

## 2000 National Hospital Discharge Survey

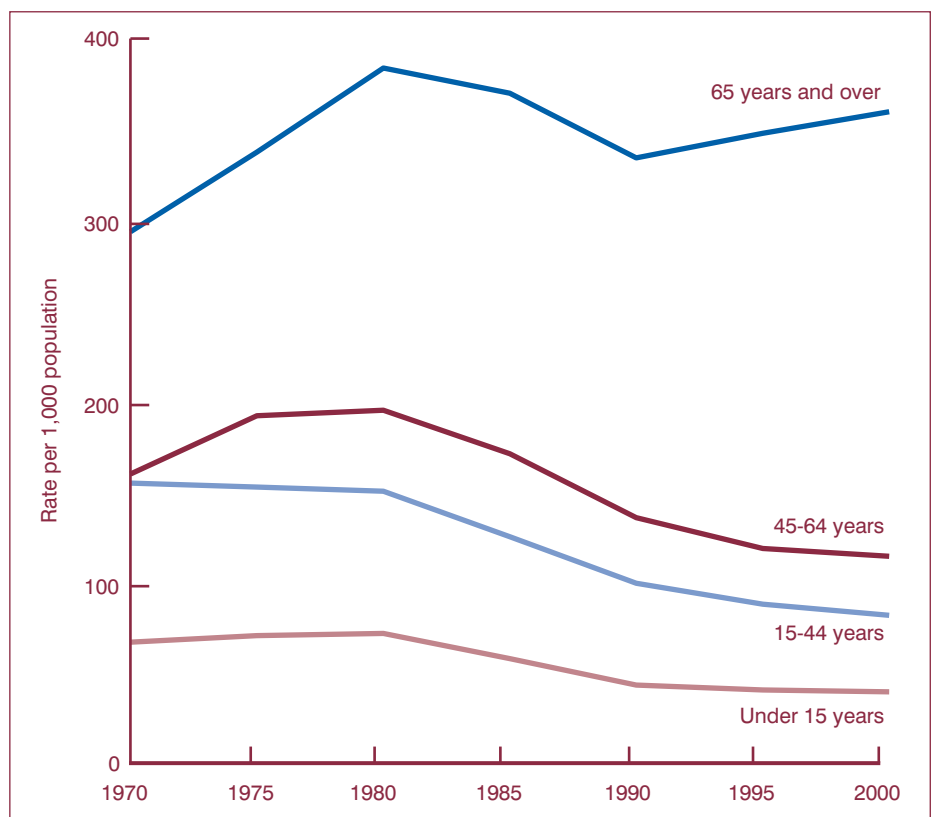
By Margaret J. Hall, Ph.D., and Maria F. Owings, Ph.D., Division of Health Care Statistics

This report presents the most current nationally representative data on inpatient care in the United States. Data are from the National Hospital Discharge Survey (NHDS), the longest continuously running nationally representative survey of hospital utilization.

The figure on the right presents data on the hospitalization rate for four age groups over the past 30 years. The rate of hospitalization for the elderly (those 65 years and over) increased by 23 percent over the entire period, despite a decrease during the 1980s. The rates for the other age groups declined overall, especially during the 1980s. Many advances in medical care (including cardiovascular interventions and drug therapies) occurred during this time, which may have decreased death rates but could also have resulted in a heightened risk of hospitalization for the elderly. The elderly comprised 20 percent of the hospital discharges and used a third of the days of care in 1970; in the year 2000 they made up close to 40 percent of the discharges and used almost one-half of the hospital days.

This report presents information about hospital utilization during 2000 as well as trend data for selected variables.

**Keywords:** inpatients • diagnoses • procedures • ICD-9-CM



Trends in the rate of hospitalization by age, United States 1970–2000

Additional information about hospital utilization is available from the National Center for Health Statistics (NCHS) Web site: <http://www.cdc.gov/nchs/>

Individual-year public-use data files are available for download from the Web site, and a multi-year public-use data file for trend analysis is available on CD-ROM. These and other products can also be obtained by contacting the NCHS Data Dissemination Branch at 301.458.INFO or by email at [NCHSquery@cdc.gov](mailto:NCHSquery@cdc.gov).

### Acknowledgments

This report was prepared in the Division of Health Care Statistics. Sagina Wahi in the Hospital Care Statistics Branch verified the data. Rong Cai, of the OAO Corporation, was contracted to produce estimated parameters for relative standard error equations; she also performed the computer programming for the report. This report was edited by Gail V. Johnson and typeset by Annette F. Holman of the Publications Branch, Division of Data Services.

## Abstract

**Objectives**—This report presents national estimates of the use of non-Federal short-stay hospitals in the United States during 2000. Numbers and rates of discharges, diagnoses, and procedures are shown by age and sex. Discharges are also shown by geographic region of hospital. Average lengths of stay are presented for all discharges and for selected diagnostic categories by age and by sex. Trend data for selected variables are also provided.

**Methods**—The estimates are based on medical abstract data collected through the National Hospital Discharge Survey for 2000. The survey has been conducted annually by the National Center for Health Statistics since 1965. Diagnoses and procedures presented are coded according to the *International Classification of Diseases, 9th Revision, Clinical Modification*, or ICD-9-CM.

