

Series 13  
No. 140



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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, 1996

January 1999

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

**CDC**  
CENTERS FOR DISEASE CONTROL  
AND PREVENTION

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## National Hospital Discharge Survey: Annual Summary, 1996

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Care Survey  
No. 140

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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  
January 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 the 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 survey and collecting the data.

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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 1996 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 (NHDS). The survey has been conducted annually by the National Center for Health Statistics (NCHS) since 1965. In 1996, data were collected for approximately 282,000 discharges. Of the 507 eligible non-Federal short-stay hospitals in the sample, 480 (95 percent) responded to the survey. Diagnoses and procedures are 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, 1996

by Edmund J. Graves and Lola Jean Kozak, Division of Health Care Statistics

## Highlights

- During 1996 there were an estimated 30.5 million discharges of inpatients from non-Federal short-stay hospitals, excluding newborn infants. These patients used an estimated 159.9 million days of care.
- Patients 65 years of age and over comprise 13 percent of the population, but they accounted for 38 percent of all discharges and used 48 percent of all days of care.
- In 1996, deaths accounted for 3 percent of all discharges.
- Deliveries and heart disease combined accounted for 8 million discharges and made up 26 percent of all first-listed diagnoses.
- Heart disease was the first-listed diagnosis for 23 percent of discharges for patients 65 years of age and over.
- In 1996, 73 percent of all human immunodeficiency virus (HIV) discharges were male and 71 percent were 25–44 years of age.
- First-listed diagnoses of heart disease and malignant neoplasms accounted for 36 percent of deaths in short-stay hospitals.
- At least one procedure was reported for 63 percent of discharges.
- Three surgical procedures performed 1 million times or more were episiotomy, cardiac catheterization, and repair of current obstetric laceration.
- Four nonsurgical procedures performed 1 million times or more were arteriography and angiography using contrast material, diagnostic ultrasound, respiratory therapy, and manually assisted delivery.
- In 1996, 73 percent of women with deliveries were hospitalized for less than 3 days, compared with only 26 percent in 1980.
- The number of obstetrical procedures per 100 deliveries increased from 93.7 in 1980 to 169.0 in 1996.
- The 1996 cesarean rate was 21.8, the primary rate was 15.7, and the rate of vaginal birth after cesarean delivery (VBAC) was 33.6.
- An estimated 3.9 million newborn infants were discharged from short-stay hospitals after average stays of 3.0 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. Elaine Wood of the Hospital Care Statistics Branch verified the data and assisted in developing the content of the report. Rong Cai of the OAO Corporation produced estimated parameters for relative standard error equations. Rong Cai and Flora Lan, also of the OAO Corporation, did the computer programming for the report. The report was edited by Gail V. Johnson and typeset by Annette F. Holman of the Publications Branch, Division of Data Services.

## Introduction

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This report presents data from the 1996 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 the NHDS are published for each calendar year by NCHS. This report provides a summary of the 1996 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 1996 NHDS have been published in other NCHS reports (1,2).

The NHDS is the principal source for national data on the characteristics of patients discharged from non-Federal short-stay hospitals. Data from the 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. In 1994, 1995, and 1996, data on ambulatory surgery were collected by means of another survey conducted by NCHS, the National Survey of Ambulatory Surgery (NSAS). The NSAS covered ambulatory surgery in hospitals and freestanding centers. NCHS has published summary data from the NSAS (8) and combined data on procedures from the NSAS and NHDS (9). NSAS data are not included in the tables of this report.

This report differs somewhat from previous annual summaries for NHDS. Previously, tables were presented in two main groups: text tables A–R were shown with summary text, and detailed tables 1–29 were included after the text. Because of changes in the format of NCHS reports and in order to expedite the production of the annual summaries,

**Table A. Guide to reorganization of tables**

1995 report <sup>1</sup> table	1996 report table	1995 report <sup>1</sup> table	1996 report table
A	1	11	12
B	5	12	Not included
C	6	13	Not included
D	21	14	Not included
E	22	15	13
F	22	16	14
G	23	17	15
H	23	18	16
J	19	19	17
K	4	20	Not included
L	20	21	18
M	Not included	22	25
N	36	23	26
O	37	24	27
P	36	25	28
Q	38	26	Not included
R	32	27	Not included
		28	29
1	2	29	30
2	Not included		
3	Not included	I	Not included
4	3	II	I
5	31	III	II
6	7	IV	III
7	8		
8	9	Not included	24
9	10	Not included	33
10	11	Not included	34
		Not included	35

<sup>1</sup>Gillum BS, Graves EJ, and Wood E. National Hospital Discharge Survey: Annual summary, 1995. National Center for Health Statistics. Vital Health Stat 13(133). 1998.

tables 1–38 are grouped together after the text in this report.

**Table A** lists the tables in the 1995 NHDS annual summary and shows the number of the corresponding table in this report. Certain tables that were in the 1995 report are not included in this report. These tables were deleted because of lack of demand for the data, or because of concerns about the quality of the data. Tables that showed hospital use by race were deleted because of the continuing extensive underreporting of race (10). In 1996, race was not identified for 23 percent of the records sampled in the NHDS. Tables that showed hospital use by expected principal source of payment were deleted because of concerns about clearly defining payment categories with available data.

Four new tables were added to the 1996 report to respond to requests for additional information. **Table 24** provides a comparison of discharges and

procedures for two frequent coronary artery procedures. **Tables 33–35** show data on obstetrical procedures and vaginal and cesarean deliveries.

## Methods

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### Data Source

**N**HDS 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, the 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 (11–13).

The NHDS used a two-stage design until 1988 when it was redesigned (14). Beginning in 1988, all hospitals with 1,000 beds or more or 40,000 discharges or more annually were included in the sample with certainty. The remaining sample of hospitals was based on a stratified three-stage design. The first stage 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 (NHIS) (15). 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 1996, the sample consisted of 525 hospitals, 18 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 507 in-scope (eligible) hospitals, 480 (95 percent) responded to the survey. Data were collected for approximately 282,000 patient discharges from the 480 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 1996, approximately 38 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. The 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) (16).

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 5 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 1996 data year was 3.0 percent for medical (ICD-9-CM) coding and data entry and 0.6 percent for demographic coding and data entry.

## Estimation

The probability sample design of the NHDS required that the survey data 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
3. population weighting ratio adjustments

These three components of the final weight were described in more detail in an earlier report (17). Information about the standard errors of statistics for the 1996 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 1–4 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.

Most diagnostic tables show the first-listed diagnosis, which is the one specified as the principal diagnosis on the face sheet or discharge summary of the medical record. However, if the principal diagnosis was not specified, it is the first one listed on the face sheet or discharge summary of the medical record. Data for all-listed diagnoses, shown in tables 16–18, include the first-listed diagnosis and other diagnoses appearing in the medical record. A minimum of one and a maximum of seven diagnoses were coded for each discharge. Table 19 presents data for discharges with a HIV diagnosis listed in any position among the coded diagnoses.

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 the NHDS, these diagnoses were not well reported in the survey and therefore were excluded from this report.

Estimates of procedures shown in this report include surgical procedures (such as appendectomy), diagnostic procedures (such as diagnostic ultrasound), and therapeutic procedures (such as respiratory therapy). Data for all-listed procedures include all occurrences of the procedure coded, regardless of their order in the medical record. Up to four procedures were coded for each discharge.

In tables 22 and 23 procedures are classified as surgical or nonsurgical. The ICD-9-CM codes for nonsurgical procedures are listed in table I in the appendix. 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 two decades with the development of minimally invasive and noninvasive procedures. The procedures classified as nonsurgical did not necessarily have less operative or anesthetic risk or require less highly trained personnel or special equipment than those classified as surgical.

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. 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. The result, as seen in table 24, is that the number of these procedures counted greatly exceeded the number of inpatients who had one or more of the procedures.

Fatality rates, shown in tables 4 and 20, were computed by dividing the number of deaths for a category by the total number of discharges for that category and multiplying by 100. These rates are conservative because all the discharges whose status was not stated (1.2 percent) were assumed to be discharged alive. Hospital fatality rates differ from mortality rates, which reflect complete reporting of deaths in the population regardless of where the death occurred. In addition, mortality data 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, defined as patients admitted to a hospital by birth,

are in tables 36–38. Newborn infants are excluded from all other tables in the report. Because estimates of newborn infants were based on a sample and 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. Sick newborn infants are those that had at least one of the ICD-9-CM diagnostic codes 001–999. The definitions of other terms related to NHDS data can be found in earlier reports (17).

Because of low reliability, estimates less than 5,000 and measures based on these estimates (rates, percents, and average lengths of stay) are not presented. For such estimates, only an asterisk (\*) appears in the tables. These estimates generally have a relative standard error of more than 30 percent or are based on a sample of fewer than 30 cases. Estimates of 5,000 to 9,000 (and measures based on these estimates) are preceded by an asterisk (\*) to indicate that they are generally based on fewer than 60 cases and also have low reliability.

Estimates have been rounded to the nearest thousand. For this reason, 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 in computing rates are shown in table II in the appendix.

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**Table 1. Number and rate of discharges from short-stay hospitals and of days of care and average length of stay, by age: United States, selected years, 1970–96**

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

Age	1970	1975	1980	1985	1990	1995	1996
Number of discharges in thousands							
All ages . . . . .	29,127	34,043	37,832	35,056	30,788	30,722	30,545
Under 15 years . . . . .	3,873	3,826	3,672	2,972	2,412	2,405	2,207
15–44 years . . . . .	12,664	14,171	15,635	13,966	11,799	10,593	10,325
45–64 years . . . . .	6,693	8,391	8,660	7,610	6,244	6,168	6,294
65 years and over . . . . .	5,897	7,654	9,864	10,508	10,333	11,556	11,718
65–74 years . . . . .	3,163	4,057	4,943	5,011	4,689	4,832	4,804
75–84 years . . . . .	2,099	2,728	3,611	3,969	3,949	4,590	4,724
85 years and over . . . . .	635	869	1,310	1,528	1,694	2,134	2,190
Rate of discharges per 1,000 population							
All ages . . . . .	144.3	159.2	167.7	148.4	124.3	117.5	115.7
Under 15 years . . . . .	66.8	70.4	71.6	57.7	44.6	41.7	38.2
15–44 years . . . . .	154.6	152.4	150.1	125.0	101.6	89.8	87.0
45–64 years . . . . .	159.6	191.8	194.8	170.8	135.0	118.2	117.2
65 years and over . . . . .	293.3	337.3	383.7	369.8	330.9	344.6	346.1
65–74 years . . . . .	253.2	291.5	315.8	297.3	259.1	257.6	257.3
75–84 years . . . . .	339.5	392.1	463.9	446.4	391.8	411.9	413.3
85 years and over . . . . .	443.7	477.1	576.4	572.9	555.7	588.2	582.2
Number of days of care in thousands							
All ages . . . . .	226,445	262,389	274,508	226,217	197,422	164,627	159,883
Under 15 years . . . . .	18,189	17,554	16,191	13,554	11,655	10,715	10,064
15–44 years . . . . .	71,605	80,687	81,951	67,397	54,062	40,825	39,645
45–64 years . . . . .	62,419	75,393	71,008	53,541	42,153	34,207	33,521
65 years and over . . . . .	74,232	88,754	105,358	91,726	89,552	78,880	76,652
65–74 years . . . . .	37,873	44,963	49,253	41,090	37,422	31,310	29,942
75–84 years . . . . .	27,633	32,906	40,355	36,024	35,926	31,974	31,396
85 years and over . . . . .	8,726	10,886	15,750	14,612	16,204	15,597	15,314
Rate of days of care per 1,000 population							
All ages . . . . .	1,121.6	1,227.3	1,216.7	957.7	796.9	629.8	605.6
Under 15 years . . . . .	313.9	322.9	315.7	263.0	215.4	185.6	174.4
15–44 years . . . . .	874.0	867.9	786.8	603.3	465.3	346.0	333.9
45–64 years . . . . .	1,488.8	1,723.0	1,596.9	1,201.6	911.5	655.6	624.3
65 years and over . . . . .	3,691.9	3,910.6	4,098.4	3,228.0	2,867.7	2,352.4	2,263.7
65–74 years . . . . .	3,031.6	3,230.8	3,147.0	2,437.3	2,067.0	1,669.0	1,603.9
75–84 years . . . . .	4,469.2	4,729.2	5,183.7	4,052.2	3,564.1	2,868.9	2,746.8
85 years and over . . . . .	6,102.1	5,978.1	6,932.1	5,478.7	5,314.7	4,299.1	4,070.6
Average length of stay in days							
All ages . . . . .	7.8	7.7	7.3	6.5	6.4	5.4	5.2
Under 15 years . . . . .	4.7	4.6	4.4	4.6	4.8	4.5	4.6
15–44 years . . . . .	5.7	5.7	5.2	4.8	4.6	3.9	3.8
45–64 years . . . . .	9.3	9.0	8.2	7.0	6.8	5.5	5.3
65 years and over . . . . .	12.6	11.6	10.7	8.7	8.7	6.8	6.5
65–74 years . . . . .	12.0	11.1	10.0	8.2	8.0	6.5	6.2
75–84 years . . . . .	13.2	12.1	11.2	9.1	9.1	7.0	6.6
85 years and over . . . . .	13.7	12.5	12.0	9.6	9.6	7.3	7.0

**Table 2. Number, percent distribution, and rate of discharges from short-stay hospitals and of days of care, with average lengths of stay, by sex and age: United States, 1996**

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

Sex and age	Discharges			Days of care			
	Number in thousands	Percent distribution	Rate per 1,000 population	Number in thousands	Percent distribution	Rate per 1,000 population	Average length of stay in days
<b>Both sexes</b>							
All ages . . . . .	30,545	100.0	115.7	159,883	100.0	605.6	5.2
Under 15 years . . . . .	2,207	7.2	38.2	10,064	6.3	174.4	4.6
Under 1 year . . . . .	736	2.4	195.3	4,349	2.7	1,154.0	5.9
1–4 years . . . . .	649	2.1	41.8	2,172	1.4	140.0	3.3
5–14 years . . . . .	822	2.7	21.4	3,544	2.2	92.2	4.3
15–44 years . . . . .	10,325	33.8	87.0	39,645	24.8	333.9	3.8
15–19 years . . . . .	1,202	3.9	64.7	4,195	2.6	225.9	3.5
20–24 years . . . . .	1,647	5.4	95.9	5,037	3.2	293.4	3.1
25–34 years . . . . .	4,077	13.3	102.3	14,350	9.0	359.9	3.5
35–44 years . . . . .	3,399	11.1	78.8	16,063	10.0	372.5	4.7
45–64 years . . . . .	6,294	20.6	117.2	33,521	21.0	624.3	5.3
45–54 years . . . . .	3,077	10.1	95.1	15,745	9.8	486.9	5.1
55–64 years . . . . .	3,218	10.5	150.6	17,776	11.1	832.2	5.5
65 years and over . . . . .	11,718	38.4	346.1	76,652	47.9	2,263.7	6.5
65–74 years . . . . .	4,804	15.7	257.3	29,942	18.7	1,603.9	6.2
75–84 years . . . . .	4,724	15.5	413.3	31,396	19.6	2,746.8	6.6
85 years and over . . . . .	2,190	7.2	582.2	15,314	9.6	4,070.6	7.0
Under 17 years . . . . .	2,574	8.4	39.4	11,572	7.2	177.2	4.5
17–69 years . . . . .	18,478	60.5	105.8	84,943	53.1	486.2	4.6
70 years and over . . . . .	9,492	31.1	396.0	63,367	39.6	2,643.7	6.7
<b>Male</b>							
All ages . . . . .	12,110	100.0	94.1	69,928	100.0	543.4	5.8
Under 15 years . . . . .	1,240	10.2	42.0	5,710	8.2	193.2	4.6
Under 1 year . . . . .	414	3.4	214.8	2,491	3.6	1,292.1	6.0
1–4 years . . . . .	374	3.1	47.1	1,199	1.7	150.9	3.2
5–14 years . . . . .	452	3.7	23.0	2,020	2.9	102.7	4.5
15–44 years . . . . .	2,831	23.4	47.7	15,604	22.3	263.2	5.5
15–19 years . . . . .	307	2.5	32.2	1,469	2.1	153.9	4.8
20–24 years . . . . .	290	2.4	33.5	1,520	2.2	175.5	5.2
25–34 years . . . . .	861	7.1	43.6	4,767	6.8	241.3	5.5
35–44 years . . . . .	1,372	11.3	64.3	7,849	11.2	368.0	5.7
45–64 years . . . . .	3,138	25.9	120.8	17,107	24.5	658.8	5.5
45–54 years . . . . .	1,480	12.2	93.7	7,793	11.1	493.1	5.3
55–64 years . . . . .	1,658	13.7	163.1	9,314	13.3	916.3	5.6
65 years and over . . . . .	4,901	40.5	353.1	31,507	45.1	2,269.8	6.4
65–74 years . . . . .	2,253	18.6	270.6	13,947	19.9	1,675.3	6.2
75–84 years . . . . .	1,980	16.4	441.4	13,060	18.7	2,911.2	6.6
85 years and over . . . . .	668	5.5	624.6	4,500	6.4	4,206.1	6.7
Under 17 years . . . . .	1,365	11.3	40.8	6,263	9.0	187.1	4.6
17–69 years . . . . .	6,919	57.1	80.6	38,714	55.4	451.0	5.6
70 years and over . . . . .	3,826	31.6	408.2	24,951	35.7	2,661.7	6.5

**Table 2. Number, percent distribution, and rate of discharges from short-stay hospitals and of days of care, with average lengths of stay, by sex and age: United States, 1996—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							
All ages . . . . .	18,435	100.0	136.2	89,955	100.0	664.8	4.9
Under 15 years . . . . .	967	5.2	34.3	4,355	4.8	154.6	4.5
Under 1 year . . . . .	322	1.7	174.9	1,858	2.1	1,009.3	5.8
1–4 years . . . . .	275	1.5	36.2	973	1.1	128.4	3.5
5–14 years . . . . .	370	2.0	19.7	1,523	1.7	81.3	4.1
15–44 years . . . . .	7,495	40.7	126.1	24,041	26.7	404.4	3.2
15–19 years . . . . .	895	4.9	99.1	2,727	3.0	302.0	3.0
20–24 years . . . . .	1,357	7.4	159.5	3,517	3.9	413.6	2.6
25–34 years . . . . .	3,216	17.4	159.9	9,583	10.7	476.5	3.0
35–44 years . . . . .	2,027	11.0	93.0	8,214	9.1	376.9	4.1
45–64 years . . . . .	3,156	17.1	113.8	16,414	18.2	592.0	5.2
45–54 years . . . . .	1,596	8.7	96.6	7,952	8.8	481.0	5.0
55–64 years . . . . .	1,560	8.5	139.3	8,462	9.4	755.9	5.4
65 years and over . . . . .	6,817	37.0	341.2	45,145	50.2	2,259.5	6.6
65–74 years . . . . .	2,551	13.8	246.6	15,996	17.8	1,546.2	6.3
75–84 years . . . . .	2,744	14.9	395.2	18,336	20.4	2,640.6	6.7
85 years and over . . . . .	1,522	8.3	565.3	10,813	12.0	4,016.8	7.1
Under 17 years . . . . .	1,210	6.6	38.0	5,309	5.9	166.7	4.4
17–69 years . . . . .	11,559	62.7	130.1	46,229	51.4	520.2	4.0
70 years and over . . . . .	5,666	30.7	388.2	38,417	42.7	2,632.0	6.8

