92	62
Injuries to scalp . . . . . 767.1	91	56	35
Respiratory distress syndrome and other respiratory conditions of fetus and newborn . . . . . 769-770	369	212	157
Transitory tachypnea of newborn . . . . . 770.6	114	68	46
Infections specific to the perinatal period . . . . . 771	106	61	46
Hemolytic disease of fetus or newborn, due to isoimmunization, and other perinatal jaundice . . . . . 773-774	483	260	224
Neonatal jaundice associated with preterm delivery . . . . . 774.2	97	55	42
Unspecified fetal and neonatal jaundice . . . . . 774.6	324	176	148
Endocrine and metabolic disturbances specific to the fetus and newborn . . . . . 775	112	68	45

# Appendix

## Technical Notes

### Abstract Form

Figure I shows the medical abstract form used for the 1997 NHDS. The hospital number, medical record number, date of birth, and patient ZIP Code are confidential information and are not released to the public.

### Population Estimates

Population estimates used to compute rates are shown in table I. These estimates are for the U.S. civilian population, including institutionalized persons, as of July 1, 1997. They were provided by the U.S. Bureau of the Census and are consistent with population estimates in Population Division Release PPL-91R (U.S. Population Estimates by Age, Sex, Race and Hispanic Origin: 1990–1997). These estimates have been adjusted for the net underenumeration using the 1990 National Population Adjustment Matrix. This is a change from population data provided in reports of 1990–96 NHDS data, which were not adjusted for the underenumeration.

### Reliability of Estimates

The statistics presented in this report are based on sample surveys, and therefore may differ from the figures that would be obtained if a complete census had been taken. The standard error is primarily a measure of sampling variability that occurs by chance because only a sample rather than an entire universe is surveyed. Standard errors for the estimates from the NHDS were calculated with SUDAAN software, which takes into account the complex sample designs. A description of the software and the approach it uses has been published (14).

The chances are about 32 in 100 that an estimate from the samples would differ from a complete census by more than the standard error. The chances are 5 in 100 that the difference would be more than twice the standard error, and

about 1 in 100 that the difference would be more than 2.5 times as large as the standard error. The relative standard error (RSE) expresses the standard error as a percent of the estimate and can be multiplied by the estimate to obtain the standard error.

To derive approximate standard errors for the estimates in this report, first calculate the approximate RSE of the estimate using the parameters shown in table II. Then multiply the approximate RSE by the estimate. The approximate RSE of an estimate  $X$ , may be estimated from the formula:

$$\text{RSE}(X) = \sqrt{a + b/X}$$

where  $a$  and  $b$  are defined in table II. When multiplied by 100,  $\text{RSE}(X)$  is expressed as a percent of  $X$ .

The approximate RSE for a percent  $p$  in which the numerator is a subclass of the denominator may be calculated directly using the formula:

$$\text{RSE}(p) = \sqrt{b(1-p) / (pX)}$$

where  $100p$  is the percent of interest,  $X$  is the denominator of the percent, and  $b$  is the parameter  $b$  in the formula for approximating the  $\text{RSE}(X)$ . The values for  $b$  are given in table II. When multiplied by 100,  $\text{RSE}(p)$  is expressed as a percent of  $p$ . This approximation is valid if the RSE of the denominator is less than 5 percent or the RSE's of the numerator and denominator are both less than 10 percent (15,16).

The approximate RSE of a population-based rate is equivalent to the approximate RSE of the numerator (obtained by the method described above using figures from table II) if the denominator is an estimate produced by the U.S. Bureau of the Census for the total population or one or more of the age-sex groups of the total population.

The approximate RSE of a ratio ( $X/Y$ ) in which the numerator ( $X$ ) and the denominator ( $Y$ ) are both estimated from the same survey, but the numerator is not a subclass of the denominator, expressed as a percent of  $X/Y$ , is calculated using the formula:

$$\text{RSE}(X/Y) = \sqrt{[\text{RSE}(X)]^2 + [\text{RSE}(Y)]^2}$$

When multiplied by 100, the  $\text{RSE}(X/Y)$  is expressed as a percent of the ratio  $X/Y$ . This approximation is valid if the RSE of the denominator is less than 5 percent or the RSE's of both the numerator and denominator are both less than 10 percent (15,16).

### Definitions of Selected Terms

**Age**—Age refers to a patient's age at the birthday prior to admission to the hospital.

**Average length of stay**—The average length of stay is the mean length of stay for discharges. It is calculated by dividing the number of days of care by the number of discharges.

**Days of care**—Days of care are the total number of days a patient spent in the hospital. A stay of less than 1 day (patient admission and discharge on the same day) is counted as 1 day. For patients admitted and discharged on different days, the number of days of care is computed by counting all the days from (and including) the day of admission to (but not including) the day of discharge.