**Results**—Trends in the utilization of non-Federal short-stay hospitals show that the rate of hospitalization of the elderly (those 65 years of age and over) increased over the entire period from 1970 to 2000, despite a decrease in the 1980s. The rates for the other age groups declined overall. In 2000, there were an estimated 31.7 million discharges of inpatients, excluding newborn infants, from non-Federal short-stay hospitals in the United States. The discharge rate was 1,140.1 per 10,000 population and the average length of stay was 4.9 days. There were 40 million procedures performed on hospital inpatients during 2000. Males had more cardiovascular procedures than females (3.4 million versus 2.5 million), while females had more operations on the digestive system than males (3.0 million versus 2.2 million). About one-quarter of all procedures performed on females were obstetrical.

## Introduction

This report presents data from the 2000 National Hospital Discharge Survey (NHDS). The survey has been conducted continuously by the National Center for Health Statistics (NCHS) since 1965. National estimates of hospital use derived from NHDS are published for each calendar year by

NCHS. This report provides an overview of the 2000 data, including the number and rate of discharges and average lengths of stay by the age and sex of patients and by geographic region of the hospital. Average lengths of stay are also presented for selected diagnostic categories. Estimates for the number and rate of selected procedures performed on hospital inpatients are shown by age and sex. More detailed data from the NHDS are published in Series 13 of *Vital and Health Statistics*, which includes two reports on trends in hospital use (1,2).

NHDS is the principal source for national data on the characteristics of patients discharged from non-Federal short-stay hospitals. Data from NHDS are used to examine important topics of interest in public health and health services research (3-19), and for a variety of activities by governmental, scientific, academic, and commercial institutions.

Estimates of the number of procedures shown in this report are for inpatients only. Data on ambulatory surgery are available from the National Survey of Ambulatory Surgery (NSAS), also conducted by NCHS. NSAS was conducted from 1994 through 1996 and covers hospital-based and freestanding ambulatory surgery centers. Data from the 3 years of this survey have been published (20-25).

Information on ambulatory procedures is also collected in two other NCHS surveys. The National Ambulatory Medical Care Survey obtains information on procedures ordered or performed during visits to physicians' offices (26). The National Hospital Ambulatory Medical Care Survey collects data on procedures ordered or performed during visits to hospital outpatient and emergency departments (27,28).

## Highlights

### Patient and hospital characteristics

- Trends in the utilization of non-Federal short-stay hospitals show that the rate of hospitalization of the elderly (those 65 years of age and

over) increased over the entire period from 1970 to 2000, despite a decrease during the 1980s. For the other age groups the rates declined overall, especially during the 1980s.

- In the most recent decade, from 1990 to 2000, the discharge rate among persons 65 years of age and over increased 8 percent. During this period, the rate among the 15-44 year-olds decreased by 18 percent and the discharge rate among persons 45-64 years of age decreased by 16 percent. The rate for children under 15 years of age did not change significantly (figure 1).
- In 2000, there were an estimated 31.7 million discharges of inpatients, excluding newborn infants, from non-Federal short-stay hospitals in the United States (table 1).
- The discharge rate was 1,140.1 per 10,000 population and the average length of stay was 4.9 days in 2000.
- The discharge rate per 10,000 population was 920.2 for males and 1,350.5 for females (table 6). Males had an average length of stay of 5.3 days compared with 4.6 days for females (table 7).
- Persons 65 years of age and over accounted for 39.1 percent of all discharges.
- The discharge rate per 10,000 population ranged from 1,354.9 in the Northeast region to 853.7 in the West. The average length of stay ranged from 5.7 days in the Northeast region to 4.5 days in the Midwest and the West.

## Diagnoses

- Over one-half of all first-listed diagnoses were in four ICD-9-CM chapters: diseases of the circulatory system, supplementary classifications (including females with deliveries), diseases of the respiratory system, and diseases of the digestive system (table 2).
- Six diagnostic categories each accounted for more than a million discharges. These were heart disease (4.4 million), delivery (3.7 million), pneumonia (1.3 million), malignant neoplasms (1.2 million), psychoses (1.4 million), and fractures (1.0