**Table 3. Number and rate of discharges from short-stay hospitals and days of care, with average lengths of stay, by sex, age, and geographic region: United States, 1996**

[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						
<b>All ages:</b>						
United States . . . . .	30,545	115.7	159,883	605.6	5.2	
Northeast . . . . .	6,665	129.4	41,343	802.5	6.2	
Midwest . . . . .	7,107	114.7	35,574	573.9	5.0	
South . . . . .	11,085	120.0	57,392	621.3	5.2	
West . . . . .	5,688	97.9	25,574	440.0	4.5	
<b>Under 15 years:</b>						
United States . . . . .	2,207	38.2	10,064	174.4	4.6	
Northeast . . . . .	575	54.3	2,836	267.4	4.9	
Midwest . . . . .	509	37.9	2,221	165.2	4.4	
South . . . . .	642	32.0	2,866	142.6	4.5	
West . . . . .	480	35.4	2,142	157.9	4.5	
<b>15–44 years:</b>						
United States . . . . .	10,325	87.0	39,645	333.9	3.8	
Northeast . . . . .	2,134	93.4	10,274	449.9	4.8	
Midwest . . . . .	2,241	80.6	8,060	290.0	3.6	
South . . . . .	3,823	92.3	14,427	348.3	3.8	
West . . . . .	2,127	79.7	6,884	258.0	3.2	
<b>45–64 years:</b>						
United States . . . . .	6,294	117.2	33,521	624.3	5.3	
Northeast . . . . .	1,390	129.1	8,353	776.1	6.0	
Midwest . . . . .	1,372	108.8	6,790	538.3	4.9	
South . . . . .	2,469	129.7	13,287	698.0	5.4	
West . . . . .	1,064	94.3	5,092	451.3	4.8	
<b>65 years and over:</b>						
United States . . . . .	11,718	346.1	76,652	2,263.7	6.5	
Northeast . . . . .	2,566	350.8	19,880	2,717.3	7.7	
Midwest . . . . .	2,985	367.2	18,503	2,276.5	6.2	
South . . . . .	4,151	351.1	26,811	2,267.5	6.5	
West . . . . .	2,016	305.7	11,457	1,737.5	5.7	
Male						
<b>All ages:</b>						
United States . . . . .	12,110	94.1	69,928	543.4	5.8	
Northeast . . . . .	2,807	112.9	18,552	746.0	6.6	
Midwest . . . . .	2,880	95.3	15,676	518.9	5.4	
South . . . . .	4,289	95.9	24,787	554.3	5.8	
West . . . . .	2,134	73.9	10,913	377.7	5.1	
<b>Under 15 years:</b>						
United States . . . . .	1,240	42.0	5,710	193.2	4.6	
Northeast . . . . .	327	60.3	1,717	316.0	5.2	
Midwest . . . . .	298	43.3	1,328	192.7	4.5	
South . . . . .	344	33.5	1,561	151.8	4.5	
West . . . . .	271	39.0	1,105	159.0	4.1	
<b>15–44 years:</b>						
United States . . . . .	2,831	47.7	15,604	263.2	5.5	
Northeast . . . . .	700	61.6	4,528	398.5	6.5	
Midwest . . . . .	657	47.2	3,224	231.9	4.9	
South . . . . .	998	48.8	5,362	262.1	5.4	
West . . . . .	476	35.1	2,491	183.5	5.2	
<b>45–64 years:</b>						
United States . . . . .	3,138	120.8	17,107	658.8	5.5	
Northeast . . . . .	690	133.9	4,198	815.2	6.1	
Midwest . . . . .	679	110.9	3,401	555.3	5.0	
South . . . . .	1,233	134.9	6,811	745.2	5.5	
West . . . . .	536	96.5	2,697	485.5	5.0	

**Table 3. Number and rate of discharges from short-stay hospitals and days of care, with average lengths of stay, by sex, age, and geographic region: United States, 1996—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						
65 years and over:						
United States . . . . .	4,901	353.1	31,507	2,269.8	6.4	
Northeast . . . . .	1,090	373.0	8,109	2,775.1	7.4	
Midwest . . . . .	1,246	377.6	7,723	2,341.1	6.2	
South . . . . .	1,714	354.3	11,053	2,284.7	6.4	
West . . . . .	851	301.6	4,621	1,637.6	5.4	
Female						
All ages:						
United States . . . . .	18,435	136.2	89,955	664.8	4.9	
Northeast . . . . .	3,859	144.8	22,791	855.1	5.9	
Midwest . . . . .	4,226	133.0	19,898	626.3	4.7	
South . . . . .	6,796	142.6	32,605	684.2	4.8	
West . . . . .	3,553	121.6	14,661	501.6	4.1	
Under 15 years:						
United States . . . . .	967	34.3	4,355	154.6	4.5	
Northeast . . . . .	248	48.0	1,119	216.3	4.5	
Midwest . . . . .	211	32.2	893	136.2	4.2	
South . . . . .	298	30.4	1,306	133.0	4.4	
West . . . . .	210	31.7	1,037	156.8	4.9	
15–44 years:						
United States . . . . .	7,495	126.1	24,041	404.4	3.2	
Northeast . . . . .	1,434	125.0	5,747	500.9	4.0	
Midwest . . . . .	1,585	114.0	4,836	348.0	3.1	
South . . . . .	2,825	134.8	9,065	432.6	3.2	
West . . . . .	1,651	125.9	4,393	335.0	2.7	
45–64 years:						
United States . . . . .	3,156	113.8	16,414	592.0	5.2	
Northeast . . . . .	700	124.7	4,155	740.2	5.9	
Midwest . . . . .	692	106.7	3,389	522.3	4.9	
South . . . . .	1,236	124.9	6,476	654.4	5.2	
West . . . . .	528	92.1	2,395	418.0	4.5	
65 years and over:						
United States . . . . .	6,817	341.2	45,145	2,259.5	6.6	
Northeast . . . . .	1,476	336.0	11,771	2,678.9	8.0	
Midwest . . . . .	1,739	360.1	10,780	2,232.4	6.2	
South . . . . .	2,437	348.9	15,758	2,256.0	6.5	
West . . . . .	1,165	308.8	6,836	1,812.3	5.9	

**Table 4. Number of deaths and fatality rate for discharges from short-stay hospitals, by sex and age: United States, 1996**

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

Age	Both sexes	Male	Female	Both sexes	Male	Female
	Number in thousands			Rate per 100 discharges		
All ages . . . . .	815	410	405	2.7	3.4	2.2
Under 65 years . . . . .	215	121	94	1.1	1.7	0.8
Under 15 years . . . . .	18	11	*7	0.8	0.9	*0.7
15–44 years . . . . .	59	35	24	0.6	1.2	0.3
45–64 years . . . . .	138	75	64	2.2	2.4	2.0
65 years and over . . . . .	600	289	311	5.1	5.9	4.6
65–74 years . . . . .	193	108	86	4.0	4.8	3.4
75–84 years . . . . .	244	123	121	5.2	6.2	4.4
85 years and over . . . . .	162	58	104	7.4	8.7	6.9

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

**Table 5. Number and rate of discharges from short-stay hospitals and of days of care and average length of stay, by selected first-listed diagnostic categories: United States, 1996**[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> . . . . .	30,545	1,157.0	159,883	6,056.2	5.2
Heart disease . . . . .	391–392,0,393–398,402,404,410–416,420–429	4,239	160.6	22,195	840.7
Acute myocardial infarction . . . . .	410	825	31.3	5,166	195.7
Coronary atherosclerosis . . . . .	414.0	1,041	39.4	4,881	184.9
Other ischemic heart disease . . . . .	411–413, 414.1–414.9	396	15.0	1,359	51.5
Cardiac dysrhythmias . . . . .	427	618	23.4	2,430	92.0
Congestive heart failure . . . . .	428.0	870	33.0	5,256	199.1
Females with deliveries . . . . .	V27	3,830	145.1	8,367	317.0
Malignant neoplasms . . . . .	140–208,230–234	1,374	52.1	9,580	362.9
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	155	5.9	1,523	57.7
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	210	8.0	1,483	56.2
Malignant neoplasm of breast . . . . .	174–175,198.81	125	4.7	368	13.9
Psychosis . . . . .	290–299	1,212	45.9	11,854	449.0
Pneumonia . . . . .	480–486	1,202	45.5	7,759	293.9
Fractures . . . . .	800–829	1,012	38.3	5,952	225.4
Fracture of neck of femur . . . . .	820	349	13.2	2,594	98.2
Cerebrovascular disease . . . . .	430–438	955	36.2	6,367	241.2
Arthropathies and related disorders . . . . .	710–719	563	21.3	2,815	106.6
Diabetes mellitus . . . . .	250	503	19.1	3,175	120.2
Asthma . . . . .	493	474	17.9	1,710	64.8
Volume depletion . . . . .	276.5	434	16.4	1,953	74.0
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	431	16.3	1,602	60.7
Cholelithiasis . . . . .	574	386	14.6	1,546	58.6
Septicemia . . . . .	038	355	13.5	3,006	113.9
Intervertebral disc disorders . . . . .	722	340	12.9	1,040	39.4
Cellulitis and abscess . . . . .	681–682	324	12.3	1,824	69.1
Acute respiratory infections . . . . .	460–466	317	12.0	1,059	40.1
Diseases of the central nervous system . . . . .	320–349	302	11.4	1,949	73.8

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

**Table 6. Number and rate of discharges from short-stay hospitals, and average length of stay, for patients 65 years of age and over, by age and selected first-listed diagnostic categories: United States, 1996**

[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	65 years and over	65–74 years	75–84 years	85 years and over
Discharges in thousands				
All conditions <sup>1</sup>	11,718	4,804	4,724	2,190
Heart disease	391–392.0,393–398,402,404,410–416,420–429	2,721	1,164	1,114
Acute myocardial infarction	.....410	500	229	207
Coronary atherosclerosis	.....414.0	578	319	213
Other ischemic heart disease	.....411–413,414.1–414.9	224	104	93
Cardiac dysrhythmias	.....427	427	168	178
Congestive heart failure	.....428.0	686	215	298
Malignant neoplasms	140–208, 230–234	745	405	262
Malignant neoplasm of large intestine and rectum	.....153–154,197.5	109	48	41
Malignant neoplasm of trachea, bronchus, and lung	.....162,176.4,197.0,197.3	122	70	43
Cerebrovascular disease	.....430–438	727	252	326
Pneumonia	.....480–486	699	219	280
Fractures	.....800–829	523	130	210
Fracture of neck of femur	.....820	316	60	134
Arthropathies and related disorders	.....710–719	345	179	142
Chronic bronchitis	.....490–491	279	128	111
Psychosis	.....290–299	255	106	102
Septicemia	.....038	236	78	93
Volume depletion	.....276.5	208	62	82
Urinary tract infection, not specified	.....599.0	199	45	85
Diabetes mellitus	.....250	198	100	72
Discharge rate per 10,000 population				
All conditions <sup>1</sup>	3,460.7	2,573.1	4,133.4	5,822.3
Heart disease	391–392.0,393–398,402,404,410–416,420–429	803.6	623.6	974.3
Acute myocardial infarction	.....410	147.7	122.9	181.2
Coronary atherosclerosis	.....414.0	170.8	171.0	186.2
Other ischemic heart disease	.....411–413,414.1–414.9	66.2	55.8	81.0
Cardiac dysrhythmias	.....427	126.0	90.2	155.8
Congestive heart failure	.....428.0	202.7	115.4	260.4
Malignant neoplasms	140–208, 230–234	220.1	216.8	228.9
Malignant neoplasm of large intestine and rectum	.....153–154, 197.5	32.0	25.9	35.6
Malignant neoplasm of trachea, bronchus, and lung	.....162,176.4,197.0,197.3	36.1	37.6	37.6
Cerebrovascular disease	.....430–438	214.7	135.0	285.3
Pneumonia	.....480–486	206.3	117.1	244.6
Fractures	.....800–829	154.5	69.5	183.8
Fracture of neck of femur	.....820	93.4	32.3	116.8
Arthropathies and related disorders	.....710–719	101.8	96.1	124.0
Chronic bronchitis	.....490–491	82.3	68.7	96.8
Psychosis	.....290–299	75.5	56.8	88.9
Septicemia	.....038	69.6	41.9	81.6
Volume depletion	.....276.5	61.4	33.4	71.3
Urinary tract infection, not specified	.....599.0	58.8	24.3	74.8
Diabetes mellitus	.....250	58.4	53.6	63.0

**Table 6. Number and rate of discharges from short-stay hospitals, and average length of stay, for patients 65 years of age and over, by age and selected first-listed diagnostic categories: United States, 1996—Con.**

[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	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> . . . . .	3.5	6.2	6.6	7.0
Heart disease . . . . .	391–392, 0, 393–398, 402, 404, 410–416, 420–429	5.6	5.5	5.8
Acute myocardial infarction . . . . .	410	6.8	6.4	7.3
Coronary atherosclerosis . . . . .	414.0	5.3	5.3	4.7
Other ischemic heart disease . . . . .	411–413, 414.1–414.9	3.9	3.6	4.0
Cardiac dysrhythmias . . . . .	427	4.1	3.9	4.1
Congestive heart failure . . . . .	428.0	6.2	6.3	6.1
Malignant neoplasms . . . . .	140–208, 230–234	7.2	7.0	7.5
Malignant neoplasm of large intestine and rectum . . . . .	153–154, 197.5	10.1	9.3	10.4
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162, 176.4, 197.0, 197.3	7.4	7.3	7.8
Cerebrovascular disease . . . . .	430–438	6.6	6.2	6.7
Pneumonia . . . . .	480–486	7.3	7.1	7.3
Fractures . . . . .	800–829	7.0	6.6	7.3
Fracture of neck of femur . . . . .	820	7.5	7.4	7.8
Arthropathies and related disorders . . . . .	710–719	5.4	5.0	5.7
Chronic bronchitis . . . . .	490–491	5.9	5.8	5.8
Psychosis . . . . .	290–299	11.6	12.2	12.1
Septicemia . . . . .	038	8.4	8.3	8.4
Volume depletion . . . . .	276.5	5.8	5.5	5.9
Urinary tract infection, not specified . . . . .	599.0	6.7	6.3	6.5
Diabetes mellitus . . . . .	250	7.1	6.9	7.2

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

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

**Table 7. Number of discharges from short-stay hospitals, by age and first-listed diagnosis: United States, 1996**

[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 . . . . .	30,545	2,207	10,325	6,294	11,718
Infectious and parasitic diseases . . . . .	001–139	845	153	225	135
Septicemia . . . . .	038	355	19	43	57
Neoplasms . . . . .	140–239	1,805	40	327	611
Malignant neoplasms . . . . .	140–208,230–234	1,374	29	142	458
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	155	*	*8	38
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	210	*	13	73
Malignant neoplasm of breast . . . . .	174–175,198.81	125	*	15	54
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	431	11	186	153
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	1,272	155	250	305
Diabetes mellitus . . . . .	250	503	24	120	161
Volume depletion . . . . .	276.5	434	110	58	58
Diseases of the blood and blood-forming organs . . . . .	280–289	333	53	88	65
Mental disorders . . . . .	290–319	1,943	81	1,145	401
Psychoses . . . . .	290–299	1,212	36	664	256
Alcohol dependence syndrome . . . . .	303	206	*	140	56
Diseases of the nervous system and sense organs . . . . .	320–389	512	89	138	99
Diseases of the central nervous system . . . . .	320–349	302	41	101	61
Diseases of the ear and mastoid process . . . . .	380–389	75	33	*8	10
Diseases of the circulatory system . . . . .	390–459	6,107	25	413	1,706
Heart disease . . . . .	391–392,0,393–398,402,404,410–416,420–429	4,239	18	252	1,248
Acute myocardial infarction . . . . .	410	825	*	42	282
Coronary atherosclerosis . . . . .	414.0	1,041	*	47	414
Other ischemic heart disease . . . . .	411–413,414.1–414.9	396	*	32	139
Cardiac dysrhythmias . . . . .	427	618	*6	45	140
Congestive heart failure . . . . .	428.0	870	*	29	153
Cerebrovascular disease . . . . .	430–438	955	*	40	187
Diseases of the respiratory system . . . . .	460–519	3,238	653	450	584
Acute respiratory infections . . . . .	460–466	317	196	40	30
Chronic disease of tonsils and adenoids . . . . .	474	27	20	*6	*
Pneumonia . . . . .	480–486	1,202	190	140	173
Asthma . . . . .	493	474	195	132	88
Diseases of the digestive system . . . . .	520–579	2,906	205	746	757
Ulcers of the stomach and small intestine . . . . .	531–534	193	*	30	57
Appendicitis . . . . .	540–543	235	61	127	31
Inguinal hernia . . . . .	550	57	9	*9	11
Noninfectious enteritis and colitis . . . . .	555–558	276	61	82	49
Cholelithiasis . . . . .	574	386	*	118	126
Diseases of the genitourinary system . . . . .	580–629	1,673	69	590	413
Calculus of kidney and ureter . . . . .	592	176	*	85	64
Hyperplasia of prostate . . . . .	600	106	—	*	21
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	536	*	534	*
Abortions and ectopic and molar pregnancies . . . . .	630–639	108	*	108	*
Diseases of the skin and subcutaneous tissue . . . . .	680–709	452	45	126	120
Cellulitis and abscess . . . . .	681–682	324	29	95	92
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	1,506	37	370	430
Arthropathies and related disorders . . . . .	710–719	563	13	78	127
Intervertebral disc disorders . . . . .	722	340	*	156	131
Congenital anomalies . . . . .	740–759	167	114	25	19
Certain conditions originating in the perinatal period . . . . .	760–779	152	152	—	—
Symptoms, signs, and ill-defined conditions . . . . .	780–799	302	52	114	75
Injury and poisoning . . . . .	800–999	2,550	223	865	485
Fractures, all sites . . . . .	800–829	1,012	71	263	154
Fracture of neck of femur . . . . .	820	349	*	*9	22
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	141	20	56	18
Open wounds . . . . .	870–897	124	15	73	22
Supplementary classifications . . . . .	V01–V82	4,246	59	3,919	88
Females with deliveries . . . . .	V27	3,830	10	3,817	*

— Quantity zero.