**Diagnosis**—A diagnosis is a disease or injury (or other factor that influences a patient's health status or causes contact with health services) that is listed on the medical record of the patient. The diagnosis established after study to be chiefly responsible for the admission of the patient to the hospital is the principal diagnosis. The first-listed diagnosis is the one specified as the principal diagnosis on the face sheet or discharge summary of the medical record. However, if the principal diagnosis is not specified, the first one listed on the face sheet or discharge summary of the medical record is used. The number of first-listed diagnoses is the same as the number of discharges. Data for all-listed diagnoses include first-listed diagnoses and other diagnoses appearing on the medical record. A minimum of one and a maximum of seven diagnoses are coded per discharge in NHDS. The HIV data (table 19) are for discharges with an HIV diagnosis listed in any position among the coded diagnoses.







**Table I. Adjusted civilian population by selected characteristics: United States, 1997**

	Both sexes	Male	Female
Population in thousands			
All ages			
Total . . . . .	270,430	132,332	138,098
Region:			
Northeast . . . . .	51,968	25,191	26,777
Midwest . . . . .	62,784	30,693	32,091
South . . . . .	95,320	46,274	49,046
West . . . . .	60,358	30,175	30,183
Under 15 years			
Total . . . . .	59,749	30,588	29,161
Under 1 year . . . . .	3,943	2,017	1,926
1–4 years . . . . .	15,882	8,128	7,754
5–14 years . . . . .	39,924	20,443	19,481
Region:			
Northeast . . . . .	10,804	5,533	5,271
Midwest . . . . .	13,651	6,992	6,658
South . . . . .	21,051	10,766	10,285
West . . . . .	14,243	7,298	6,946
15–44 years			
Total . . . . .	121,641	60,996	60,645
15–24 years . . . . .	37,256	19,012	18,244
25–34 years . . . . .	40,167	20,012	20,155
35–44 years . . . . .	44,218	21,972	22,246
Region:			
Northeast . . . . .	23,057	11,502	11,555
Midwest . . . . .	28,135	14,114	14,021
South . . . . .	42,723	21,161	21,562
West . . . . .	27,726	14,219	13,507
45–64 years			
Total . . . . .	55,265	26,810	28,455
45–54 years . . . . .	33,643	16,484	17,159
55–64 years . . . . .	21,622	10,326	11,296
Region:			
Northeast . . . . .	10,903	5,245	5,658
Midwest . . . . .	12,949	6,303	6,646
South . . . . .	19,699	9,476	10,223
West . . . . .	11,715	5,787	5,928
65 years and over			
Total . . . . .	33,775	13,938	19,837
65–74 years . . . . .	18,324	8,218	10,106
75–84 years . . . . .	11,606	4,610	6,996
85 years and over . . . . .	3,845	1,109	2,736
Region:			
Northeast . . . . .	7,203	2,911	4,292
Midwest . . . . .	8,050	3,283	4,766
South . . . . .	11,848	4,872	6,976
West . . . . .	6,674	2,871	3,802

NOTE: Data are based on U.S. Bureau of the Census estimates in Population Division Release PPL-91R and are adjusted for net underenumeration using the National Population Adjustment Matrix. This is a change from the populations provided in reports of 1990–96 data from the National Hospital Discharge Survey, which were not adjusted for the underenumeration.

**Discharge**—A discharge is a completed inpatient hospitalization. A hospitalization may be completed by death or by releasing the patient to the customary place of residence, a nursing home, another hospital, or other locations.

**Fatality rate**—The fatality rate is calculated by dividing the number of deaths for a category by the total number of discharges in that category and multiplying by 100. Discharges whose status is unknown (0.8 percent) were assumed to be discharged alive.

**Hospital**—Hospitals include those with an average length of stay for all patients of less than 30 days (short stay) or those whose speciality is general (medical or surgical) or children’s general. Federal hospitals, hospital units of institutions, and hospitals with less than six beds staffed for patient use are excluded.

**Newborn infant**—Newborn infants are defined as patients admitted to a hospital by birth. Sick newborn infants are those that had at least one of the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD–9–CM) (12)* diagnostic codes 001–999.

**Procedure**—Procedures include surgical procedures (such as tonsillectomy), diagnostic procedures (such as cystoscopy), and therapeutic treatments (such as injection or infusion of cancer chemotherapeutic substance) reported on a patient’s medical record. Data are for all-listed procedures, which include all occurrences of the procedure coded, regardless of their order in the medical record. Up to four procedures were coded per discharge in NHDS. The procedures classified as nonsurgical in this report are listed in [table III](#) by ICD–9–CM code numbers. All other procedures were considered surgical. This classification was begun in 1979 for the presentation of NHDS data. The distinction between surgical and nonsurgical procedures has become less meaningful in the last 2 decades with the development of minimally invasive and noninvasive procedures. The procedures classified as nonsurgical may not have less operative or anesthetic risk or require less highly trained personnel or special equipment than those classified as surgical.