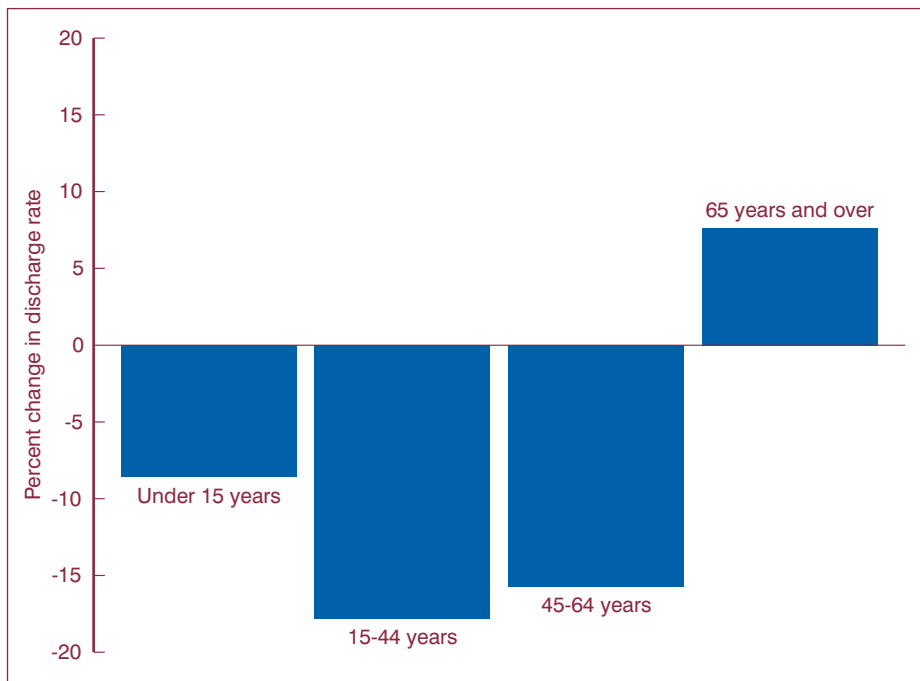


Figure 1. Percent change in discharge rate by age: United States, 1990–2000

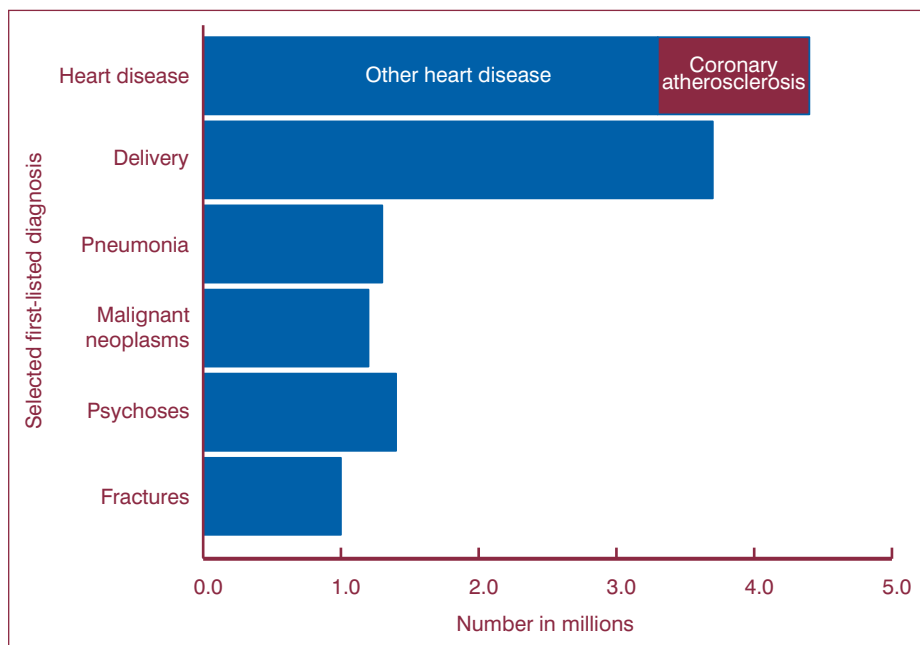


Figure 2. Number of selected first-listed diagnoses for hospital discharges: United States, 2000

million). Coronary atherosclerosis accounted for 1.1 million discharges and over 25 percent of all heart disease diagnoses (figure 2).

- The average length of stay was 2.5 days for delivery, 4.7 days for heart disease, 5.8 days for fractures, 5.9 days for pneumonia, 6.7 days for malignant neoplasms, and 8.1 days for psychoses (table 4 and figure 3).

- For persons 65 years of age and over, there were 827.8 discharges per 10,000 population with a first-listed diagnosis of heart disease (table 3).
- The number and rate of coronary atherosclerosis diagnoses more than doubled during the 1990s. Among persons 65 years of age and over, the increases in the number and rate were particularly dramatic (figure 4).

- Nearly one-fifth of female discharges were for childbirth (table 5).

### Procedures

- During 2000, 40 million procedures were performed on hospital inpatients (table 8). Nationally, the rate of procedures was 1,437.7 per 10,000 population (table 9). For males, this rate was 1,151.1 and for females it was 1,711.8 (table 11) per 10,000 population.
- Almost three-fourths of all procedures were in four ICD–9–CM chapters: miscellaneous diagnostic and therapeutic procedures, obstetrical procedures, operations on the cardiovascular system, and operations on the digestive system (figure 5).
- About one-quarter of all procedures performed on women were obstetrical (table 10).
- Males had more cardiovascular procedures than females (3.4 million versus 2.5 million), while females had more operations on the digestive system than males (3.0 million versus 2.2 million).
- Frequent procedures for males were arteriography and angiocardiology, cardiac catheterization, removal of coronary artery obstruction and insertion of stent(s), respiratory therapy, endoscopy of small intestine, diagnostic ultrasound, and coronary artery bypass graft.
- Frequent procedures for females were repair of current obstetric laceration, episiotomy, cesarean section, arteriography and angiocardiology, artificial rupture of membranes, hysterectomy, and endoscopy of small intestine.