\* 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."

**Table 8. Rate of discharges from short-stay hospitals, by age and first-listed diagnosis: United States, 1996**

[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
Rate per 10,000 population					
All conditions . . . . .	1,157.0	382.4	869.6	1,172.2	3,460.7
Infectious and parasitic diseases . . . . .	001–139	32.0	26.5	19.0	25.2
Septicemia . . . . .	038	13.5	3.3	3.7	10.5
Neoplasms . . . . .	140–239	68.4	6.9	27.6	113.9
Malignant neoplasms . . . . .	140–208,230–234	52.1	5.1	11.9	85.3
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	5.9	*	*0.7	7.1
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	8.0	*	1.1	13.5
Malignant neoplasm of breast . . . . .	174–175,198.81	4.7	*	1.2	10.0
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	16.3	1.8	15.7	28.5
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	48.2	26.9	21.0	56.7
Diabetes mellitus . . . . .	250	19.1	4.2	10.1	30.0
Volume depletion . . . . .	276.5	16.4	19.1	4.9	10.8
Diseases of the blood and blood-forming organs . . . . .	280–289	12.6	9.1	7.4	12.0
Mental disorders . . . . .	290–319	73.6	14.0	96.5	74.7
Psychoses . . . . .	290–299	45.9	6.2	56.0	47.7
Alcohol dependence syndrome . . . . .	303	7.8	*	11.8	10.4
Diseases of the nervous system and sense organs . . . . .	320–389	19.4	15.3	11.7	18.4
Diseases of the central nervous system . . . . .	320–349	11.4	7.0	8.5	11.3
Diseases of the ear and mastoid process . . . . .	380–389	2.8	5.7	*0.7	1.9
Diseases of the circulatory system . . . . .	390–459	231.3	4.4	34.8	317.7
Heart disease . . . . .	391–392,0,393–398,402,404,410–416,420–429	160.6	3.1	21.2	232.5
Acute myocardial infarction . . . . .	410	31.3	*	3.5	52.5
Coronary atherosclerosis . . . . .	414.0	39.4	*	4.0	77.2
Other ischemic heart disease . . . . .	411–413,414.1–414.9	15.0	*	2.7	25.8
Cardiac dysrhythmias . . . . .	427	23.4	*1.0	3.8	26.1
Congestive heart failure . . . . .	428.0	33.0	*	2.4	28.5
Cerebrovascular disease . . . . .	430–438	36.2	*	3.3	34.8
Diseases of the respiratory system . . . . .	460–519	122.6	113.2	37.9	108.8
Acute respiratory infections . . . . .	460–466	12.0	34.0	3.4	5.6
Chronic disease of tonsils and adenoids . . . . .	474	1.0	3.5	*0.5	*
Pneumonia . . . . .	480–486	45.5	33.0	11.8	32.3
Asthma . . . . .	493	17.9	33.8	11.1	16.4
Diseases of the digestive system . . . . .	520–579	110.1	35.6	62.8	141.1
Ulcers of the stomach and small intestine . . . . .	531–534	7.3	*	2.5	10.6
Appendicitis . . . . .	540–543	8.9	10.6	10.7	5.8
Inguinal hernia . . . . .	550	2.2	1.6	*0.8	2.0
Noninfectious enteritis and colitis . . . . .	555–558	10.5	10.5	6.9	9.2
Cholelithiasis . . . . .	574	14.6	*	9.9	23.5
Diseases of the genitourinary system . . . . .	580–629	63.4	12.0	49.7	76.9
Calculus of kidney and ureter . . . . .	592	6.7	*	7.1	11.9
Hyperplasia of prostate . . . . .	600	4.0	—	*	3.8
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	20.3	*	44.9	*
Abortions and ectopic and molar pregnancies . . . . .	630–639	4.1	*	9.1	*
Diseases of the skin and subcutaneous tissue . . . . .	680–709	17.1	7.7	10.6	22.3
Cellulitis and abscess . . . . .	681–682	12.3	5.1	8.0	17.1
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	57.0	6.4	31.2	80.1
Arthropathies and related disorders . . . . .	710–719	21.3	2.3	6.6	23.7
Intervertebral disc disorders . . . . .	722	12.9	*	13.2	24.4
Congenital anomalies . . . . .	740–759	6.3	19.8	2.1	3.6
Certain conditions originating in the perinatal period . . . . .	760–779	5.8	26.4	—	—
Symptoms, signs, and ill-defined conditions . . . . .	780–799	11.4	9.0	9.6	14.0
Injury and poisoning . . . . .	800–999	96.6	38.6	72.8	90.3
Fractures, all sites . . . . .	800–829	38.3	12.4	22.2	28.7
Fracture of neck of femur . . . . .	820	13.2	*	*0.7	4.0
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	5.3	3.5	4.8	3.4
Open wounds . . . . .	870–897	4.7	2.6	6.2	4.0
Supplementary classifications . . . . .	V01–V82	160.8	10.2	330.0	16.5
Females with deliveries . . . . .	V27	145.1	1.7	321.5	*

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

— Quantity zero.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."

**Table 9. Average length of stay for discharges from short-stay hospitals, by age and first-listed diagnosis: United States, 1996**

[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
Average length of stay in days					
All conditions . . . . .	5.2	4.6	3.8	5.3	6.5
Infectious and parasitic diseases . . . . .	001–139	7.4	3.9	8.4	8.2
Septicemia . . . . .	038	8.5	5.6	9.0	9.3
Neoplasms . . . . .	140–239	6.2	7.8	4.6	5.7
Malignant neoplasms . . . . .	140–208,230–234	7.0	8.7	6.8	6.5
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	9.8	*	*12.2	8.4
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	7.0	*	7.0	6.5
Malignant neoplasm of breast . . . . .	174–175,198.81	3.0	*	3.7	2.7
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	3.7	5.2	3.0	3.6
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	5.3	2.9	4.3	5.7
Diabetes mellitus . . . . .	250	6.3	3.3	4.8	7.0
Volume depletion . . . . .	276.5	4.5	2.2	3.7	5.0
Diseases of the blood and blood-forming organs . . . . .	280–289	4.9	3.3	5.9	4.7
Mental disorders . . . . .	290–319	8.5	11.2	7.7	8.4
Psychoses . . . . .	290–299	9.8	11.1	9.0	9.8
Alcohol dependence syndrome . . . . .	303	6.9	*	7.1	5.7
Diseases of the nervous system and sense organs . . . . .	320–389	5.1	3.8	4.6	5.7
Diseases of the central nervous system . . . . .	320–349	6.5	4.8	5.0	7.5
Diseases of the ear and mastoid process . . . . .	380–389	2.6	2.5	*2.2	2.4
Diseases of the circulatory system . . . . .	390–459	5.5	6.0	4.3	4.9
Heart disease . . . . .	391–392.0,393–398,402,404,410–416,420–429	5.2	6.6	3.9	4.6
Acute myocardial infarction . . . . .	410	6.3	*	4.4	5.6
Coronary atherosclerosis . . . . .	414.0	4.7	*	3.0	4.0
Other ischemic heart disease . . . . .	411–413,414.1–414.9	3.4	*	2.2	3.0
Cardiac dysrhythmias . . . . .	427	3.9	*2.8	3.4	3.5
Congestive heart failure . . . . .	428.0	6.0	*	4.6	5.7
Cerebrovascular disease . . . . .	430–438	6.7	*	6.8	6.7
Diseases of the respiratory system . . . . .	460–519	5.9	3.4	4.8	6.1
Acute respiratory infections . . . . .	460–466	3.3	3.0	2.7	3.6
Chronic disease of tonsils and adenoids . . . . .	474	1.6	1.7	*1.1	*
Pneumonia . . . . .	480–486	6.5	3.8	5.7	6.6
Asthma . . . . .	493	3.6	2.7	3.6	4.4
Diseases of the digestive system . . . . .	520–579	5.1	3.4	4.1	4.8
Ulcers of the stomach and small intestine . . . . .	531–534	6.0	*	5.7	4.9
Appendicitis . . . . .	540–543	3.5	3.5	3.0	4.1
Inguinal hernia . . . . .	550	2.7	1.6	*1.9	2.4
Noninfectious enteritis and colitis . . . . .	555–558	5.1	2.5	5.0	5.6
Cholelithiasis . . . . .	574	4.0	*	2.8	3.3
Diseases of the genitourinary system . . . . .	580–629	4.1	4.1	3.0	3.6
Calculus of kidney and ureter . . . . .	592	2.3	*	2.1	2.2
Hyperplasia of prostate . . . . .	600	3.5	—	*	2.9
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	2.5	*	2.5	*
Abortions and ectopic and molar pregnancies . . . . .	630–639	1.8	*	1.8	*
Diseases of the skin and subcutaneous tissue . . . . .	680–709	6.3	3.8	5.1	6.5
Cellulitis and abscess . . . . .	681–682	5.6	3.2	4.5	6.1
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	4.8	3.7	3.6	4.1
Arthropathies and related disorders . . . . .	710–719	5.0	3.6	4.0	4.6
Intervertebral disc disorders . . . . .	722	3.1	*	2.8	2.8
Congenital anomalies . . . . .	740–759	6.5	7.5	4.8	3.2
Certain conditions originating in the perinatal period . . . . .	760–779	10.1	10.1	—	—
Symptoms, signs, and ill-defined conditions . . . . .	780–799	3.3	2.3	3.2	2.9
Injury and poisoning . . . . .	800–999	5.4	3.8	4.4	5.3
Fractures, all sites . . . . .	800–829	5.9	3.6	4.6	5.1
Fracture of neck of femur . . . . .	820	7.4	*	*7.1	6.5
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	6.7	4.3	5.4	7.5
Open wounds . . . . .	870–897	3.3	3.1	3.1	3.5
Supplementary classifications . . . . .	V01–V82	2.7	4.4	2.2	6.8
Females with deliveries . . . . .	V27	2.2	2.8	2.2	*

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

— Quantity zero.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."

**Table 10. Number of discharges from short-stay hospitals, by sex and first-listed diagnosis: United States, 1996**

[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 . . . . .	30,545	12,110	18,435
Infectious and parasitic diseases . . . . .	001–139	845	412
Septicemia . . . . .	038	355	156
Neoplasms . . . . .	140–239	1,805	693
Malignant neoplasms . . . . .	140–208,230–234	1,374	626
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	155	69
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	210	118
Malignant neoplasm of breast . . . . .	174–175,198.81	125	*
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	431	67
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	1,272	519
Diabetes mellitus . . . . .	250	503	233
Volume depletion . . . . .	276.5	434	162
Diseases of the blood and blood-forming organs . . . . .	280–289	333	143
Mental disorders . . . . .	290–319	1,943	1,004
Psychoses . . . . .	290–299	1,212	569
Alcohol dependence syndrome . . . . .	303	206	158
Diseases of the nervous system and sense organs . . . . .	320–389	512	225
Diseases of the central nervous system . . . . .	320–349	302	128
Diseases of the ear and mastoid process . . . . .	380–389	75	37
Diseases of the circulatory system . . . . .	390–459	6,107	3,101
Heart disease . . . . .	391–392.0,393–398,402,404,410–416,420–429	4,239	2,216
Acute myocardial infarction . . . . .	410	825	496
Coronary atherosclerosis . . . . .	414.0	1,041	626
Other ischemic heart disease . . . . .	411–413,414.1–414.9	396	204
Cardiac dysrhythmias . . . . .	427	618	290
Congestive heart failure . . . . .	428.0	870	377
Cerebrovascular disease . . . . .	430–438	955	437
Diseases of the respiratory system . . . . .	460–519	3,238	1,544
Acute respiratory infections . . . . .	460–466	317	163
Chronic disease of tonsils and adenoids . . . . .	474	27	14
Pneumonia . . . . .	480–486	1,202	574
Asthma . . . . .	493	474	195
Diseases of the digestive system . . . . .	520–579	2,906	1,295
Ulcers of the stomach and small intestine . . . . .	531–534	193	104
Appendicitis . . . . .	540–543	235	140
Inguinal hernia . . . . .	550	57	48
Noninfectious enteritis and colitis . . . . .	555–558	276	110
Cholelithiasis . . . . .	574	386	115
Diseases of the genitourinary system . . . . .	580–629	1,673	526
Calculus of kidney and ureter . . . . .	592	176	107
Hyperplasia of prostate . . . . .	600	106	106
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	536	...
Abortions and ectopic and molar pregnancies . . . . .	630–639	108	108
Diseases of the skin and subcutaneous tissue . . . . .	680–709	452	236
Cellulitis and abscess . . . . .	681–682	324	176
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	1,506	638
Arthropathies and related disorders . . . . .	710–719	563	213
Intervertebral disc disorders . . . . .	722	340	183
Congenital anomalies . . . . .	740–759	167	92
Certain conditions originating in the perinatal period . . . . .	760–779	152	90
Symptoms, signs, and ill-defined conditions . . . . .	780–799	302	140
Injury and poisoning . . . . .	800–999	2,550	1,277
Fractures, all sites . . . . .	800–829	1,012	421
Fracture of neck of femur . . . . .	820	349	80
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	141	91
Open wounds . . . . .	870–897	124	95
Supplementary classifications . . . . .	V01–V82	4,246	177
Females with deliveries . . . . .	V27	3,830	...
			3,830

\* 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."

**Table 11. Rate of discharges from short-stay hospitals, by sex and first-listed diagnosis: United States, 1996**

[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
	Rate per 10,000 population		
All conditions . . . . .	1,157.0	941.0	1,362.5
Infectious and parasitic diseases . . . . .	001–139	32.0	32.0
Septicemia . . . . .	038	13.5	12.1
Neoplasms . . . . .	140–239	68.4	53.9
Malignant neoplasms . . . . .	140–208,230–234	52.1	48.7
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	5.9	5.4
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	8.0	9.1
Malignant neoplasm of breast . . . . .	174–175,198.81	4.7	* 9.1
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	16.3	5.2
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	48.2	40.4
Diabetes mellitus . . . . .	250	19.1	18.1
Volume depletion . . . . .	276.5	16.4	12.6
Diseases of the blood and blood-forming organs . . . . .	280–289	12.6	11.1
Mental disorders . . . . .	290–319	73.6	78.0
Psychoses . . . . .	290–299	45.9	44.2
Alcohol dependence syndrome . . . . .	303	7.8	12.3
Diseases of the nervous system and sense organs . . . . .	320–389	19.4	17.5
Diseases of the central nervous system . . . . .	320–349	11.4	9.9
Diseases of the ear and mastoid process . . . . .	380–389	2.8	2.9
Diseases of the circulatory system . . . . .	390–459	231.3	241.0
Heart disease . . . . .	391–392.0,393–398,402,404,410–416,420–429	160.6	172.2
Acute myocardial infarction . . . . .	410	31.3	38.5
Coronary atherosclerosis . . . . .	414.0	39.4	48.6
Other ischemic heart disease . . . . .	411–413,414.1–414.9	15.0	15.9
Cardiac dysrhythmias . . . . .	427	23.4	22.5
Congestive heart failure . . . . .	428.0	33.0	29.3
Cerebrovascular disease . . . . .	430–438	36.2	33.9
Diseases of the respiratory system . . . . .	460–519	122.6	120.0
Acute respiratory infections . . . . .	460–466	12.0	12.7
Chronic disease of tonsils and adenoids . . . . .	474	1.0	1.1
Pneumonia . . . . .	480–486	45.5	44.6
Asthma . . . . .	493	17.9	15.1
Diseases of the digestive system . . . . .	520–579	110.1	100.6
Ulcers of the stomach and small intestine . . . . .	531–534	7.3	8.1
Appendicitis . . . . .	540–543	8.9	10.9
Inguinal hernia . . . . .	550	2.2	3.8
Noninfectious enteritis and colitis . . . . .	555–558	10.5	8.6
Cholelithiasis . . . . .	574	14.6	8.9
Diseases of the genitourinary system . . . . .	580–629	63.4	40.9
Calculus of kidney and ureter . . . . .	592	6.7	8.3
Hyperplasia of prostate . . . . .	600	4.0	8.2
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	20.3	...
Abortions and ectopic and molar pregnancies . . . . .	630–639	4.1	8.0
Diseases of the skin and subcutaneous tissue . . . . .	680–709	17.1	18.3
Cellulitis and abscess . . . . .	681–682	12.3	13.7
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	57.0	49.6
Arthropathies and related disorders . . . . .	710–719	21.3	16.6
Intervertebral disc disorders . . . . .	722	12.9	14.3
Congenital anomalies . . . . .	740–759	6.3	7.1
Certain conditions originating in the perinatal period . . . . .	760–779	5.8	7.0
Symptoms, signs, and ill-defined conditions . . . . .	780–799	11.4	10.9
Injury and poisoning . . . . .	800–999	96.6	99.2
Fractures, all sites . . . . .	800–829	38.3	32.7
Fracture of neck of femur . . . . .	820	13.2	6.2
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	5.3	7.0
Open wounds . . . . .	870–897	4.7	7.4
Supplementary classifications . . . . .	V01–V82	160.8	13.7
Females with deliveries . . . . .	V27	145.1	...

\* 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."