**Region**—Hospitals are classified by location in one of the four geographic regions of the United States that correspond to those used by the U.S. Bureau of the Census.

Region	States included
Northeast	Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, and Pennsylvania

Midwest	Michigan, Ohio, Illinois, Indiana, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas	South	Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and Texas	West	Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, California, Hawaii, and Alaska
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**Table II. Estimated parameters for approximate relative standard error equations for National Hospital Discharge Survey statistics by selected characteristics, 1997**

	Number of discharges or first-listed diagnoses		Number of all-listed diagnoses		Number of days of care		Number of all-listed procedures	
	a	b	a	b	a	b	a	b
Total	0.00132	313.983	0.00271	428.987	0.00242	1,036.029	0.00288	323.247
Sex								
Male	0.00148	335.128	0.00214	307.917	0.00299	1,309.507	0.00268	380.213
Female	0.00127	325.984	0.00127	311.394	0.00252	1,060.275	0.00197	299.725
Age								
Under 15 years	0.01470	181.262	0.01617	223.921	0.02393	346.675	0.02639	196.719
15–44 years	0.00137	294.357	0.00151	309.115	0.00285	934.043	0.00219	305.574
45–64 years	0.00138	301.320	0.00290	370.245	0.00284	1,248.476	0.00235	298.267
65 years and over	0.00147	343.779	0.00144	361.717	0.00275	1,866.761	0.00239	292.252
Region								
Northeast	0.00384	195.564	0.00592	239.709	0.00863	495.447	0.00695	219.126
Midwest	0.00609	191.492	0.00853	180.424	0.00866	481.071	0.00870	163.190
South	0.00369	320.084	0.00307	341.005	0.00572	1,581.301	0.00498	274.548
West	0.00513	338.516	0.00508	378.827	0.01008	926.285	0.00663	288.835

NOTE: The relative standard error (RSE) can be determined from the equation  $RSE(x) = \sqrt{a + b/x}$ .

**Table III. Code numbers for procedures considered nonsurgical in the National Hospital Discharge Survey by ICD–9–CM category, 1997**

[Procedure categories and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD–9–CM)*]

Procedure category and ICD–9–CM code	Nonsurgical codes
Operations on the nervous system . . . . . 01–05	01.18–01.19,03.31,03.39,04.19,05.19
Operations on the endocrine system . . . . . 06–07	06.19, 07.19
Operations on the eye . . . . . 08–16	08.19,09.19,09.41–09.49,10.29,11.29,12.29,14.19,15.09,16.21,16.29
Operations on the ear . . . . . 18–20	18.01,18.11,18.19,20.31,20.39
Operations on the nose, mouth, and pharynx . . . . . 21–29	21.00–21.02,21.21,21.29,22.19,24.19,25.09,26.19,27.29,28.19,29.11,29.19
Operations on the respiratory system . . . . . 30–34	31.41–31.42,31.48–31.49,33.21–33.23,33.29,34.21–34.22,34.28–34.29
Operations on the cardiovascular system . . . . . 35–39	37.26–37.27,37.29,38.29,39.95
Operations on the hemic and lymphatic system . . . . . 40–41	40.19,41.38–41.39
Operations on the digestive system . . . . . 42–54	42.22–42.23,42.29,44.11–44.13,44.19,45.11–45.13,45.19,45.21–45.24,45.28–45.29,48.21–48.23,48.29,49.21,49.29,50.19,51.10–51.11,51.19,52.19,54.21,54.29
Operations on the urinary system . . . . . 55–59	55.21–55.22,55.29,56.31,56.35,56.39,57.31–57.32,57.39,57.94–57.95,58.21–58.22,58.29,59.29
Operations on the male genital organs . . . . . 60–64	60.18–60.19,61.19,62.19,63.09,64.19, 64.94
Operations on the female genital organs . . . . . 65–71	65.19,66.19,67.19,68.11,68.19,69.92,70.21–70.22,70.29,71.19
Obstetrical procedures . . . . . 72–75	73.4–73.59,73.91–73.92,75.31–75.32,75.34–75.35,75.94
Operations on the musculoskeletal system . . . . . 76–84	76.19,78.80–78.89,80.20–80.29,81.98,83.29,84.41–84.43,84.45–84.47
Operations on the integumentary system . . . . . 85–86	85.19,86.19,86.92
Miscellaneous diagnostic and therapeutic procedures . . . . . 87–99	87.01–99.99

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