### Methods

#### Data source

NHDS collects data from a sample of inpatient records acquired from a national sample of hospitals. Since persons with multiple discharges during the year may be sampled more than once, estimates are 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 are included

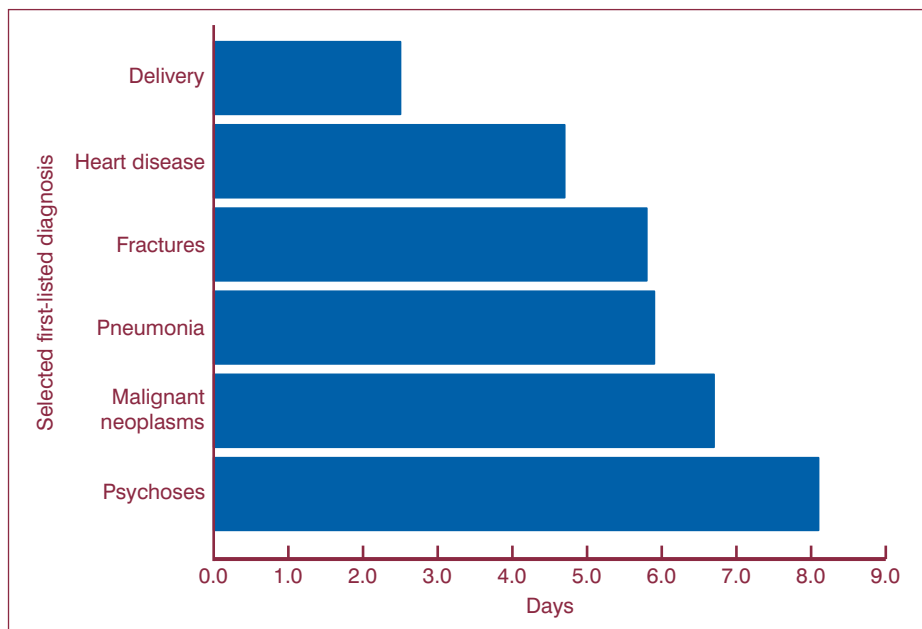


Figure 3. Average length of hospital stay for discharges with selected first-listed diagnoses: United States, 2000

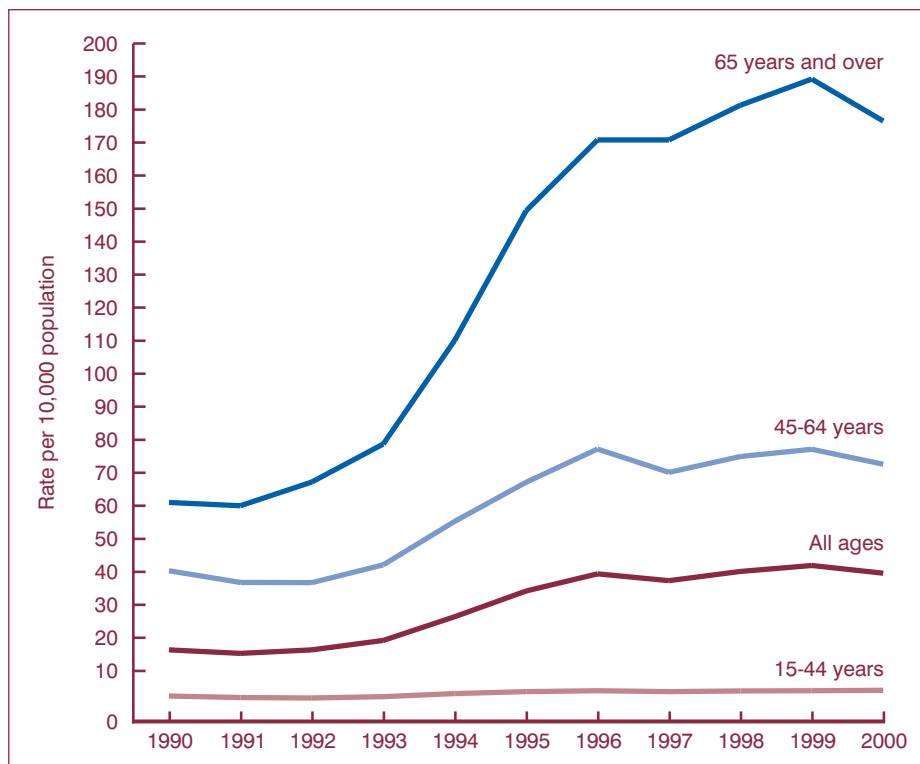


Figure 4. Rate of discharges for coronary atherosclerosis by age group, 1990–2000

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, are excluded.

Prior to 1988, NHDS utilized a two-stage design, but in 1988, the survey was redesigned (29). Under the

1988 design, the largest hospitals were included in the sample with certainty, while the remaining sample of hospitals was based on a stratified three-stage design. The first stage consisted of a selection of 112 primary sampling units (PSUs) that comprised a probability sample of PSUs used in the 1985–94 National Health Interview Survey (30).