**Table 12. Average length of stay for discharges from short-stay hospitals, by sex and first-listed diagnosis: United States, 1996**

[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 . . . . .	5.2	5.8	4.9
Infectious and parasitic diseases . . . . .	7.4	7.8	7.0
Septicemia . . . . .	8.5	8.6	8.4
Neoplasms . . . . .	6.2	7.1	5.6
Malignant neoplasms . . . . .	7.0	7.3	6.7
Malignant neoplasm of large intestine and rectum . . . . .	9.8	9.2	10.3
Malignant neoplasm of trachea, bronchus, and lung . . . . .	7.0	7.1	7.0
Malignant neoplasm of breast . . . . .	3.0	* . . .	3.0
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	3.7	5.4	3.4
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	5.3	5.6	5.1
Diabetes mellitus . . . . .	6.3	6.9	5.8
Volume depletion . . . . .	4.5	4.4	4.6
Diseases of the blood and blood-forming organs . . . . .	4.9	4.7	5.2
Mental disorders . . . . .	8.5	8.0	9.1
Psychoses . . . . .	9.8	9.1	10.4
Alcohol dependence syndrome . . . . .	6.9	6.7	7.5
Diseases of the nervous system and sense organs . . . . .	5.1	5.4	4.8
Diseases of the central nervous system . . . . .	6.5	7.1	6.0
Diseases of the ear and mastoid process . . . . .	2.6	2.6	2.7
Diseases of the circulatory system . . . . .	5.5	5.3	5.8
Heart disease . . . . .	5.2	5.0	5.5
Acute myocardial infarction . . . . .	6.3	6.0	6.6
Coronary atherosclerosis . . . . .	4.7	4.5	4.9
Other ischemic heart disease . . . . .	3.4	3.4	3.5
Cardiac dysrhythmias . . . . .	3.9	3.6	4.2
Congestive heart failure . . . . .	6.0	5.7	6.3
Cerebrovascular disease . . . . .	6.7	6.4	6.9
Diseases of the respiratory system . . . . .	5.9	5.9	5.9
Acute respiratory infections . . . . .	3.3	3.1	3.6
Chronic disease of tonsils and adenoids . . . . .	1.6	1.5	1.7
Pneumonia . . . . .	6.5	6.6	6.3
Asthma . . . . .	3.6	3.2	3.9
Diseases of the digestive system . . . . .	5.1	5.2	5.0
Ulcers of the stomach and small intestine . . . . .	6.0	5.7	6.4
Appendicitis . . . . .	3.5	3.5	3.6
Inguinal hernia . . . . .	2.7	2.5	*3.3
Noninfectious enteritis and colitis . . . . .	5.1	5.6	4.8
Cholelithiasis . . . . .	4.0	5.2	3.5
Diseases of the genitourinary system . . . . .	4.1	4.4	4.0
Calculus of kidney and ureter . . . . .	2.3	2.2	2.5
Hyperplasia of prostate . . . . .	3.5	3.5	... . . .
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	2.5	... . . .	2.5
Abortions and ectopic and molar pregnancies . . . . .	1.8	... . . .	1.8
Diseases of the skin and subcutaneous tissue . . . . .	6.3	6.1	6.5
Cellulitis and abscess . . . . .	5.6	5.2	6.1
Diseases of the musculoskeletal system and connective tissue . . . . .	4.8	4.4	5.0
Arthropathies and related disorders . . . . .	5.0	4.4	5.3
Intervertebral disc disorders . . . . .	3.1	2.9	3.2
Congenital anomalies . . . . .	6.5	6.7	6.3
Certain conditions originating in the perinatal period . . . . .	10.1	9.8	10.6
Symptoms, signs, and ill-defined conditions . . . . .	3.3	3.8	2.8
Injury and poisoning . . . . .	5.4	5.3	5.6
Fractures, all sites . . . . .	5.9	5.6	6.1
Fracture of neck of femur . . . . .	7.4	8.0	7.3
Intracranial injuries (excluding those with skull fracture) . . . . .	6.7	6.5	6.9
Open wounds . . . . .	3.3	3.1	3.9
Supplementary classifications . . . . .	2.7	8.0	2.5
Females with deliveries . . . . .	2.2	... . . .	2.2

\* 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."

**Table 13. Number of discharges from short-stay hospitals, by geographic region and first-listed diagnosis: United States, 1996**

[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	North-east	Midwest	South	West
Number in thousands					
All conditions . . . . .	30,545	6,665	7,107	11,085	5,688
Infectious and parasitic diseases . . . . .	001–139	845	197	173	316
Septicemia . . . . .	038	355	67	83	145
Neoplasms . . . . .	140–239	1,805	454	371	623
Malignant neoplasms . . . . .	140–208,230–234	1,374	359	287	465
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	155	38	38	55
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	210	53	42	74
Malignant neoplasm of breast . . . . .	174–175,198.81	125	29	28	43
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	431	95	84	158
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	1,272	267	299	496
Diabetes mellitus . . . . .	250	503	101	112	204
Volume depletion . . . . .	276.5	434	98	107	169
Diseases of the blood and blood-forming organs . . . . .	280–289	333	83	80	114
Mental disorders . . . . .	290–319	1,943	555	516	669
Psychoses . . . . .	290–299	1,212	338	335	410
Alcohol dependence syndrome . . . . .	303	206	43	53	88
Diseases of the nervous system and sense organs . . . . .	320–389	512	116	100	198
Diseases of the central nervous system . . . . .	320–349	302	65	65	115
Diseases of the ear and mastoid process . . . . .	380–389	75	19	14	28
Diseases of the circulatory system . . . . .	390–459	6,107	1,388	1,477	2,235
Heart disease . . . . .	391–392,0,393–398,402,404,410–416,420–429	4,239	986	1,031	1,522
Acute myocardial infarction . . . . .	410	825	182	201	299
Coronary atherosclerosis . . . . .	414.0	1,041	244	242	367
Other ischemic heart disease . . . . .	411–413,414.1–414.9	396	105	101	138
Cardiac dysrhythmias . . . . .	427	618	151	149	213
Congestive heart failure . . . . .	428.0	870	187	224	337
Cerebrovascular disease . . . . .	430–438	955	200	232	361
Diseases of the respiratory system . . . . .	460–519	3,238	667	797	1,228
Acute respiratory infections . . . . .	460–466	317	61	76	123
Chronic disease of tonsils and adenoids . . . . .	474	27	17	* *6	*
Pneumonia . . . . .	480–486	1,202	221	328	456
Asthma . . . . .	493	474	126	116	146
Diseases of the digestive system . . . . .	520–579	2,906	629	690	1,050
Ulcers of the stomach and small intestine . . . . .	531–534	193	33	53	71
Appendicitis . . . . .	540–543	235	41	53	73
Inguinal hernia . . . . .	550	57	22	10	16
Noninfectious enteritis and colitis . . . . .	555–558	276	60	69	110
Cholelithiasis . . . . .	574	386	98	84	131
Diseases of the genitourinary system . . . . .	580–629	1,673	334	383	666
Calculus of kidney and ureter . . . . .	592	176	34	43	72
Hyperplasia of prostate . . . . .	600	106	23	31	31
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	536	118	116	206
Abortions and ectopic and molar pregnancies . . . . .	630–639	108	31	18	43
Diseases of the skin and subcutaneous tissue . . . . .	680–709	452	107	115	145
Cellulitis and abscess . . . . .	681–682	324	78	85	101
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	1,506	300	357	560
Arthropathies and related disorders . . . . .	710–719	563	114	147	192
Intervertebral disc disorders . . . . .	722	340	63	71	144
Congenital anomalies . . . . .	740–759	167	64	28	39
Certain conditions originating in the perinatal period . . . . .	760–779	152	26	37	41
Symptoms, signs, and ill-defined conditions . . . . .	780–799	302	69	53	134
Injury and poisoning . . . . .	800–999	2,550	550	572	905
Fractures, all sites . . . . .	800–829	1,012	209	241	359
Fracture of neck of femur . . . . .	820	349	64	91	127
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	141	33	30	44
Open wounds . . . . .	870–897	124	22	21	48
Supplementary classifications . . . . .	V01–V82	4,246	740	944	1,458
Females with deliveries . . . . .	V27	3,830	624	785	1,384

\* 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."

**Table 14. Rate of discharges from short-stay hospitals, by geographic region and first-listed diagnosis: United States, 1996**

[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	North-east	Midwest	South	West
Rate per 10,000 population					
All conditions . . . . .	1,157.0	1,293.7	1,146.5	1,200.0	978.5
Infectious and parasitic diseases . . . . .	001–139	32.0	38.3	27.9	34.2
Septicemia . . . . .	038	13.5	12.9	13.5	15.7
Neoplasms . . . . .	140–239	68.4	88.1	59.8	67.5
Malignant neoplasms . . . . .	140–208,230–234	52.1	69.8	46.2	50.4
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	5.9	7.3	6.1	5.9
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	8.0	10.3	6.7	8.0
Malignant neoplasm of breast . . . . .	174–175,198.81	4.7	5.6	4.6	4.6
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	16.3	18.4	13.6	17.1
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	48.2	51.9	48.2	53.7
Diabetes mellitus . . . . .	250	19.1	19.5	18.1	22.1
Volume depletion . . . . .	276.5	16.4	19.0	17.2	18.3
Diseases of the blood and blood-forming organs . . . . .	280–289	12.6	16.1	12.9	12.3
Mental disorders . . . . .	290–319	73.6	107.7	83.3	72.5
Psychoses . . . . .	290–299	45.9	65.5	54.0	44.4
Alcohol dependence syndrome . . . . .	303	7.8	8.4	8.6	9.5
Diseases of the nervous system and sense organs . . . . .	320–389	19.4	22.6	16.2	21.5
Diseases of the central nervous system . . . . .	320–349	11.4	12.6	10.5	12.5
Diseases of the ear and mastoid process . . . . .	380–389	2.8	3.7	2.3	3.1
Diseases of the circulatory system . . . . .	390–459	231.3	269.5	238.2	241.9
Heart disease . . . . .	391–392,0,393–398,402,404,410–416,420–429	160.6	191.4	166.4	164.8
Acute myocardial infarction . . . . .	410	31.3	35.3	32.4	24.7
Coronary atherosclerosis . . . . .	414.0	39.4	47.3	39.1	39.7
Other ischemic heart disease . . . . .	411–413,414.1–414.9	15.0	20.4	16.3	15.0
Cardiac dysrhythmias . . . . .	427	23.4	29.3	24.0	23.0
Congestive heart failure . . . . .	428.0	33.0	36.3	36.1	21.0
Cerebrovascular disease . . . . .	430–438	36.2	38.8	37.4	39.1
Diseases of the respiratory system . . . . .	460–519	122.6	129.5	128.6	132.9
Acute respiratory infections . . . . .	460–466	12.0	11.9	12.2	13.4
Chronic disease of tonsils and adenoids . . . . .	474	1.0	3.3	*	*0.6
Pneumonia . . . . .	480–486	45.5	42.8	52.8	49.4
Asthma . . . . .	493	17.9	24.4	18.6	15.9
Diseases of the digestive system . . . . .	520–579	110.1	122.2	111.3	113.7
Ulcers of the stomach and small intestine . . . . .	531–534	7.3	6.4	8.6	7.6
Appendicitis . . . . .	540–543	8.9	8.0	8.5	7.9
Inguinal hernia . . . . .	550	2.2	4.3	1.6	1.7
Noninfectious enteritis and colitis . . . . .	555–558	10.5	11.7	11.2	11.9
Cholelithiasis . . . . .	574	14.6	19.0	13.5	14.2
Diseases of the genitourinary system . . . . .	580–629	63.4	64.8	61.8	72.1
Calculus of kidney and ureter . . . . .	592	6.7	6.7	6.9	7.8
Hyperplasia of prostate . . . . .	600	4.0	4.5	5.0	3.4
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	20.3	22.8	18.7	22.3
Abortions and ectopic and molar pregnancies . . . . .	630–639	4.1	6.0	2.8	4.7
Diseases of the skin and subcutaneous tissue . . . . .	680–709	17.1	20.8	18.6	15.7
Cellulitis and abscess . . . . .	681–682	12.3	15.0	13.7	11.0
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	57.0	58.3	57.6	60.7
Arthropathies and related disorders . . . . .	710–719	21.3	22.1	23.8	20.7
Intervertebral disc disorders . . . . .	722	12.9	12.1	11.5	15.6
Congenital anomalies . . . . .	740–759	6.3	12.4	4.6	4.2
Certain conditions originating in the perinatal period . . . . .	760–779	5.8	5.0	5.9	4.5
Symptoms, signs, and ill-defined conditions . . . . .	780–799	11.4	13.5	8.5	14.5
Injury and poisoning . . . . .	800–999	96.6	106.8	92.2	98.0
Fractures, all sites . . . . .	800–829	38.3	40.6	38.9	38.8
Fracture of neck of femur . . . . .	820	13.2	12.4	14.8	13.8
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	5.3	6.5	4.9	4.7
Open wounds . . . . .	870–897	4.7	4.3	3.4	5.2
Supplementary classifications . . . . .	V01–V82	160.8	143.6	152.3	157.8
Females with deliveries . . . . .	V27	145.1	121.1	126.7	149.8
					178.3

\* 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."

**Table 15. Average length of stay for discharges from short-stay hospitals, by geographic region and first-listed diagnosis: United States, 1996**

[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	North-east	Midwest	South	West
Average length of stay in days					
All conditions . . . . .	5.2	6.2	5.0	5.2	4.5
Infectious and parasitic diseases . . . . .	001–139	7.4	8.9	6.3	7.0
Septicemia . . . . .	038	8.5	10.5	7.1	8.4
Neoplasms . . . . .	140–239	6.2	7.2	5.9	6.1
Malignant neoplasms . . . . .	140–208,230–234	7.0	8.0	6.6	6.9
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	9.8	11.4	9.0	10.0
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	7.0	7.0	7.6	7.5
Malignant neoplasm of breast . . . . .	174–175,198.81	3.0	3.6	2.4	3.0
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	3.7	4.1	3.7	3.6
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	5.3	6.5	4.9	5.0
Diabetes mellitus . . . . .	250	6.3	7.9	5.9	5.5
Volume depletion . . . . .	276.5	4.5	5.5	4.0	4.6
Diseases of the blood and blood-forming organs . . . . .	280–289	4.9	5.4	4.4	5.1
Mental disorders . . . . .	290–319	8.5	10.0	7.5	8.3
Psychoses . . . . .	290–299	9.8	12.0	8.4	9.3
Alcohol dependence syndrome . . . . .	303	6.9	7.3	7.0	6.7
Diseases of the nervous system and sense organs . . . . .	320–389	5.1	5.1	5.6	5.2
Diseases of the central nervous system . . . . .	320–349	6.5	6.9	6.4	6.7
Diseases of the ear and mastoid process . . . . .	380–389	2.6	2.6	2.8	2.6
Diseases of the circulatory system . . . . .	390–459	5.5	6.4	5.2	5.5
Heart disease . . . . .	391–392,0,393–398,402,404,410–416,420–429	5.2	6.2	5.0	5.1
Acute myocardial infarction . . . . .	410	6.3	7.5	6.0	6.3
Coronary atherosclerosis . . . . .	414.0	4.7	5.1	5.1	4.5
Other ischemic heart disease . . . . .	411–413,414.1–414.9	3.4	4.4	2.9	3.3
Cardiac dysrhythmias . . . . .	427	3.9	4.7	3.5	4.0
Congestive heart failure . . . . .	428.0	6.0	7.3	5.6	5.9
Cerebrovascular disease . . . . .	430–438	6.7	7.8	5.4	6.7
Diseases of the respiratory system . . . . .	460–519	5.9	6.6	5.7	6.0
Acute respiratory infections . . . . .	460–466	3.3	4.2	3.1	3.1
Chronic disease of tonsils and adenoids . . . . .	474	1.6	1.4	*	*1.4
Pneumonia . . . . .	480–486	6.5	7.7	5.9	6.7
Asthma . . . . .	493	3.6	3.9	2.8	4.1
Diseases of the digestive system . . . . .	520–579	5.1	5.9	4.9	5.0
Ulcers of the stomach and small intestine . . . . .	531–534	6.0	8.0	5.1	5.5
Appendicitis . . . . .	540–543	3.5	3.8	3.4	3.8
Inguinal hernia . . . . .	550	2.7	2.5	3.0	2.9
Noninfectious enteritis and colitis . . . . .	555–558	5.1	6.7	5.4	4.0
Cholelithiasis . . . . .	574	4.0	4.0	3.6	4.7
Diseases of the genitourinary system . . . . .	580–629	4.1	4.7	3.8	4.2
Calculus of kidney and ureter . . . . .	592	2.3	2.4	2.2	2.4
Hyperplasia of prostate . . . . .	600	3.5	3.9	3.7	3.8
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	2.5	2.6	2.3	2.5
Abortions and ectopic and molar pregnancies . . . . .	630–639	1.8	1.7	1.8	1.9
Diseases of the skin and subcutaneous tissue . . . . .	680–709	6.3	7.1	5.5	6.7
Cellulitis and abscess . . . . .	681–682	5.6	6.4	5.1	6.1
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	4.8	5.3	4.3	4.7
Arthropathies and related disorders . . . . .	710–719	5.0	4.9	4.5	5.4
Intervertebral disc disorders . . . . .	722	3.1	3.8	2.8	3.0
Congenital anomalies . . . . .	740–759	6.5	6.8	6.7	7.7
Certain conditions originating in the perinatal period . . . . .	760–779	10.1	9.2	9.9	11.6
Symptoms, signs, and ill-defined conditions . . . . .	780–799	3.3	2.9	2.0	3.7
Injury and poisoning . . . . .	800–999	5.4	6.1	4.9	5.7
Fractures, all sites . . . . .	800–829	5.9	6.8	5.3	6.3
Fracture of neck of femur . . . . .	820	7.4	9.9	6.3	7.9
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	6.7	6.2	5.2	7.4
Open wounds . . . . .	870–897	3.3	3.6	3.2	3.6
Supplementary classifications . . . . .	V01–V82	2.7	3.3	3.4	2.4
Females with deliveries . . . . .	V27	2.2	2.6	2.2	1.9

\* 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."

**Table 16. Number of all-listed diagnoses for discharges from short-stay hospitals, by age and diagnosis: United States, 1996**

[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 . . . . .	121,712	5,841	32,792	25,464	57,615
Infectious and parasitic diseases . . . . .	001–139	3,527	480	978	657
Septicemia . . . . .	038	661	45	97	125
Neoplasms . . . . .	140–239	4,488	107	694	1,382
Malignant neoplasms . . . . .	140–208,230–234	3,502	87	343	1,066
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	250	*	12	63
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	506	*7	32	167
Malignant neoplasm of breast . . . . .	174–175,198.81	184	*	22	74
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	986	20	350	317
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	12,023	492	1,705	3,204
Diabetes mellitus . . . . .	250	4,157	32	459	1,276
Volume depletion . . . . .	276.5	1,791	287	311	244
Diseases of the blood and blood-forming organs . . . . .	280–289	3,921	179	954	815
Mental disorders . . . . .	290–319	7,351	227	3,484	1,627
Psychoses . . . . .	290–299	2,612	52	963	451
Alcohol dependence syndrome . . . . .	303	772	*	426	251
Diseases of the nervous system and sense organs . . . . .	320–389	3,456	416	572	634
Diseases of the central nervous system . . . . .	320–349	1,948	130	361	349
Diseases of the ear and mastoid process . . . . .	380–389	421	223	49	42
Diseases of the circulatory system . . . . .	390–459	26,992	116	1,561	6,391
Heart disease . . . . .	391–392,0,393–398,402,404,410–416,420–429	17,049	75	774	3,875
Acute myocardial infarction . . . . .	410	919	*	44	302
Coronary atherosclerosis . . . . .	414.0	3,862	*	107	1,046
Other ischemic heart disease . . . . .	411–413,414.1–414.9	2,561	*	120	786
Cardiac dysrhythmias . . . . .	427	3,383	24	157	592
Congestive heart failure . . . . .	428.0	2,844	14	78	444
Cerebrovascular disease . . . . .	430–438	1,881	*7	73	343
Diseases of the respiratory system . . . . .	460–519	9,368	1,098	1,314	1,893
Acute respiratory infections . . . . .	460–466	735	313	145	102
Chronic disease of tonsils and adenoids . . . . .	474	43	31	11	*
Pneumonia . . . . .	480–486	1,914	261	250	301
Asthma . . . . .	493	1,183	298	359	246
Diseases of the digestive system . . . . .	520–579	8,156	435	1,733	2,096
Ulcers of the stomach and small intestine . . . . .	531–534	507	*	67	143
Appendicitis . . . . .	540–543	268	66	145	38
Inguinal hernia . . . . .	550	106	16	15	18
Noninfectious enteritis and colitis . . . . .	555–558	598	128	159	109
Cholelithiasis . . . . .	574	695	*	182	205
Diseases of the genitourinary system . . . . .	580–629	6,812	155	1,997	1,589
Calculus of kidney and ureter . . . . .	592	251	*	108	85
Hyperplasia of prostate . . . . .	600	351	—	*	63
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	8,265	24	8,234	*7
Abortions and ectopic and molar pregnancies . . . . .	630–639	123	*	123	*
Diseases of the skin and subcutaneous tissue . . . . .	680–709	1,531	125	330	360
Cellulitis and abscess . . . . .	681–682	670	42	173	180
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	4,541	64	774	1,071
Arthropathies and related disorders . . . . .	710–719	2,001	20	226	401
Intervertebral disc disorders . . . . .	722	473	*	189	174
Congenital anomalies . . . . .	740–759	577	333	111	71
Certain conditions originating in the perinatal period . . . . .	760–779	416	412	*	*
Symptoms, signs, and ill-defined conditions . . . . .	780–799	5,998	512	1,373	1,487
Injury and poisoning . . . . .	800–999	5,919	436	2,027	1,189
Fractures, all sites . . . . .	800–829	1,566	100	484	253
Fracture of neck of femur . . . . .	820	390	*	12	26
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	205	26	83	28
Open wounds . . . . .	870–897	490	46	258	80
Supplementary classifications . . . . .	V01–V82	8,372	232	4,949	990
Females with deliveries . . . . .	V27	3,831	10	3,818	*

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

— Quantity zero.