The second stage consisted of a selection of noncertainty hospitals from the sampled PSUs. At the third stage, a sample of discharges within hospitals was selected by a systematic random sampling technique. The sampling frame for hospitals drawn under the new design has been the SMG Hospital Market Database (31).

For 2000, the sample consisted of 509 hospitals, of which 28 were found to be out-of-scope (ineligible) because they had gone out of business or otherwise failed to meet the criteria for the NHDS universe. Of the 481 in-scope (eligible) hospitals, 434 responded to the survey. Data were collected for approximately 313,000 discharges from the 434 responding hospitals.

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

The other data collection procedure was an automated system, in which NCHS purchased machine-readable medical record data from commercial organizations, State data systems, hospitals, or hospital associations. Records from these sources were systematically sampled by NCHS. In 2000, approximately 40 percent of respondent hospitals provided data through the automated system. A detailed report on the design and operation of the NHDS has been published (29).

The medical abstract form and the automated data contain items that relate to the personal characteristics of the patient. These items include 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 includes up to seven diagnoses, as many as four surgical and nonsurgical operations and procedures, and dates of surgery. (The medical record number, date of birth,

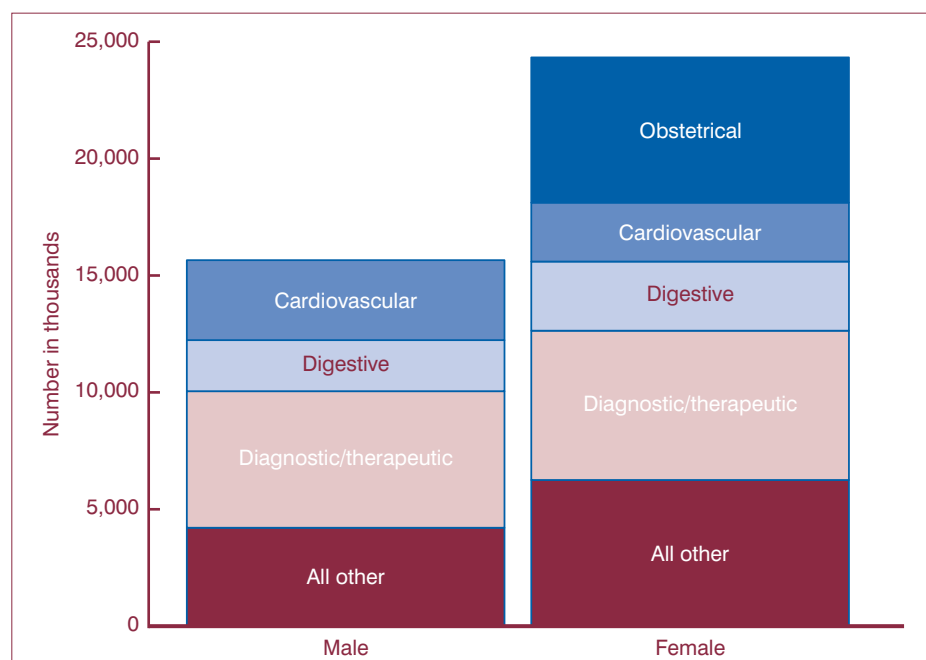


Figure 5. Number of all-listed inpatient procedures by sex: United States, 2000

and ZIP Code are confidential information not available to the public). Medical data are coded according to the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*(32).

For the manual data collection, an ongoing quality control program was undertaken on the coding and entering of data from abstracts to machine readable form. Approximately 10 percent of the abstracts are independently recoded by an NHDS coder, with discrepancies resolved by the chief coder. The overall error rate for records manually coded for the 2000 data year was 0.6 percent for medical (ICD-9-CM) coding and keying and 0.2 percent for demographic coding and keying.

## Estimation

Because of the complex multistage design of NHDS, the survey data must be inflated or weighted in order to produce national estimates. The estimation procedure produces essentially unbiased national estimates and has three basic components:

1. Inflation by reciprocals of the probabilities of sample selection,
2. Adjustment for nonresponse, and
3. Population weighting ratio adjustments.

These three components of the final weight are described in more detail in another report (29).

The standard error is primarily a measure of sampling variability that occurs by chance because only a sample rather than the entire universe is surveyed. Estimates of the sampling variability for this report were calculated with SUDAAN software, which takes into account the complex sample design. A description of the software and the approach it uses has been published (33). The standard errors of statistics presented in this report are included in each of the tables.

## Use of tables

Discharges are reported by first-listed diagnosis. This is the principal diagnosis if it is specified on the medical record. If the principal diagnosis is not specified, the diagnosis listed first on the face sheet or discharge summary of the medical record is used. Estimates of procedures include surgical or nonsurgical operations, diagnostic procedures, and special treatments reported on the medical record. Up to four procedures were coded for each discharge. All-listed procedures include all occurrences of the procedure coded

regardless of the order on the medical record. Definitions of the terms used in this report have been published (29).

The diagnoses and procedures appear in separate tables of this report, presented by chapter of ICD-9-CM. Within these chapters, subcategories of diagnoses or procedures are shown. These specific categories were selected primarily because of their large estimates or because they are of special interest. Although diagnoses assigned ICD-9-CM codes E800-E999 (Supplementary classification of external causes of injury and poisoning) were included in NHDS, these diagnoses were excluded from this report. Data for newborn infants, defined as patients admitted to a hospital by birth, were also excluded from this report.

Because of low reliability, estimates with a relative standard error of more than 30 percent or that are based on a sample of fewer than 30 records are replaced by asterisks (\*). Estimates based on 30-59 patient records are preceded by an asterisk to indicate that they also have low reliability.

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

Rates were computed using estimates of the civilian population of the United States as of July 1, 2000, based on the 1990 census. The data are from unpublished tabulations provided by the U.S. Census Bureau. These estimates have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix. Population estimates for the civilian population from the 2000 census were not available when this report was prepared.

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

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

## References

- Pokras R, Kozak LJ, McCarthy E, Graves EJ. Trends in hospital utilization: United States, 1965–86. National Center for Health Statistics. Vital Health Stat 13(101). 1989.
- Gillum BS, Graves EJ, Kozak LJ. Trends in hospital utilization: United States, 1988–92. National Center for Health Statistics. Vital Health Stat 13(124). 1996. [http://www.cdc.gov/nchs/data/sr13\\_124.pdf](http://www.cdc.gov/nchs/data/sr13_124.pdf)
- Fang J, Alderman MH. Trend of stroke hospitalization, United States, 1988–97. Stroke 32(10):2221–25. 2001.
- Weeks JD, Kozak LJ. Trends in the use of episiotomy in the United States: 1980–98. Birth 28(3):152–160. 2001.
- Saraiya M, Lee NC, Blackman D, et al. Self-reported Papanicolaou smears and hysterectomies among women in the United States. Obstet Gynecol 98(2):269–78. 2001.
- Counihan ME, Shay DK, Holman RC, et al. Human parainfluenza virus-associated hospitalizations among children less than five years of age in the United States. J Pediatric Infectious Disease 20(7):646–53. 2001.
- Hodgson TA, Cai L. Medical care expenditures for hypertension, its complications, and its comorbidities. Med Care 39(6):599–615. 2001.
- Kozak LJ, Hall MJ, Owings MF. Trends in avoidable hospitalizations, 1980–98. Health Aff 20(2):225–32. 2001.
- Lubitz J, Greenberg LG, Gorina Y, et al. Three decades of health care use by the elderly, 1965–98. Health Aff 20(2):19–32. 2001.
- Heidenreich PA, McClellan M. Trends in treatment and outcomes for acute myocardial infarction: 1975–1995. Am J Med 110(3):165–74. 2001.
- Heller JA, Weinberg A, Arons R, et al. Two decades of abdominal aortic aneurysm repair: Have we made any progress? J Vasc Surg 32(6):1091–1101. 2000.
- Shi L, Lu N. Individual sociodemographic characteristics associated with hospitalization for pediatric ambulatory care sensitive conditions. J Health Care Poor Underserved 11(4):373–84. 2000.
- Weiss KB, Sullivan SD, Lyttle CS. Trends in the cost of illness for asthma in the United States, 1985–94. J Allergy Clin Immunol 106(3):493–9. 2000.
- Wingo PA, Guest JL, McGinnis L, et al. Patterns of inpatient surgeries for the top four cancers in the United States. National Hospital Discharge Survey, 1988–95. Cancer Causes Control 11(6):497–512. 2000.
- Nicholson WK, Frick KD, Powe NR. Economic burden of hospitalizations for preterm labor in the United States. Obstet Gynecol 96(1):95–101. 2000.
- Curtin SC, Kozak LJ, Gregory KD. U.S. cesarean and VBAC rates stalled in the mid-1990s. Birth 27(1):54–7. 2000.
- Kozak LJ, McCarthy E, Pokras R. Changing patterns of surgical care in the United States, 1980–1995. Health Care Financing Rev 21(1):31–49. 1999.
- Xia Z, Roberts RO, Schottenfeld D, et al. Trends in prostatectomy for benign prostatic hyperplasia among black and white men in the United States: 1980–1994. Urology 53(6):1154–9. 1999.
- Pappas G, Hadden WC, Kozak LJ, Fisher G. Potentially avoidable hospitalizations: Inequalities between U.S. socioeconomic groups. Am J Public Health 87(5):811–6. 1997.
- Kozak LJ, Hall MJ, Pokras R, Lawrence L. Ambulatory surgery in the United States, 1994. Advance data from vital and health statistics; no 283. Hyattsville, Maryland: National Center for Health Statistics. 1997. <http://www.cdc.gov/nchs/data/ad/ad283.pdf>
- Hall MJ, Lawrence L. Ambulatory surgery in the United States, 1995. Advance data from vital and health statistics; no 296. Hyattsville, Maryland: National Center for Health Statistics. 1997. <http://www.cdc.gov/nchs/data/ad/ad296.pdf>
- Hall MJ, Lawrence L. Ambulatory surgery in the United States, 1996. Advance data from vital and health statistics; no 300. Hyattsville, Maryland: National Center for Health Statistics. 1998. <http://www.cdc.gov/nchs/data/ad/ad300.pdf>
- Pokras R, Kozak LJ, McCarthy E. Ambulatory and inpatient procedures in the United States, 1994. National Center for Health Statistics. Vital Health Stat 13(132). 1997. [http://www.cdc.gov/nchs/data/sr13\\_132.pdf](http://www.cdc.gov/nchs/data/sr13_132.pdf)
- Kozak LJ, Owings MF. Ambulatory and inpatient procedures in the United States, 1995. National Center for Health Statistics. Vital Health Stat 13(135). 1998. [http://www.cdc.gov/nchs/data/sr13\\_135.pdf](http://www.cdc.gov/nchs/data/sr13_135.pdf)
- Owings MF, Kozak LJ. Ambulatory and inpatient procedures in the United States, 1996. National Center for Health Statistics. Vital Health Stat 13(139). 1998. [http://www.cdc.gov/nchs/data/sr13\\_139.pdf](http://www.cdc.gov/nchs/data/sr13_139.pdf)
- Cherry DK, Burt CW, Woodwell DA. National Ambulatory Medical Care Survey: 1999 summary. Advance data from vital and health statistics; no 322. Hyattsville, Maryland: National Center for Health Statistics. 2001. <http://www.cdc.gov/nchs/data/ad/ad322.pdf>
- Ly N, McCaig LF, Burt CW. National Hospital Ambulatory Medical Care Survey: 1999 outpatient department summary. Advance data from vital and health statistics; no 321. Hyattsville, Maryland: National Center for Health Statistics. 2001. <http://www.cdc.gov/nchs/data/ad/ad321.pdf>
- McCaig LF, Burt CW. National Hospital Ambulatory Medical Care Survey: 1999 emergency department