... Category not applicable.

<sup>1</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."

**Table 17. Number of all-listed diagnoses for discharges from short-stay hospitals, by sex and diagnosis: United States, 1996**

[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 . . . . .	121,712	49,343	72,369
Infectious and parasitic diseases . . . . .	001–139	3,527	1,586
Septicemia . . . . .	038	661	320
Neoplasms . . . . .	140–239	4,488	1,876
Malignant neoplasms . . . . .	140–208,230–234	3,502	1,666
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	250	113
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	506	273
Malignant neoplasm of breast . . . . .	174–175,198.81	184	* 183
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	986	210
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	12,023	4,980
Diabetes mellitus . . . . .	250	4,157	1,875
Volume depletion . . . . .	276.5	1,791	713
Diseases of the blood and blood-forming organs . . . . .	280–289	3,921	1,536
Mental disorders . . . . .	290–319	7,351	3,685
Psychoses . . . . .	290–299	2,612	1,165
Alcohol dependence syndrome . . . . .	303	772	581
Diseases of the nervous system and sense organs . . . . .	320–389	3,456	1,567
Diseases of the central nervous system . . . . .	320–349	1,948	868
Diseases of the ear and mastoid process . . . . .	380–389	421	219
Diseases of the circulatory system . . . . .	390–459	26,992	13,151
Heart disease . . . . .	391–392.0,393–398,402,404,410–416,420–429	17,049	8,644
Acute myocardial infarction . . . . .	410	919	548
Coronary atherosclerosis . . . . .	414.0	3,862	2,166
Other ischemic heart disease . . . . .	411–413,414.1–414.9	2,561	1,442
Cardiac dysrhythmias . . . . .	427	3,383	1,696
Congestive heart failure . . . . .	428.0	2,844	1,241
Cerebrovascular disease . . . . .	430–438	1,881	861
Diseases of the respiratory system . . . . .	460–519	9,368	4,535
Acute respiratory infections . . . . .	460–466	735	357
Chronic disease of tonsils and adenoids . . . . .	474	43	22
Pneumonia . . . . .	480–486	1,914	957
Asthma . . . . .	493	1,183	432
Diseases of the digestive system . . . . .	520–579	8,156	3,538
Ulcers of the stomach and small intestine . . . . .	531–534	507	250
Appendicitis . . . . .	540–543	268	153
Inguinal hernia . . . . .	550	106	89
Noninfectious enteritis and colitis . . . . .	555–558	598	236
Cholelithiasis . . . . .	574	695	221
Diseases of the genitourinary system . . . . .	580–629	6,812	2,285
Calculus of kidney and ureter . . . . .	592	251	144
Hyperplasia of prostate . . . . .	600	351	351
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	8,265	...
Abortions and ectopic and molar pregnancies . . . . .	630–639	123	123
Diseases of the skin and subcutaneous tissue . . . . .	680–709	1,531	747
Cellulitis and abscess . . . . .	681–682	670	349
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	4,541	1,617
Arthropathies and related disorders . . . . .	710–719	2,001	653
Intervertebral disc disorders . . . . .	722	473	244
Congenital anomalies . . . . .	740–759	577	294
Certain conditions originating in the perinatal period . . . . .	760–779	416	247
Symptoms, signs, and ill-defined conditions . . . . .	780–799	5,998	2,694
Injury and poisoning . . . . .	800–999	5,919	3,095
Fractures, all sites . . . . .	800–829	1,566	727
Fracture of neck of femur . . . . .	820	390	92
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	205	127
Open wounds . . . . .	870–897	490	337
Supplementary classifications . . . . .	V01–V82	8,372	1,910
Females with deliveries . . . . .	V27	3,831	...

\* 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."

**Table 18. Number of all-listed diagnoses for discharges from short-stay hospitals, by geographic region and diagnosis: United States, 1996**

[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	North-east	Midwest	South	West
Number in thousands					
All conditions . . . . .	121,712	26,396	29,990	42,679	22,647
Infectious and parasitic diseases . . . . .	001–139	3,527	798	804	1,248
Septicemia . . . . .	038	661	148	141	247
Neoplasms . . . . .	140–239	4,488	1,128	1,022	1,487
Malignant neoplasms . . . . .	140–208,230–234	3,502	908	815	1,132
Malignant neoplasm of large intestine and rectum . . . . .	153–154,197.5	250	63	65	85
Malignant neoplasm of trachea, bronchus, and lung . . . . .	162,176.4,197.0,197.3	506	131	118	167
Malignant neoplasm of breast . . . . .	174–175,198.81	184	45	41	64
Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . . . .	210–229,235–239	986	220	206	355
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . .	240–279	12,023	2,522	3,179	4,244
Diabetes mellitus . . . . .	250	4,157	905	1,009	1,532
Volume depletion . . . . .	276.5	1,791	352	465	696
Diseases of the blood and blood-forming organs . . . . .	280–289	3,921	839	915	1,417
Mental disorders . . . . .	290–319	7,351	1,834	2,004	2,387
Psychoses . . . . .	290–299	2,612	643	704	893
Alcohol dependence syndrome . . . . .	303	772	189	212	244
Diseases of the nervous system and sense organs . . . . .	320–389	3,456	785	842	1,167
Diseases of the central nervous system . . . . .	320–349	1,948	424	486	676
Diseases of the ear and mastoid process . . . . .	380–389	421	101	112	125
Diseases of the circulatory system . . . . .	390–459	26,992	6,148	6,710	9,677
Heart disease . . . . .	391–392,0,393–398,402,404,410–416,420–429	17,049	3,987	4,206	6,068
Acute myocardial infarction . . . . .	410	919	212	227	321
Coronary atherosclerosis . . . . .	414.0	3,862	927	975	1,348
Other ischemic heart disease . . . . .	411–413,414.1–414.9	2,561	658	631	875
Cardiac dysrhythmias . . . . .	427	3,383	792	819	1,181
Congestive heart failure . . . . .	428.0	2,844	597	764	1,073
Cerebrovascular disease . . . . .	430–438	1,881	390	474	705
Diseases of the respiratory system . . . . .	460–519	9,368	1,999	2,331	3,475
Acute respiratory infections . . . . .	460–466	735	149	183	278
Chronic disease of tonsils and adenoids . . . . .	474	43	23	*	10
Pneumonia . . . . .	480–486	1,914	383	485	717
Asthma . . . . .	493	1,183	317	307	354
Diseases of the digestive system . . . . .	520–579	8,156	1,758	1,950	2,968
Ulcers of the stomach and small intestine . . . . .	531–534	507	106	134	175
Appendicitis . . . . .	540–543	268	47	60	84
Inguinal hernia . . . . .	550	106	34	22	34
Noninfectious enteritis and colitis . . . . .	555–558	598	132	150	225
Cholelithiasis . . . . .	574	695	161	156	245
Diseases of the genitourinary system . . . . .	580–629	6,812	1,383	1,602	2,632
Calculus of kidney and ureter . . . . .	592	251	54	60	98
Hyperplasia of prostate . . . . .	600	351	83	100	110
Complications of pregnancy, childbirth, and the puerperium <sup>1</sup> . . . . .	630–677	8,265	1,457	1,722	2,877
Abortions and ectopic and molar pregnancies . . . . .	630–639	123	34	20	52
Diseases of the skin and subcutaneous tissue . . . . .	680–709	1,531	363	391	503
Cellulitis and abscess . . . . .	681–682	670	153	168	217
Diseases of the musculoskeletal system and connective tissue . . . . .	710–739	4,541	924	1,186	1,590
Arthropathies and related disorders . . . . .	710–719	2,001	406	559	685
Intervertebral disc disorders . . . . .	722	473	89	108	194
Congenital anomalies . . . . .	740–759	577	195	126	141
Certain conditions originating in the perinatal period . . . . .	760–779	416	75	109	109
Symptoms, signs, and ill-defined conditions . . . . .	780–799	5,998	1,288	1,552	2,077
Injury and poisoning . . . . .	800–999	5,919	1,280	1,402	1,994
Fractures, all sites . . . . .	800–829	1,566	324	378	532
Fracture of neck of femur . . . . .	820	390	74	102	140
Intracranial injuries (excluding those with skull fracture) . . . . .	850–854	205	47	46	61
Open wounds . . . . .	870–897	490	96	115	166
Supplementary classifications . . . . .	V01–V82	8,372	1,619	2,143	2,686
Females with deliveries . . . . .	V27	3,831	624	785	1,385

\* 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."

**Table 19. Number and rate of discharges from short-stay hospitals with human immunodeficiency virus diagnoses, by selected characteristics: United States, 1990–96**

[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
Number in thousands							
All HIV discharges <sup>1</sup> . . . . .	146	165	194	225	234	249	227
Sex							
Male . . . . .	114	127	153	174	177	183	165
Female . . . . .	32	37	41	51	57	66	62
Age							
Under 25 years . . . . .	14	16	16	14	18	17	12
25–29 years . . . . .	20	25	26	37	20	26	18
30–34 years . . . . .	38	38	42	46	50	48	44
35–39 years . . . . .	36	36	53	51	56	59	52
40–44 years . . . . .	17	25	30	40	44	49	49
45 years and over . . . . .	21	25	27	37	45	51	53
Region							
Northeast . . . . .	66	61	75	94	91	95	86
Midwest . . . . .	20	26	23	28	33	27	25
South . . . . .	37	44	56	64	78	87	77
West . . . . .	24	33	40	39	32	41	39
Rate per 100,000 population							
All HIV discharges <sup>1</sup> . . . . .	59.1	65.7	76.4	87.7	90.2	95.4	86.0
Sex							
Male . . . . .	95.3	104.6	124.1	139.5	140.4	144.3	128.0
Female . . . . .	25.0	29.1	31.4	38.8	42.9	49.1	46.0
Age							
Under 25 years . . . . .	15.3	17.1	18.0	15.5	19.8	18.2	13.0
25–29 years . . . . .	98.1	122.3	133.3	191.7	107.5	136.8	94.5
30–34 years . . . . .	175.9	173.7	189.6	208.3	227.2	220.3	207.3
35–39 years . . . . .	181.6	178.7	253.1	238.1	257.3	266.1	230.7
40–44 years . . . . .	95.9	132.4	158.0	209.4	225.2	243.8	235.4
45 years and over . . . . .	27.2	32.0	33.0	44.6	53.6	59.8	60.3
Region							
Northeast . . . . .	129.9	120.7	147.8	184.2	177.9	184.9	166.3
Midwest . . . . .	33.8	43.7	37.4	45.1	53.1	43.8	40.7
South . . . . .	43.1	50.6	63.6	72.0	86.9	95.0	83.6
West . . . . .	45.3	62.3	73.3	70.5	56.1	71.2	66.7

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

**Table 20. Number of deaths and fatality rate for discharges from short-stay hospitals, by age and selected first-listed diagnoses: United States, 1996**

[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	All ages	Under 65 years	65 years and over
	Number in thousands			Rate per 100 discharges		
All deaths <sup>1</sup> . . . . .	815	215	600	2.7	1.1	5.1
Heart disease . . . . . 391–392.0, 393–398, 402, 404, 410–416, 420–429	182	32	150	4.3	2.1	5.5
Acute myocardial infarction . . . . .	410	88	15	10.7	4.5	14.7
Cardiac dysrhythmias . . . . .	427	20	* <sup>2</sup>	3.3	*	3.6
Congestive heart failure . . . . .	428.0	43	*6	5.0	*3.3	5.4
Malignant neoplasms . . . . . 140–208, 230–234	110	41	69	8.0	6.5	9.2
Malignant neoplasms of trachea, bronchus, and lung . . . . . 162, 176.4, 197.0, 197.3	31	12	19	14.6	13.1	15.6
Malignant neoplasms of lymphatic and hematopoietic tissue . . . . . 176.5, 196, 200–208	21	*8	13	13.5	*9.3	18.6
Pneumonia . . . . . 480–486	66	11	55	5.5	2.2	7.9
Cerebrovascular disease . . . . . 430–438	62	11	51	6.5	4.9	7.0
Injury and poisoning . . . . . 800–999	47	16	31	1.8	1.0	3.2
Septicemia . . . . . 038	47	9	38	13.3	7.8	16.0
Respiratory failure . . . . .	518.81	43	13	29	25.9	20.4

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

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

**Table 21. Number of discharges from short-stay hospitals with and without procedures and percent with procedures, by selected characteristics: United States, 1996**

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

Characteristic	All discharges	Discharges without procedures	Discharges with procedures			
			Total	With surgical procedures	Total	With surgical procedures
		Number in thousands			Percent	
All patients . . . . .	30,545	11,251	19,294	14,054	63.2	46.0
Age						
Under 15 years . . . . .	2,207	1,183	1,024	546	46.4	24.7
15–44 years . . . . .	10,325	2,855	7,471	5,852	72.4	56.7
45–64 years . . . . .	6,294	2,149	4,145	3,057	65.9	48.6
65 years and over . . . . .	11,718	5,064	6,655	4,599	56.8	39.2
65–74 years . . . . .	4,804	1,776	3,028	2,203	63.0	45.9
75–84 years . . . . .	4,724	2,102	2,623	1,782	55.5	37.7
85 years and over . . . . .	2,190	1,186	1,004	614	45.8	28.0
Sex						
Male . . . . .	12,110	4,777	7,333	5,047	60.6	41.7
Female . . . . .	18,435	6,474	11,961	9,006	64.9	48.9
Region						
Northeast . . . . .	6,665	2,146	4,520	3,011	67.8	45.2
Midwest . . . . .	7,107	3,017	4,090	3,107	57.5	43.7
South . . . . .	11,085	4,530	6,556	4,992	59.1	45.0
West . . . . .	5,688	1,559	4,129	2,944	72.6	51.8

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, 1996**

[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 100,000 population	
Surgical procedures <sup>1</sup> . . . . .	22,980	8,704.7	
Episiotomy with or without forceps or vacuum extraction . . . . .	72.1,72.21,72.31,72.71,73.6	1,294	490.3
Cardiac catheterization . . . . .	37.21–37.23	1,161	439.7
Repair of current obstetric laceration . . . . .	75.5–75.6	1,061	401.9
Cesarean section . . . . .	74.0–74.2,74.4,74.99	835	316.3
Artificial rupture of membranes . . . . .	73.0	729	276.3
Removal of coronary artery obstruction <sup>2</sup> . . . . .	36.0	666	252.4
Coronary artery bypass graft <sup>2</sup> . . . . .	36.1	598	226.6
Hysterectomy . . . . .	68.3–68.7,68.9	591	223.8
Oophorectomy and salpingo-oophorectomy . . . . .	65.3–65.6	475	180.0
Endoscopy of small intestine with biopsy . . . . .	45.14,45.16	458	173.5
Cholecystectomy . . . . .	51.2	448	169.8
Open reduction of fracture, with internal fixation . . . . .	79.3	432	163.5
Bilateral destruction or occlusion of fallopian tubes . . . . .	66.2–66.3	342	129.7
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . .	37.7–37.8	341	129.3
Debridement of wound, infection, or burn . . . . .	86.22,86.28	340	129.0
Lysis of peritoneal adhesions . . . . .	54.5	338	128.2
Excision or destruction of intervertebral disc . . . . .	80.5	288	109.0
Appendectomy, excluding incidental . . . . .	47.0	263	99.4
Nonsurgical procedures <sup>3</sup> . . . . .	17,417	6,597.3	
Arteriography and angiography using contrast material . . . . .	88.4–88.5	1,964	744.0
Diagnostic ultrasound . . . . .	88.7	1,177	445.7
Respiratory therapy . . . . .	93.9,96.7	1,085	411.2
Manual assisted delivery . . . . .	73.5	1,031	390.5
Computerized axial tomography . . . . .	87.03,87.41,87.71,88.01,88.38	995	377.0
Hemodialysis . . . . .	39.95	413	156.6
Medical induction of labor . . . . .	73.4	389	147.5
Endoscopy of small intestine without biopsy . . . . .	45.11–45.13	383	145.3
Circulatory monitoring . . . . .	89.6	337	127.8
Endoscopy of large intestine without biopsy . . . . .	45.21–45.24	323	122.3
Spinal tap . . . . .	03.31	310	117.5
Radioisotope scan . . . . .	92.0–92.1	298	112.9

<sup>1</sup>Includes data for surgical conditions 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, 1996**

[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>	7,628	3,786	2,927	915
Cardiac catheterization	37.21–37.23	561	342	197
Coronary artery bypass graft <sup>2</sup>	36.1	335	227	104
Removal of coronary artery obstruction <sup>2</sup>	36.0	322	211	102
Insertion, replacement, removal, and repair of pacemaker leads or device	37.7–37.8	283	85	139
Endoscopy of small intestine with biopsy	45.14,45.16	263	95	115
Open reduction of fracture, with internal fixation	79.3	205	51	81
Total knee replacement	81.54	181	99	72
Cholecystectomy	51.2	160	81	62
Prostatectomy	60.2–60.6	153	85	53
Debridement of wound, infection, or burn	86.22,86.28	130	59	46
Rate per 100,000 population				
Surgical procedures <sup>1</sup>	22,527.5	20,279.6	25,604.0	24,335.3
Cardiac catheterization	37.21–37.23	1,658.0	1,829.8	1,725.6
Coronary artery bypass graft <sup>2</sup>	36.1	989.2	1,214.7	906.1
Removal of coronary artery obstruction <sup>2</sup>	36.0	950.3	1,127.7	888.9
Insertion, replacement, removal, and repair of pacemaker leads or device	37.7–37.8	836.4	455.5	1,212.1
Endoscopy of small intestine with biopsy	45.14,45.16	776.3	509.7	1,005.9
Open reduction of fracture, with internal fixation	79.3	605.2	270.9	705.8
Total knee replacement	81.54	535.1	529.2	632.1
Cholecystectomy	51.2	474.0	432.4	544.8
Prostatectomy	60.2–60.6	453.3	456.2	462.3
Debridement of wound, infection, or burn	86.22,86.28	382.8	313.9	405.0
Nonsurgical procedures <sup>3</sup>	20,418.7	16,539.0	23,914.7	29,049.9
Arteriography and angiography using contrast material	88.4–88.5	2,850.2	3,063.5	3,022.8
Diagnostic ultrasound	88.7	1,822.4	1,334.8	2,228.4
Respiratory therapy	93.9,96.7	1,442.8	1,104.1	1,710.3
Computerized axial tomography	87.03,87.41,87.71,88.01,88.38	1,465.3	1,046.8	1,788.3
Endoscopy of small intestine without biopsy	45.11–45.13	656.3	419.4	845.5
Endoscopy of large intestine without biopsy	45.21–45.24	647.9	423.9	811.8
Circulatory monitoring	89.6	577.1	423.2	703.2
Hemodialysis	39.95	576.0	619.7	590.5
Radioisotope scan	92.0–92.1	469.1	401.1	535.5

\* Figure does not meet standards 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 a procedure.