- summary. Advance data from vital and health statistics; no 320. Hyattsville, Maryland: National Center for Health Statistics. 2001. <http://www.cdc.gov/nchs/data/ad/ad320.pdf>
29. Dennison CF, Pokras R. Design and Operation of the National Hospital Discharge Survey: 1988 Redesign. National Center for Health Statistics. Vital and Health Stat 1(39). 2000. [http://www.cdc.gov/nchs/data/series/sr\\_01/sr1\\_39.pdf](http://www.cdc.gov/nchs/data/series/sr_01/sr1_39.pdf)
30. Massey JT, Moore TF, Parsons VL, Tadros W. Design and estimation for the National Health Interview Survey, 1985–94. National Center for Health Statistics. Vital Health Stat 2(110). 1989.
31. SMG Marketing Group, Inc. Hospital Market Database. Chicago: Healthcare Information Specialists. April 1987, April 1991, April 1994, April 1997, and April 2000.
32. International Classification of Diseases, 9th Revision, Clinical Modification, 6th edition. U.S. Department of Health and Human Services, National Center for Health Statistics, Health Care Financing Administration. Washington: Public Health Service. 1998.
33. Shah BV, Barnwell BG, and Bieler GS. SUDAAN User's Manual, Release 7.0. Research Triangle Institute: Research Triangle Park, North Carolina: 1996.

**Table 1. Number, rate, and average length of stay for discharges from short-stay hospitals by age, region, and sex: United States, 2000**

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

Selected characteristic	Both sexes		Male		Female	
	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>
			Number in thousands			
Total . . . . .	31,706	1,218	12,514	541	19,192	703
Age						
Under 15 years . . . . .	2,383	328	1,333	187	1,050	142
15–44 years . . . . .	9,969	405	2,680	161	7,289	281
45–64 years . . . . .	6,958	290	3,424	153	3,534	145
65 years and over . . . . .	12,396	555	5,077	234	7,319	329
Region						
Northeast . . . . .	7,103	705	2,979	324	4,123	386
Midwest . . . . .	7,207	623	2,857	280	4,351	352
South . . . . .	12,016	689	4,621	286	7,395	421
West . . . . .	5,380	363	2,057	168	3,323	218
			Rate per 10,000 population			
Total . . . . .	1,140.1	43.8	920.2	39.7	1,350.5	49.5
Age						
Under 15 years . . . . .	393.9	54.2	430.8	60.6	355.2	48.2
15–44 years . . . . .	815.9	33.2	438.7	26.3	1,192.9	45.9
45–64 years . . . . .	1,141.7	47.6	1,158.0	51.7	1,126.3	46.3
65 years and over . . . . .	3,595.5	161.1	3,528.3	162.8	3,643.7	163.8
Region						
Northeast . . . . .	1,354.9	134.4	1,173.5	127.7	1,525.3	142.7
Midwest . . . . .	1,128.3	97.6	915.3	89.7	1,331.8	107.6
South . . . . .	1,216.4	69.8	964.2	59.6	1,454.0	82.7
West . . . . .	853.7	57.6	653.8	53.4	1,053.1	69.1
			Average length of stay in days			
Total . . . . .	4.9	0.1	5.3	0.1	4.6	0.1
Age						
Under 15 years . . . . .	4.5	0.2	4.7	0.3	4.3	0.2
15–44 years . . . . .	3.7	0.1	4.9	0.2	3.2	0.1
45–64 years . . . . .	5.0	0.1	5.1	0.1	4.8	0.1
65 years and over . . . . .	6.0	0.1	5.9	0.1	6.0	0.1
Region						
Northeast . . . . .	5.7	0.2	6.0	0.3	5.4	0.2
Midwest . . . . .	4.5	0.1	4.8	0.1	4.3	0.1
South . . . . .	4.9	0.1	5.3	0.1	4.6	0.1
West . . . . .	4.5	0.2	5.2	0.2	4.1	0.1