<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, 1996**

[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 100,000 population	Number in thousands	Rate per 100,000 population
Discharges with procedures				
Total . . . . .	485	183.5	367	138.9
Sex				
Male . . . . .	324	251.7	255	198.3
Female . . . . .	161	118.7	112	82.5
Age				
Under 15 years . . . . .	*	*	*	*
15–44 years . . . . .	28	23.9	12	9.8
45–64 years . . . . .	220	409.7	144	268.8
65 years and over . . . . .	235	694.5	210	621.6
65–74 years . . . . .	154	824.5	137	733.5
75–84 years . . . . .	74	650.0	69	607.7
85 years and over . . . . .	*7	*184.7	*	*
Region				
Northeast . . . . .	86	167.1	89	172.6
Midwest . . . . .	131	211.8	102	164.4
South . . . . .	164	177.2	113	122.8
West . . . . .	103	178.1	63	107.5
Procedures				
Total . . . . .	666	252.4	598	226.6
Sex				
Male . . . . .	452	351.2	424	329.1
Female . . . . .	214	158.4	175	129.2
Age				
Under 15 years . . . . .	*	*	*	*
15–44 years . . . . .	37	30.9	20	17.1
45–64 years . . . . .	307	571.5	242	451.3
65 years and over . . . . .	322	950.3	335	989.2
65–74 years . . . . .	211	1,127.7	227	1,214.7
75–84 years . . . . .	102	888.9	104	906.1
85 years and over . . . . .	10	256.3	*	*
Region				
Northeast . . . . .	118	229.2	150	291.6
Midwest . . . . .	183	295.5	164	264.5
South . . . . .	231	249.6	183	198.2
West . . . . .	135	231.5	101	173.8

\* 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, 1996**

[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedures groupings and code numbers are based on the *International Classification of Disease, 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 . . . . .	40,397	1,950	14,603	9,302	14,542
Operations on the nervous system . . . . .	01–05	937	199	317	196
Spinal tap . . . . .	03.31	310	137	80	39
Operations on the endocrine system . . . . .	06–07	101	* <sup>1</sup>	33	37
Operations on the eye . . . . .	08–16	188	10	35	44
Operations on the ear . . . . .	18–20	58	35	13	*
Operations on the nose, mouth, and pharynx . . . . .	21–29	323	69	121	72
Tonsillectomy with or without adenoidectomy . . . . .	28.2–28.3	36	24	9	*
Operations on the respiratory system . . . . .	30–34	1,038	57	172	298
Bronchoscopy with or without biopsy . . . . .	33.21–33.24, 33.27	305	18	42	90
Operations on the cardiovascular system . . . . .	35–39	5,444	164	544	1,882
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . .	36.0	666	*	37	307
Coronary artery bypass graft <sup>1</sup> . . . . .	36.1	598	*	20	242
Cardiac catheterization . . . . .	37.21–37.23	1,161	14	90	496
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . .	37.7–37.8	341	*	9	46
Shunt or vascular bypass . . . . .	39.0–39.2	193	*	17	56
Hemodialysis . . . . .	39.95	413	*	73	143
Operations on the hemic and lymphatic system . . . . .	40–41	348	19	62	115
Operations on the digestive system . . . . .	42–54	4,976	218	1,206	1,247
Endoscopy of small intestine with or without biopsy . . . . .	45.11–45.14, 45.16	841	12	133	211
Endoscopy of large intestine with or without biopsy . . . . .	45.21–45.25	490	*	63	109
Partial excision of large intestine . . . . .	45.7	226	*	28	57
Appendectomy, excluding incidental . . . . .	47.0	263	64	144	36
Cholecystectomy . . . . .	51.2	448	*	136	147
Repair of inguinal hernia . . . . .	53.0–53.1	77	12	11	14
Lysis of peritoneal adhesions . . . . .	54.5	338	*	149	84
Operations on the urinary system . . . . .	55–59	1,016	34	245	298
Cystoscopy with or without biopsy . . . . .	57.31–57.33	208	* <sup>5</sup>	35	49
Operations on the male genital organs . . . . .	60–64	302	29	15	66
Prostatectomy . . . . .	60.2–60.6	203	—	*	48
Operations on the female genital organs . . . . .	65–71	2,096	9	1,272	575
Oophorectomy and salpingo-oophorectomy . . . . .	65.3–65.6	475	*	211	206
Bilateral destruction or occlusion of fallopian tubes . . . . .	66.2–66.3	342	—	341	*
Hysterectomy . . . . .	68.3–68.7, 68.9	591	*	309	217
Dilation and curettage of uterus . . . . .	69.0	83	*	66	12
Repair of cystocele and rectocele . . . . .	70.5	151	—	35	62
Obstetrical procedures . . . . .	72–75	6,540	18	6,519	*
Episiotomy with or without forceps or vacuum extraction . . . . .	72.1, 72.21, 72.31, 72.71, 73.6	1,294	*	1,290	*
Artificial rupture of membranes . . . . .	73.0	729	*	727	*
Cesarean section . . . . .	74.0–74.2, 74.4, 74.99	835	*	832	*
Repair of current obstetric laceration . . . . .	75.5–75.6	1,061	*	1,059	*
Operations on the musculoskeletal system . . . . .	76–84	3,134	165	960	841
Partial excision of bone . . . . .	76.2–76.3, 77.6–77.8	231	11	86	84
Open reduction of fracture with internal fixation . . . . .	79.3	432	17	128	82
Excision or destruction of intervertebral disc . . . . .	80.5	288	*	134	117
Total hip replacement . . . . .	81.51	138	—	* <sup>8</sup>	35
Total knee replacement . . . . .	81.54	245	—	*	59
Operations on the integumentary system . . . . .	85–86	1,290	78	402	360
Mastectomy . . . . .	85.4	89	*	10	36
Debridement of wound, infection, or burn . . . . .	86.22, 86.28	340	17	98	96
Skin graft . . . . .	86.6–86.7	93	* <sup>8</sup>	31	23
Miscellaneous diagnostic and therapeutic procedures . . . . .	87–99	12,604	841	2,687	3,263
Computerized axial tomography . . . . .	87.03, 87.41, 87.71, 88.01, 88.38	995	46	225	228
Pyelogram . . . . .	87.73–87.75	154	*	52	49
Arteriography and angiography using contrast material . . . . .	88.4–88.5	1,964	16	171	812
Diagnostic ultrasound . . . . .	88.7	1,177	43	252	264
Circulatory monitoring . . . . .	89.6	337	12	49	81
Radioisotope scan . . . . .	92.0–92.1	298	* <sup>6</sup>	47	87
Respiratory therapy . . . . .	93.9, 96.7	1,085	221	152	224

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

— Quantity zero.

... 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, 1996**

[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
Rate per 100,000 population					
All procedures . . . . .	15,302.0	3,379.2	12,299.0	17,323.8	42,946.2
Operations on the nervous system . . . . .	01–05	355.0	345.2	267.0	365.8
Spinal tap . . . . .	03.31	117.5	237.3	67.3	73.5
Operations on the endocrine system . . . . .	06–07	38.1	*	27.8	68.5
Operations on the eye . . . . .	08–16	71.3	18.1	29.8	81.6
Operations on the ear . . . . .	18–20	22.0	60.4	10.8	*
Operations on the nose, mouth, and pharynx . . . . .	21–29	122.5	119.7	102.2	133.3
Tonsillectomy with or without adenoidectomy . . . . .	28.2–28.3	13.5	41.3	7.8	*
Operations on the respiratory system . . . . .	30–34	393.4	99.0	145.1	554.2
Bronchoscopy with or without biopsy . . . . .	33.21–33.24, 33.27	115.6	31.7	35.8	166.7
Operations on the cardiovascular system . . . . .	35–39	2,062.0	284.8	457.8	3,505.9
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . .	36.0	252.4	*	30.9	571.5
Coronary artery bypass graft <sup>1</sup> . . . . .	36.1	226.6	*	17.1	451.3
Cardiac catheterization . . . . .	37.21–37.23	439.7	23.7	75.8	923.1
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . .	37.7–37.8	129.3	*	8.0	84.8
Shunt or vascular bypass . . . . .	39.0–39.2	73.0	*	14.6	103.4
Hemodialysis . . . . .	39.95	156.6	*	61.2	266.9
Operations on the hemic and lymphatic system . . . . .	40–41	131.7	32.6	52.2	214.8
Operations on the digestive system . . . . .	42–54	1,885.0	378.2	1,015.9	2,322.8
Endoscopy of small intestine with or without biopsy . . . . .	45.11–45.14, 45.16	318.7	20.7	112.1	393.4
Endoscopy of large intestine with or without biopsy . . . . .	45.21–45.25	185.7	*	53.1	203.6
Partial excision of large intestine . . . . .	45.7	85.6	*	23.6	107.1
Appendectomy, excluding incidental . . . . .	47.0	99.4	111.1	121.6	67.1
Cholecystectomy . . . . .	51.2	169.8	*	114.7	273.8
Repair of inguinal hernia . . . . .	53.0–53.1	29.3	20.5	9.4	26.9
Lysis of peritoneal adhesions . . . . .	54.5	128.2	*	125.3	157.3
Operations on the urinary system . . . . .	55–59	385.0	59.8	206.4	555.5
Cystoscopy with or without biopsy . . . . .	57.31–57.33	78.7	*9.1	29.3	91.8
Operations on the male genital organs . . . . .	60–64	114.3	50.6	12.4	123.2
Prostatectomy . . . . .	60.2–60.6	76.7	—	*	89.9
Operations on the female genital organs . . . . .	65–71	793.9	15.7	1,071.6	1,070.6
Oophorectomy and salpingo-oophorectomy . . . . .	65.3–65.6	180.0	*	178.1	384.4
Bilateral destruction or occlusion of fallopian tubes . . . . .	66.2–66.3	129.7	—	287.5	*
Hysterectomy . . . . .	68.3–68.7, 68.9	223.8	*	260.4	404.9
Dilation and curettage of uterus . . . . .	69.0	31.4	*	55.4	22.5
Repair of cystocele and rectocele . . . . .	70.5	57.2	—	29.1	115.5
Obstetrical procedures . . . . .	72–75	2,477.4	31.3	5,490.3	*
Episiotomy with or without forceps or vacuum extraction . . . . .	72.1, 72.21, 72.31, 72.71, 73.6	490.3	*	1,086.1	*
Artificial rupture of membranes . . . . .	73.0	276.3	*	612.0	*
Cesarean section . . . . .	74.0–74.2, 74.4, 74.99	316.3	*	701.1	*
Repair of current obstetric laceration . . . . .	75.5–75.6	401.9	*	891.6	*
Operations on the musculoskeletal system . . . . .	76–84	1,187.2	286.2	808.7	1,565.6
Partial excision of bone . . . . .	76.2–76.3, 77.6–77.8	87.5	19.5	72.6	156.5
Open reduction of fracture with internal fixation . . . . .	79.3	163.5	29.1	107.8	152.4
Excision or destruction of intervertebral disc . . . . .	80.5	109.0	*	112.8	218.2
Total hip replacement . . . . .	81.51	52.2	—	*6.9	64.7
Total knee replacement . . . . .	81.54	92.9	—	*	110.7
Operations on the integumentary system . . . . .	85–86	488.7	135.5	338.2	670.9
Mastectomy . . . . .	85.4	33.6	*	8.6	67.3
Debridement of wound, infection, or burn . . . . .	86.22, 86.28	129.0	30.3	82.2	178.3
Skin graft . . . . .	86.6–86.7	35.1	*13.9	26.1	43.7
Miscellaneous diagnostic and therapeutic procedures . . . . .	87–99	4,774.5	1,457.5	2,262.8	6,077.6
Computerized axial tomography . . . . .	87.03, 87.41, 87.71, 88.01, 88.38	377.0	79.9	189.4	424.6
Pyelogram . . . . .	87.73–87.75	58.3	*	43.6	91.5
Arteriography and angiocardiology using contrast material . . . . .	88.4–88.5	744.0	27.8	143.9	1,512.8
Diagnostic ultrasound . . . . .	88.7	445.7	75.2	212.4	491.4
Circulatory monitoring . . . . .	89.6	127.8	20.8	41.2	151.1
Radioisotope scan . . . . .	92.0–92.1	112.9	*9.9	39.5	161.5
Respiratory therapy . . . . .	93.9, 96.7	411.2	383.4	127.6	417.4

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

— Quantity zero.

. . . 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, 1996**

[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 . . . . .	40,397	15,997	24,400
Operations on the nervous system . . . . .	937	431	506
Spinal tap . . . . .	310	157	153
Operations on the endocrine system . . . . .	101	29	71
Operations on the eye . . . . .	188	94	95
Operations on the ear . . . . .	58	35	23
Operations on the nose, mouth, and pharynx . . . . .	323	189	135
Tonsillectomy with or without adenoidectomy . . . . .	28.2–28.3	36	17
Operations on the respiratory system . . . . .	1,038	582	456
Bronchoscopy with or without biopsy . . . . .	33.21–33.24, 33.27	305	178
Operations on the cardiovascular system . . . . .	5,444	3,231	2,213
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . .	36.0	666	452
Coronary artery bypass graft <sup>1</sup> . . . . .	36.1	598	424
Cardiac catheterization . . . . .	37.21–37.23	1,161	704
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . .	37.7–37.8	341	171
Shunt or vascular bypass . . . . .	39.0–39.2	193	108
Hemodialysis . . . . .	39.95	413	209
Operations on the hemic and lymphatic system . . . . .	40–41	348	169
Operations on the digestive system . . . . .	42–54	4,976	2,152
Endoscopy of small intestine with or without biopsy . . . . .	45.11–45.14, 45.16	841	396
Endoscopy of large intestine with or without biopsy . . . . .	45.21–45.25	490	200
Partial excision of large intestine . . . . .	45.7	226	101
Appendectomy, excluding incidental . . . . .	47.0	263	146
Cholecystectomy . . . . .	51.2	448	142
Repair of inguinal hernia . . . . .	53.0–53.1	77	63
Lysis of peritoneal adhesions . . . . .	54.5	338	69
Operations on the urinary system . . . . .	55–59	1,016	510
Cystoscopy with or without biopsy . . . . .	57.31–57.33	208	130
Operations on the male genital organs . . . . .	60–64	302	302
Prostatectomy . . . . .	60.2–60.6	203	203
Operations on the female genital organs . . . . .	65–71	2,096	...
Oophorectomy and salpingo-oophorectomy . . . . .	65.3–65.6	475	475
Bilateral destruction or occlusion of fallopian tubes . . . . .	66.2–66.3	342	342
Hysterectomy . . . . .	68.3–68.7, 68.9	591	591
Dilation and curettage of uterus . . . . .	69.0	83	83
Repair of cystocele and rectocele . . . . .	70.5	151	151
Obstetrical procedures . . . . .	72–75	6,540	6,540
Episiotomy with or without forceps or vacuum extraction . . . . .	72.1, 72.21, 72.31, 72.71, 73.6	1,294	1,294
Artificial rupture of membranes . . . . .	73.0	729	729
Cesarean section . . . . .	74.0–74.2, 74.4, 74.99	835	835
Repair of current obstetric laceration . . . . .	75.5–75.6	1,061	1,061
Operations on the musculoskeletal system . . . . .	76–84	3,134	1,546
Partial excision of bone . . . . .	76.2–76.3, 77.6–77.8	231	120
Open reduction of fracture with internal fixation . . . . .	79.3	432	170
Excision or destruction of intervertebral disc . . . . .	80.5	288	164
Total hip replacement . . . . .	81.51	138	57
Total knee replacement . . . . .	81.54	245	88
Operations on the integumentary system . . . . .	85–86	1,290	572
Mastectomy . . . . .	85.4	89	*
Debridement of wound, infection, or burn . . . . .	86.22, 86.28	340	195
Skin graft . . . . .	86.6–86.7	93	52
Miscellaneous diagnostic and therapeutic procedures . . . . .	87–99	12,604	6,155
Computerized axial tomography . . . . .	87.03, 87.41, 87.71, 88.01, 88.38	995	493
Pyelogram . . . . .	87.73–87.75	154	84
Arteriography and angiography using contrast material . . . . .	88.4–88.5	1,964	1,165
Diagnostic ultrasound . . . . .	88.7	1,177	501
Circulatory monitoring . . . . .	89.6	337	168
Radioisotope scan . . . . .	92.0–92.1	298	126
Respiratory therapy . . . . .	93.9, 96.7	1,085	554

\* 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 28. Rate of all-listed procedures for discharges from short-stay hospitals, by sex and procedure category: United States, 1996**

[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
Rate per 100,000 population			
All procedures . . . . .	15,302.0	12,430.7	18,033.1
Operations on the nervous system . . . . .	355.0	334.8	374.3
Spinal tap . . . . .	117.5	122.2	113.0
Operations on the endocrine system . . . . .	38.1	22.7	52.8
Operations on the eye . . . . .	71.3	72.8	69.9
Operations on the ear . . . . .	22.0	27.4	17.0
Operations on the nose, mouth, and pharynx . . . . .	122.5	146.6	99.6
Tonsillectomy with or without adenoidectomy . . . . .	28.2–28.3	13.5	12.5
Operations on the respiratory system . . . . .	393.4	452.4	337.2
Bronchoscopy with or without biopsy . . . . .	33.21–33.24,33.27	115.6	138.2
Operations on the cardiovascular system . . . . .	2,062.0	2,510.7	1,635.2
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . .	36.0	252.4	158.4
Coronary artery bypass graft <sup>1</sup> . . . . .	36.1	226.6	129.2
Cardiac catheterization . . . . .	37.21–37.23	439.7	546.8
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . .	37.7–37.8	129.3	133.2
Shunt or vascular bypass . . . . .	39.0–39.2	73.0	83.6
Hemodialysis . . . . .	39.95	156.6	154.3
Operations on the hemic and lymphatic system . . . . .	40–41	131.7	131.4
Operations on the digestive system . . . . .	42–54	1,885.0	1,672.2
Endoscopy of small intestine with or without biopsy . . . . .	45.11–45.14,45.16	318.7	307.7
Endoscopy of large intestine with or without biopsy . . . . .	45.21–45.25	185.7	155.6
Partial excision of large intestine . . . . .	45.7	85.6	78.5
Appendectomy, excluding incidental . . . . .	47.0	99.4	113.3
Cholecystectomy . . . . .	51.2	169.8	110.6
Repair of inguinal hernia . . . . .	53.0–53.1	29.3	49.3
Lysis of peritoneal adhesions . . . . .	54.5	128.2	53.7
Operations on the urinary system . . . . .	55–59	385.0	396.7
Cystoscopy with or without biopsy . . . . .	57.31–57.33	78.7	100.7
Operations on the male genital organs . . . . .	60–64	114.3	234.5
Prostatectomy . . . . .	60.2–60.6	76.7	157.4
Operations on the female genital organs . . . . .	65–71	793.9	...
Oophorectomy and salpingo-oophorectomy . . . . .	65.3–65.6	180.0	351.2
Bilateral destruction or occlusion of fallopian tubes . . . . .	66.2–66.3	129.7	253.0
Hysterectomy . . . . .	68.3–68.7,68.9	223.8	436.6
Dilation and curettage of uterus . . . . .	69.0	31.4	61.4
Repair of cystocele and rectocele . . . . .	70.5	57.2	111.6
Obstetrical procedures . . . . .	72–75	2,477.4	4,833.6
Episiotomy with or without forceps or vacuum extraction . . . . .	72.1,72.21,72.31,72.71,73.6	490.3	956.6
Artificial rupture of membranes . . . . .	73.0	276.3	539.0
Cesarean section . . . . .	74.0–74.2,74.4,74.99	316.3	617.2
Repair of current obstetric laceration . . . . .	75.5–75.6	401.9	784.1
Operations on the musculoskeletal system . . . . .	76–84	1,187.2	1,201.0
Partial excision of bone . . . . .	76.2–76.3,77.6–77.8	87.5	93.4
Open reduction of fracture with internal fixation . . . . .	79.3	163.5	193.5
Excision or destruction of intervertebral disc . . . . .	80.5	109.0	127.3
Total hip replacement . . . . .	81.51	52.2	44.3
Total knee replacement . . . . .	81.54	92.9	68.6
Operations on the integumentary system . . . . .	85–86	488.7	444.7
Mastectomy . . . . .	85.4	33.6	*
Debridement of wound, infection, or burn . . . . .	86.22,86.28	129.0	151.4
Skin graft . . . . .	86.6–86.7	35.1	40.7
Miscellaneous diagnostic and therapeutic procedures . . . . .	87–99	4,774.5	4,782.9
Computerized axial tomography . . . . .	87.03,87.41,87.71,88.01,88.38	377.0	383.2
Pyelogram . . . . .	87.73–87.75	58.3	65.1
Arteriography and angiography using contrast material . . . . .	88.4–88.5	744.0	905.1
Diagnostic ultrasound . . . . .	88.7	445.7	389.2
Circulatory monitoring . . . . .	89.6	127.8	130.3
Radioisotope scan . . . . .	92.0–92.1	112.9	98.2
Respiratory therapy . . . . .	93.9,96.7	411.2	430.3

... Category not applicable.

\* 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 29. Number of all-listed procedures for discharges from short-stay hospitals, by geographic region and procedure category: United States, 1996**

[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	North-east	Midwest	South	West
Number in thousands					
All procedures . . . . .	40,397	9,870	8,771	12,973	8,783
Operations on the nervous system . . . . .	01–05	937	222	217	290
Spinal tap . . . . .	03.31	310	65	74	92
Operations on the endocrine system . . . . .	06–07	101	31	17	31
Operations on the eye . . . . .	08–16	188	52	19	84
Operations on the ear . . . . .	18–20	58	21	*8	12
Operations on the nose, mouth, and pharynx . . . . .	21–29	323	106	52	100
Tonsillectomy with or without adenoidectomy . . . . .	28.2–28.3	36	19	*	10
Operations on the respiratory system . . . . .	30–34	1,038	270	217	343
Bronchoscopy with or without biopsy . . . . .	33.21–33.24,33.27	305	84	62	97
Operations on the cardiovascular system . . . . .	35–39	5,444	1,209	1,285	1,942
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . .	36.0	666	118	183	231
Coronary artery bypass graft <sup>1</sup> . . . . .	36.1	598	150	164	183
Cardiac catheterization . . . . .	37.21–37.23	1,161	236	273	470
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . .	37.7–37.8	341	84	66	140
Shunt or vascular bypass . . . . .	39.0–39.2	193	43	42	71
Hemodialysis . . . . .	39.95	413	86	69	152
Operations on the hemic and lymphatic system . . . . .	40–41	348	93	77	111
Operations on the digestive system . . . . .	42–54	4,976	1,135	1,182	1,729
Endoscopy of small intestine with or without biopsy . . . . .	45.11–45.14,45.16	841	187	201	309
Endoscopy of large intestine with or without biopsy . . . . .	45.21–45.25	490	115	117	183
Partial excision of large intestine . . . . .	45.7	226	52	61	78
Appendectomy, excluding incidental . . . . .	47.0	263	47	61	80
Cholecystectomy . . . . .	51.2	448	112	97	151
Repair of inguinal hernia . . . . .	53.0–53.1	77	27	13	24
Lysis of peritoneal adhesions . . . . .	54.5	338	66	85	134
Operations on the urinary system . . . . .	55–59	1,016	257	234	343
Cystoscopy with or without biopsy . . . . .	57.31–57.33	208	53	60	67
Operations on the male genital organs . . . . .	60–64	302	74	78	97
Prostatectomy . . . . .	60.2–60.6	203	45	55	66
Operations on the female genital organs . . . . .	65–71	2,096	358	418	875
Oophorectomy and salpingo-oophorectomy . . . . .	65.3–65.6	475	72	106	191
Bilateral destruction or occlusion of fallopian tubes . . . . .	66.2–66.3	342	43	51	170
Hysterectomy . . . . .	68.3–68.7,68.9	591	94	130	247
Dilation and curettage of uterus . . . . .	69.0	83	28	12	30
Repair of cystocele and rectocele . . . . .	70.5	151	23	33	61
Obstetrical procedures . . . . .	72–75	6,540	1,215	1,422	2,061
Episiotomy with or without forceps or vacuum extraction . . . . .	72.1,72.21,72.31,72.71,73.6	1,294	235	289	463
Artificial rupture of membranes . . . . .	33.0	729	120	187	185
Cesarean section . . . . .	74.0–74.2,74.4,74.99	835	139	159	332
Repair of current obstetric laceration . . . . .	75.5–75.6	1,061	183	237	326
Operations on the musculoskeletal system . . . . .	76–84	3,134	713	748	1,079
Partial excision of bone . . . . .	76.2–76.3,77.6–77.8	231	57	52	82
Open reduction of fracture with internal fixation . . . . .	79.3	432	92	104	157
Excision or destruction of intervertebral disc . . . . .	80.5	288	49	59	128
Total hip replacement . . . . .	81.51	138	29	42	40
Total knee replacement . . . . .	81.54	245	46	75	82
Operations on the integumentary system . . . . .	85–86	1,290	323	281	442
Mastectomy . . . . .	85.4	89	15	26	32
Debridement of wound, infection, or burn . . . . .	86.22,86.28	340	85	74	126
Skin graft . . . . .	86.6–86.7	93	25	19	33
Miscellaneous diagnostic and therapeutic procedures . . . . .	87–99	12,604	3,791	2,515	3,434
Computerized axial tomography . . . . .	87.03,87.41,87.71,88.01,88.38	995	334	150	232
Pyelogram . . . . .	87.73–87.75	154	39	30	54
Arteriography and angiography using contrast material . . . . .	88.4–88.5	1,964	403	487	777
Diagnostic ultrasound . . . . .	88.7	1,177	359	203	240
Circulatory monitoring . . . . .	89.6	337	96	76	71
Radioisotope scan . . . . .	92.0–92.1	298	109	42	52
Respiratory therapy . . . . .	93.9,96.7	1,085	309	215	281

\* 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, 1996**

[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	North-east	Midwest	South	West
Rate per 100,000 population					
All procedures . . . . .	15,302.0	19,158.4	14,150.6	14,044.0	15,111.0
Operations on the nervous system . . . . .	01-05	355.0	430.1	350.9	313.8
Spinal tap . . . . .	03.31	117.5	127.0	119.8	99.2
Operations on the endocrine system . . . . .	06-07	38.1	60.9	27.1	33.6
Operations on the eye . . . . .	08-16	71.3	100.5	30.9	91.1
Operations on the ear . . . . .	18-20	22.0	40.2	*12.8	13.3
Operations on the nose, mouth, and pharynx . . . . .	21-29	122.5	205.8	84.4	108.2
Tonsillectomy with or without adenoidectomy . . . . .	28.2-28.3	13.5	36.1	*	10.3
Operations on the respiratory system . . . . .	30-34	393.4	524.8	349.4	371.8
Bronchoscopy with or without biopsy . . . . .	33.21-33.24,33.27	115.6	162.9	100.5	104.8
Operations on the cardiovascular system . . . . .	35-39	2,062.0	2,347.4	2,073.4	2,102.5
Removal of coronary artery obstruction and insertion of stent(s) <sup>1</sup> . . . . .	36.0	252.4	229.2	295.5	249.6
Coronary artery bypass graft <sup>1</sup> . . . . .	36.1	226.6	291.6	264.5	198.2
Cardiac catheterization . . . . .	37.21-37.23	439.7	458.7	440.4	509.1
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . .	37.7-37.8	129.3	162.4	106.3	151.8
Shunt or vascular bypass . . . . .	39.0-39.2	73.0	83.7	67.2	77.3
Hemodialysis . . . . .	39.95	156.6	166.8	111.7	164.8
Operations on the hemic and lymphatic system . . . . .	40-41	131.7	181.4	124.8	119.8
Operations on the digestive system . . . . .	42-54	1,885.0	2,203.4	1,906.2	1,872.0
Endoscopy of small intestine with or without biopsy . . . . .	45.11-45.14,45.16	318.7	362.2	324.3	335.0
Endoscopy of large intestine with or without biopsy . . . . .	45.21-45.25	185.7	223.3	189.5	197.8
Partial excision of large intestine . . . . .	45.7	85.6	100.7	98.7	84.1
Appendectomy, excluding incidental . . . . .	47.0	99.4	91.3	98.4	86.4
Cholecystectomy . . . . .	51.2	169.8	217.5	156.5	163.5
Repair of inguinal hernia . . . . .	53.0-53.1	29.3	53.2	21.6	25.5
Lysis of peritoneal adhesions . . . . .	54.5	128.2	128.9	137.2	144.7
Operations on the urinary system . . . . .	55-59	385.0	498.0	378.0	371.2
Cystoscopy with or without biopsy . . . . .	57.31-57.33	78.7	103.4	97.0	72.8
Operations on the male genital organs . . . . .	60-64	114.3	143.4	125.3	105.1
Prostatectomy . . . . .	60.2-60.6	76.7	87.0	88.7	70.9
Operations on the female genital organs . . . . .	65-71	793.9	694.4	674.4	946.7
Oophorectomy and salpingo-oophorectomy . . . . .	65.3-65.6	180.0	138.9	170.5	206.8
Bilateral destruction or occlusion of fallopian tubes . . . . .	66.2-66.3	129.7	82.5	82.1	183.8
Hysterectomy . . . . .	68.3-68.7,68.9	223.8	183.3	209.4	267.9
Dilation and curettage of uterus . . . . .	69.0	31.4	53.5	19.6	32.9
Repair of cystocele and rectocele . . . . .	70.5	57.2	44.4	52.8	66.0
Obstetrical procedures . . . . .	72-75	2,477.4	2,359.1	2,294.3	2,231.6
Episiotomy with or without forceps or vacuum extraction . . . . .	72.1,72.21,72.31,72.71,73.6	490.3	456.1	466.3	501.1
Artificial rupture of membranes . . . . .	73.0	276.3	232.9	302.0	200.1
Cesarean section . . . . .	74.0-74.2,74.4,74.99	316.3	269.0	256.5	359.3
Repair of current obstetric laceration . . . . .	75.5-75.6	401.9	355.8	382.3	353.3
Operations on the musculoskeletal system . . . . .	76-84	1,187.2	1,383.7	1,207.1	1,167.7
Partial excision of bone . . . . .	76.2-76.3,77.6-77.8	87.5	111.1	83.8	89.2
Open reduction of fracture with internal fixation . . . . .	79.3	163.5	179.2	168.3	170.3
Excision or destruction of intervertebral disc . . . . .	80.5	109.0	95.5	95.2	138.8
Total hip replacement . . . . .	81.51	52.2	55.4	67.3	43.6
Total knee replacement . . . . .	81.54	92.9	88.4	121.1	89.0
Operations on the integumentary system . . . . .	85-86	488.7	626.1	453.8	478.2
Mastectomy . . . . .	85.4	33.6	29.9	42.0	34.5
Debridement of wound, infection, or burn . . . . .	86.22,86.28	129.0	164.2	119.9	136.0
Skin graft . . . . .	86.6-86.7	35.1	48.6	31.0	35.9
Miscellaneous diagnostic and therapeutic procedures . . . . .	87-99	4,774.5	7,359.2	4,057.7	3,717.5
Computerized axial tomography . . . . .	87.03,87.41,87.71,88.01,88.38	377.0	647.7	241.3	251.3
Pyelogram . . . . .	87.73-87.75	58.3	75.8	48.7	58.3
Arteriography and angiography using contrast material . . . . .	88.4-88.5	744.0	781.4	786.1	841.1
Diagnostic ultrasound . . . . .	88.7	445.7	697.3	328.3	259.9
Circulatory monitoring . . . . .	89.6	127.8	186.4	122.3	77.3
Radioisotope scan . . . . .	92.0-92.1	112.9	211.7	68.0	56.2
Respiratory therapy . . . . .	93.9,96.7	411.2	599.8	347.4	304.3

\* 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, 1996**

[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]

Type of delivery age and region	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>All deliveries</b>							
10–54 years . . . . .	3,830	100.0	44.9	8,367	100.0	98.2	2.2
10–19 years . . . . .	507	13.2	27.7	1,100	13.2	60.2	2.2
20–24 years . . . . .	904	23.6	106.3	1,905	22.8	224.0	2.1
25–29 years . . . . .	1,067	27.9	113.1	2,304	27.5	244.3	2.2
30–34 years . . . . .	885	23.1	82.9	1,960	23.4	183.5	2.2
35–39 years . . . . .	395	10.3	35.0	907	10.8	80.2	2.3
40–54 years . . . . .	72	1.9	2.7	191	2.3	7.1	2.7
All regions . . . . .	3,830	100.0	44.9	8,367	100.0	98.2	2.2
Northeast . . . . .	624	16.3	37.8	1,618	19.3	98.1	2.6
Midwest . . . . .	785	20.5	39.3	1,692	20.2	84.7	2.2
South . . . . .	1,384	36.1	46.1	3,073	36.7	102.4	2.2
West . . . . .	1,036	27.1	55.4	1,983	23.7	106.0	1.9
<b>Vaginal deliveries<sup>1</sup></b>							
10–54 years . . . . .	2,996	100.0	35.2	5,463	100.0	64.1	1.8
10–19 years . . . . .	427	14.3	23.4	808	14.8	44.2	1.9
20–24 years . . . . .	744	24.8	87.5	1,328	24.3	156.1	1.8
25–29 years . . . . .	831	27.7	88.1	1,502	27.5	159.2	1.8
30–34 years . . . . .	665	22.2	62.3	1,213	22.2	113.5	1.8
35–39 years . . . . .	281	9.4	24.8	519	9.5	45.9	1.8
40–54 years . . . . .	48	1.6	1.8	94	1.7	3.5	2.0
All regions . . . . .	2,996	100.0	35.2	5,463	100.0	64.1	1.8
Northeast . . . . .	487	16.3	29.5	1,068	19.5	64.7	2.2
Midwest . . . . .	626	20.9	31.3	1,142	20.9	57.1	1.8
South . . . . .	1,052	35.1	35.0	1,947	35.6	64.8	1.9
West . . . . .	830	27.7	44.4	1,306	23.9	69.8	1.6
<b>Cesarean deliveries<sup>2</sup></b>							
10–54 years . . . . .	834	100.0	9.8	2,905	100.0	34.1	3.5
10–19 years . . . . .	80	9.6	4.4	293	10.1	16.0	3.7
20–24 years . . . . .	160	19.2	18.9	577	19.9	67.8	3.6
25–29 years . . . . .	236	28.3	25.0	802	27.6	85.1	3.4
30–34 years . . . . .	220	26.4	20.6	748	25.7	70.0	3.4
35–39 years . . . . .	114	13.7	10.1	388	13.4	34.3	3.4
40–54 years . . . . .	24	2.8	0.9	97	3.3	3.6	4.1
All regions . . . . .	834	100.0	9.8	2,905	100.0	34.1	3.5
Northeast . . . . .	137	16.5	8.3	550	19.0	33.4	4.0
Midwest . . . . .	159	19.1	8.0	551	19.0	27.5	3.5
South . . . . .	332	39.8	11.1	1,126	38.8	37.5	3.4
West . . . . .	206	24.7	11.0	677	23.3	36.2	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: United States, selected years 1980–96**

[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]

	1980	1985	1990	1995	1996
Length of stay	Number in thousands				
All deliveries . . . . .	3,762	3,854	4,025	3,766	3,830
Less than 1 day . . . . .	23	34	37	36	34
1 day . . . . .	216	373	623	1,368	1,217
2 days . . . . .	747	1,037	1,649	1,418	1,557
3 days . . . . .	1,205	1,140	900	606	671
4 days . . . . .	691	586	468	193	202
5–7 days . . . . .	726	598	282	100	105
8 days or more . . . . .	154	86	67	46	43
Vaginal deliveries <sup>1</sup> . . . . .	3,143	2,977	3,080	2,981	2,996
Less than 1 day . . . . .	23	33	35	34	31
1 day . . . . .	215	371	620	1,362	1,212
2 days . . . . .	743	1,030	1,624	1,271	1,368
3 days . . . . .	1,185	1,054	618	228	293
4 days . . . . .	618	338	106	39	41
5–7 days . . . . .	317	125	55	27	31
8 days or more . . . . .	42	26	23	21	18
Cesarean deliveries <sup>2</sup> . . . . .	619	877	945	785	834
Less than 1 day . . . . .	*	*	*	*	*
1 day . . . . .	*	*	*	*6	*
2 days . . . . .	*	*7	25	147	189
3 days . . . . .	20	86	283	379	378
4 days . . . . .	73	249	361	154	160
5–7 days . . . . .	409	473	227	73	74
8 days or more . . . . .	112	60	44	25	25
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	0.9
1 day . . . . .	5.7	9.7	15.5	36.3	31.8
2 days . . . . .	19.9	26.9	41.0	37.7	40.7
3 days . . . . .	32.0	29.6	22.4	16.1	17.5
4 days . . . . .	18.4	15.2	11.6	5.1	5.3
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	1.1
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	1.0
1 day . . . . .	6.8	12.5	20.1	45.7	40.5
2 days . . . . .	23.6	34.6	52.7	42.6	45.7
3 days . . . . .	37.7	35.4	20.1	7.6	9.8
4 days . . . . .	19.7	11.4	3.4	1.3	1.4
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	0.6
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 . . . . .	*	*0.8	2.6	18.7	22.7
3 days . . . . .	3.2	9.8	29.9	48.3	45.3
4 days . . . . .	11.8	28.4	38.2	19.6	19.2
5–7 days . . . . .	66.1	53.9	24.0	9.3	8.8
8 days or more . . . . .	18.1	6.8	4.7	3.2	3.0
Type of delivery	Average length of stay in days				
All deliveries . . . . .	3.8	3.3	2.8	2.1	2.2
Vaginal deliveries <sup>1</sup> . . . . .	3.2	2.7	2.3	1.7	1.8
Cesarean deliveries <sup>2</sup> . . . . .	6.5	5.2	4.5	3.6	3.5

\* 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 1980–96**

[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	1996
Number of procedures in thousands					
All obstetrical procedures . . . . .	72–75	3,526	4,239	6,660	6,282
Episiotomy . . . . .	72.1,72.21,72.31,72.71,73.6	2,012	1,820	1,714	1,410
Forceps delivery <sup>1</sup> . . . . .	72.0–72.4,72.51,72.53,72.6,73.3	555	376	269	176
Vacuum extraction <sup>1</sup> . . . . .	72.7	22	66	190	279
Artificial rupture of membranes . . . . .	73.0	120	315	691	752
Medical induction of labor . . . . .	73.4	42	66	225	366
Manually assisted delivery . . . . .	73.5	70	193	750	866
Cesarean section . . . . .	74.0–74.2,74.4,74.99	619	877	945	785
Repair of current obstetric laceration . . . . .	75.5–75.6	350	543	789	961
Rate per 100 deliveries <sup>2</sup>					
All obstetrical procedures . . . . .	72–75	93.7	110.0	165.5	166.8
Artificial rupture of membranes . . . . .	73.0	3.2	8.2	17.2	20.0
Medical induction of labor . . . . .	73.4	1.1	1.7	5.6	9.7
Cesarean section . . . . .	74.0–74.2,74.4,74.99	16.5	22.7	23.5	20.8
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
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
Vacuum extraction <sup>1</sup> . . . . .	72.7	0.7	2.2	6.1	9.2
Manually assisted delivery . . . . .	73.5	2.2	6.5	24.3	29.0
Repair of current obstetric laceration . . . . .	75.5–75.6	11.1	18.1	25.5	32.0

<sup>1</sup>Vacuum extraction and forceps delivery 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 1980–96**

[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	1996
Number in thousands					
Females with deliveries . . . . .	3,762	3,854	4,025	3,766	3,830
Previous cesarean delivery . . . . .	192	324	426	413	458
No previous cesarean delivery . . . . .	3,571	3,530	3,600	3,353	3,372
Vaginal deliveries . . . . .	3,143	2,977	3,080	2,981	2,996
Vaginal births after cesarean delivery (VBAC) . . . . .	*6	21	87	147	154
Other vaginal deliveries . . . . .	3,137	2,956	2,993	2,835	2,842
Cesarean deliveries . . . . .	619	877	945	785	834
No previous cesarean delivery (primary) . . . . .	434	574	606	519	529
Previous cesarean delivery (repeat) . . . . .	185	303	339	266	304
Rate per 100 deliveries					
Cesarean deliveries per 100 deliveries . . . . .	16.5	22.7	23.5	20.8	21.8
Primary cesarean deliveries per 100 deliveries without previous cesarean delivery . . . . .	12.1	16.3	16.8	15.5	15.7
Repeat cesarean deliveries per 100 cesarean deliveries . . . . .	29.9	34.6	35.9	33.9	36.5
Vaginal births after cesarean delivery (VBAC) per 100 deliveries with previous cesarean delivery . . . . .	*3.4	6.6	20.4	35.5	33.6

\* 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, 1996**

[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 . . . . .	834	529	304	154
10–19 years . . . . .	80	74	*6	*
20–24 years . . . . .	160	108	53	30
25–29 years . . . . .	236	154	82	47
30–34 years . . . . .	220	125	95	47
35–39 years . . . . .	114	59	55	22
40–54 years . . . . .	24	11	13	*
All regions . . . . .	834	529	304	154
Northeast . . . . .	137	95	42	24
Midwest . . . . .	159	97	61	35
South . . . . .	332	208	124	56
West . . . . .	206	129	77	39
Rate per 100 deliveries				
10–54 years . . . . .	21.8	15.7	36.5	33.6
10–19 years . . . . .	15.7	14.8	*7.6	*
20–24 years . . . . .	17.7	13.1	32.9	35.9
25–29 years . . . . .	22.1	16.4	34.7	36.4
30–34 years . . . . .	24.9	16.8	43.2	33.2
35–39 years . . . . .	28.9	18.5	48.4	28.0
40–54 years . . . . .	32.9	19.2	55.6	*
All regions . . . . .	21.8	15.7	36.5	33.6
Northeast . . . . .	22.0	17.1	30.4	36.6
Midwest . . . . .	20.2	14.2	38.7	36.5
South . . . . .	24.0	17.2	37.5	31.0
West . . . . .	19.9	14.0	37.3	33.4

\* 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, 1996**

[Discharges of inpatients from non-Federal hospitals]

Sex, region, and health status	Discharges		
	Number in thousands	Percent distribution	Average length of stay in days
All newborn infants . . . . .	3,926	100.0	3.0
Sex			
Male . . . . .	1,999	50.9	3.0
Female . . . . .	1,927	49.1	2.9
Region			
Northeast . . . . .	645	16.4	3.5
Midwest . . . . .	826	21.0	2.7
South . . . . .	1,403	35.7	3.0
West . . . . .	1,051	26.8	2.7
Health status			
Well <sup>1</sup> . . . . .	2,436	62.1	1.8
Male . . . . .	1,183	30.1	1.8
Female . . . . .	1,253	31.9	1.8
Sick <sup>2</sup> . . . . .	1,490	37.9	4.9
Male . . . . .	816	20.8	4.9
Female . . . . .	674	17.2	5.0

<sup>1</sup>Without any illness or risk-related diagnoses.<sup>2</sup>With at least one illness or risk-related diagnosis, ICD-9-CM 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 1980-96**

[Discharges of inpatients from non-Federal hospitals]

Length of stay and health status	1980	1985	1990	1995	1996
Length of stay					
All newborn infants . . . . .	3,824	3,794	3,869	3,631	3,926
Less than 1 day . . . . .	69	84	79	87	74
1 day . . . . .	270	428	693	1,523	1,502
2 days . . . . .	842	1,057	1,624	1,145	1,407
3 days . . . . .	1,175	1,034	636	486	501
4 days . . . . .	618	528	447	134	152
5-7 days . . . . .	633	497	232	106	124
8 days or more . . . . .	218	167	157	149	166
Number in thousands					
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	1.9
1 day . . . . .	7.1	11.3	17.9	41.9	38.3
2 days . . . . .	22.0	27.9	42.0	31.5	35.8
3 days . . . . .	30.7	27.3	16.4	13.4	12.8
4 days . . . . .	16.2	13.9	11.6	3.7	3.9
5-7 days . . . . .	16.5	13.1	6.0	2.9	3.2
8 days or more . . . . .	5.7	4.4	4.1	4.1	4.2
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	1.9
1 day . . . . .	7.1	11.3	17.9	41.9	38.3
2 days . . . . .	22.0	27.9	42.0	31.5	35.8
3 days . . . . .	30.7	27.3	16.4	13.4	12.8
4 days . . . . .	16.2	13.9	11.6	3.7	3.9
5-7 days . . . . .	16.5	13.1	6.0	2.9	3.2
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	3.0
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	4.9

<sup>1</sup>Without any illness or risk-related diagnosis.<sup>2</sup>With at least one illness or risk-related diagnosis, ICD-9-CM 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, 1996**

[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). Data are for newborn infants with at least one of ICD-9-CM codes 001-999]

Diagnostic category and ICD-9-CM code		Both sexes	Male	Female
Sick newborn diagnoses . . . . .	001-999	2,813	1,567	1,246
Congenital anomalies . . . . .	740-759	252	144	109
Disorders relating to short gestation and unspecified low birthweight (prematurity) . . . . .	765	277	150	127
Disorders relating to long gestation and high birthweight . . . . .	766	216	131	85
Birth trauma . . . . .	767	159	91	69
Injuries to scalp . . . . .	767.1	94	54	40
Respiratory distress syndrome and other respiratory conditions of fetus and newborn . . . . .	769-770	383	228	155
Transitory tachypnea of newborn . . . . .	770.6	116	72	44
Infections specific to the perinatal period . . . . .	771	111	58	52
Hemolytic disease of fetus or newborn, due to isoimmunization, and other perinatal jaundice . . . . .	773-774	473	249	224
Neonatal jaundice associated with preterm delivery . . . . .	774.2	118	65	52
Unspecified fetal and neonatal jaundice . . . . .	774.6	279	148	132
Endocrine and metabolic disturbances specific to the fetus and newborn . . . . .	775	127	72	55

# Appendix

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## Technical Notes

### Abstract Form

[Figure 1](#) shows the medical abstract form used for the 1996 NHDS. The hospital or facility number, medical record number, date of birth, and patient ZIP Code are confidential information and are not released to the public.

### Surgical and Nonsurgical Procedures

The procedures classified as nonsurgical in this report are listed in [table I](#) by code numbers from the *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD-9-CM) (16). All other procedures are considered surgical procedures.

### Population Estimates

The population estimates used to compute rates, shown in [table II](#), are for the U.S. civilian population, including institutionalized persons, as of July 1, 1996. These estimates were provided by the U.S. Bureau of the Census and are consistent with estimates in Population Division Release PPL #57. Population estimates are shown for four geographic regions.

#### 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

**Table I. Code numbers for procedures considered nonsurgical in the National Hospital Discharge Survey by ICD-9-CM category, 1996**

[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      73.4,73.51–73.59,73.91–73.92,75.31–75.32, 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

West Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, California, Hawaii, and Alaska

### Reliability of Estimates

The statistics presented in this report are based on a sample survey, 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 (18).

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 III](#). 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 III](#). 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

**CONFIDENTIAL** - All information which would permit identification of an individual or of an establishment will be held confidential, will be used only by persons engaged in and for the purposes of the survey, and will not be disclosed or released to other persons or used for any other purpose.

FORM HDS-1  
(3-11-96)U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
U.S. PUBLIC HEALTH SERVICE  
CENTERS FOR DISEASE CONTROL  
NATIONAL CENTER FOR HEALTH STATISTICS**MEDICAL ABSTRACT - NATIONAL HOSPITAL DISCHARGE SURVEY**

<b>A. PATIENT IDENTIFICATION</b>		Month	Day	Year
1. Hospital number .....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2. HDS number .....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Medical record number .....				
<b>B. PATIENT CHARACTERISTICS</b>		8. Age (Complete only if date of birth not given) .....		
7. Date of birth    Month    Day    Year		Units    { 1 <input type="checkbox"/> Years 2 <input type="checkbox"/> Months 3 <input type="checkbox"/> Days}		
9. Sex (Mark (X) one)		1 <input type="checkbox"/> Male	2 <input type="checkbox"/> Female	3 <input type="checkbox"/> Not stated
10. Race		1 <input type="checkbox"/> White	3 <input type="checkbox"/> American Indian/Eskimo/Aleut	5 <input type="checkbox"/> Other (Specify) .....
		2 <input type="checkbox"/> Black	4 <input type="checkbox"/> Asian/Pacific Islander	6 <input type="checkbox"/> Not stated
11. Ethnicity (Mark (X) one)		1 <input type="checkbox"/> Hispanic origin	2 <input type="checkbox"/> Non-Hispanic	3 <input type="checkbox"/> Not stated
12. Marital status (Mark (X) one)		1 <input type="checkbox"/> Married	3 <input type="checkbox"/> Widowed	5 <input type="checkbox"/> Separated
		2 <input type="checkbox"/> Single	4 <input type="checkbox"/> Divorced	6 <input type="checkbox"/> Not stated
13. Expected source(s) of payment		Principal (Mark one only)	Other additional sources (Mark accordingly)	14. StatusDisposition of patient (Mark (X) appropriate box(es))
Government sources		1. Worker's compensation .....	<input type="checkbox"/>	1 <input type="checkbox"/> Alive → a. <input type="checkbox"/> Routine discharge/discharged home
		2. Medicare .....	<input type="checkbox"/>	b. <input type="checkbox"/> Left against medical advice
		3. Medicaid .....	<input type="checkbox"/>	c. <input type="checkbox"/> Discharged, transferred to another short-term hospital
		4. Title V .....	<input type="checkbox"/>	d. <input type="checkbox"/> Discharged, transferred to long-term care institution
		5. Other government payments .....	<input type="checkbox"/>	e. <input type="checkbox"/> Other disposition/not stated
Private sources		6. Blue Cross .....	<input type="checkbox"/>	
		7. Other private or commercial insurance .....	<input type="checkbox"/>	
Other sources		8. Self pay .....	<input type="checkbox"/>	
		9. No charge .....	<input type="checkbox"/>	
		10. Other (Specify) .....	<input type="checkbox"/>	
<input type="checkbox"/> No source of payment indicated		2 <input type="checkbox"/> Died 3 <input type="checkbox"/> Status not stated		
<b>C. FINAL DIAGNOSES (including E-code diagnoses)</b>				
Optional - ICD-9-CM Nos.				
Principal:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other/additional:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> See reverse side for additional diagnoses				
<b>D. SURGICAL AND DIAGNOSTIC PROCEDURES</b>				
Date				
Month Day Year				
Principal:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other/additional:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> NONE <input type="checkbox"/> See reverse side for additional procedures				
Completed by			Date	

**Table II. Civilian population by selected characteristics: United States, 1996**

[Population estimates consistent with Population Division Release PPL #57, U.S. Bureau of the Census]

Age and geographic region	Both sexes	Male	Female
Population in thousands			
All ages			
Total	263,998	128,691	135,306
Region:			
Northeast	51,520	24,867	26,653
Midwest	61,983	30,212	31,771
South	92,373	44,718	47,655
West	58,122	28,895	29,228
Under 15 years			
Total	57,708	29,549	28,159
Under 1 year	3,769	1,928	1,841
1–4 years	15,516	7,940	7,577
5–14 years	38,422	19,681	18,741
Region:			
Northeast	10,606	5,433	5,173
Midwest	13,445	6,888	6,557
South	20,097	10,280	9,817
West	13,561	6,949	6,612
15–44 years			
Total	118,734	59,292	59,442
15–24 years	35,739	18,206	17,533
25–34 years	39,868	19,754	20,114
35–44 years	43,127	21,332	21,795
Region:			
Northeast	22,835	11,362	11,473
Midwest	27,798	13,901	13,898
South	41,417	20,460	20,957
West	26,684	13,570	13,114
45–64 years			
Total	53,694	25,969	27,725
45–64 years	32,334	15,804	16,530
55–64 years	21,360	10,165	11,195
Region:			
Northeast	10,763	5,150	5,613
Midwest	12,612	6,125	6,488
South	19,036	9,140	9,896
West	11,283	5,554	5,729
65 years and over			
Total	33,861	13,881	19,980
65–74 years	18,669	8,325	10,345
75–84 years	11,430	4,486	6,944
85 years and over	3,762	1,070	2,692
Region:			
Northeast	7,316	2,922	4,394
Midwest	8,128	3,299	4,829
South	11,824	4,838	6,985
West	6,594	2,822	3,772

approximating the RSE( $X$ ). The values for  $b$  are given in [table III](#). When multiplied by 100, 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 (19,20).

The approximate RSE of a population-based rate is equivalent to the approximate RSE of the numerator, 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, is calculated using the formula:

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

When multiplied by 100, the 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 (19,20).

**Table III. Estimated parameters for approximate relative standard error equations for National Hospital Discharge Survey statistics by selected characteristics, 1996**

Characteristic	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 . . . . .	0.00135	355.278	0.00315	340.624	0.00422	961.321	0.00265	367.004
Sex								
Male . . . . .	0.00153	328.232	0.00412	323.367	0.00594	1,104.936	0.00347	330.761
Female . . . . .	0.00157	384.999	0.00174	322.104	0.00226	1,341.036	0.00278	331.207
Age								
Under 15 years . . . . .	0.01700	229.443	0.01958	289.646	0.02006	722.724	0.01858	236.345
15–44 years . . . . .	0.00158	322.959	0.00265	328.234	0.00317	997.933	0.00398	298.470
45–64 years . . . . .	0.00147	321.327	0.00235	302.405	0.00323	1,186.155	0.00373	293.436
65 years and over . . . . .	0.00157	340.854	0.00196	309.446	0.00296	1,593.926	0.00252	277.559
Region								
Northeast . . . . .	0.00437	213.840	0.01157	277.233	0.00778	632.459	0.00668	234.728
Midwest . . . . .	0.01253	384.988	0.00819	183.086	0.00783	701.464	0.00821	154.838
South . . . . .	0.00358	350.427	0.00388	306.111	0.00671	923.876	0.00441	270.511
West . . . . .	0.00519	389.105	0.00822	420.446	0.01139	1,093.364	0.00829	369.526

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For answers to questions about this report or for a list of reports published in these series, contact:

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