<sup>1</sup>SE is standard error.



**Table 2. Number of discharges from short-stay hospitals by first-listed diagnosis and age: United States, 2000**[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	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>
	Number in thousands									
All conditions . . . . .	31,706	1,218	2,383	328	9,969	405	6,958	290	12,396	555
Infectious and parasitic diseases . . . . . 001-139	787	42	160	26	173	12	150	10	305	18
Septicemia . . . . . .038	326	20	16	3	32	5	62	6	216	14
Neoplasms . . . . . 140-239	1,587	70	37	11	289	14	566	26	695	38
Malignant neoplasms . . . . . 140-208,230-234	1,156	54	27	8	120	8	393	19	617	33
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	159	10	*	*	*7	*2	49	4	103	8
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	139	9	*	*	8	2	43	4	87	7
Malignant neoplasm of breast . . . . . 174-175,198.81	108	8	*	*	12	2	40	4	56	6
Benign neoplasms . . . . . 210-229	390	20	*	*	163	10	161	11	58	5
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	1,455	62	152	21	289	17	381	19	634	30
Diabetes mellitus . . . . . .250	557	26	22	5	136	10	207	12	192	11
Volume depletion . . . . . 276.5	485	29	111	16	54	7	59	6	261	17
Diseases of the blood and blood-forming organs . . . . . 280-289	392	27	70	13	91	8	83	8	149	15
Mental disorders . . . . . 290-319	2,147	341	103	25	1,255	233	495	74	293	28
Psychoses . . . . . 290-299	1,445	243	*	*	803	160	343	55	244	25
Alcohol dependence syndrome . . . . . .303	146	34	*	*	92	23	49	12	6	1
Diseases of the nervous system and sense organs . . . . . 320-389	471	31	84	16	112	10	109	9	167	13
Diseases of the circulatory system . . . . . 390-459	6,294	286	30	6	389	19	1,813	89	4,062	191
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	4,385	211	16	4	244	13	1,271	68	2,854	140
Acute myocardial infarction . . . . . .410	781	44	*	*	38	4	242	15	499	30
Coronary atherosclerosis . . . . . 414.0	1,102	77	*	*	50	5	442	33	609	43
Other ischemic heart disease . . . . . 411-413,414.1-414.9	283	27	*	*	21	3	105	9	157	19
Cardiac dysrhythmias . . . . . .427	716	36	8	2	43	4	157	10	508	27
Congestive heart failure . . . . . 428.0	999	47	*	*	35	4	195	15	767	37
Cerebrovascular disease . . . . . 430-438	981	46	*	*	37	4	229	14	711	36
Diseases of the respiratory system . . . . . 460-519	3,444	159	699	95	394	19	648	32	1,703	86
Acute bronchitis and bronchiolitis . . . . . .466	285	34	201	33	13	2	19	3	52	5
Pneumonia . . . . . 480-486	1,282	60	173	20	128	9	218	12	763	44
Chronic bronchitis . . . . . .491	495	32	*	*	18	4	147	13	328	21
Asthma . . . . . .493	465	38	203	33	111	9	84	6	68	7
Diseases of the digestive system . . . . . 520-579	3,143	124	217	30	758	32	852	41	1,317	59
Appendicitis . . . . . 540-543	273	18	68	9	145	11	43	5	16	3
Noninfectious enteritis and colitis . . . . . 555-558	277	14	49	7	81	6	56	5	91	7
Diverticula of intestine . . . . . .562	264	15	*	*	30	4	70	6	164	10
Cholelithiasis . . . . . .574	344	18	*	*	108	7	107	9	127	10
Diseases of the genitourinary system . . . . . 580-629	1,743	80	83	14	574	29	436	23	650	36
Calculus of kidney and ureter . . . . . .592	177	15	*	*	80	7	62	7	31	4
Complications of pregnancy, childbirth, and the puerperium <sup>2</sup> . . . . . 630-677	504	29	*	*	503	29	*	*	...	...
Diseases of the skin and subcutaneous tissue . . . . . 680-709	514	40	*	*	132	12	133	9	179	11
Cellulitis and abscess . . . . . 681-682	353	18	28	5	96	8	106	8	124	8
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	1,530	92	37	7	322	24	497	29	674	47
Osteoarthritis and allied disorders . . . . . .715	441	35	*	*	13	2	125	11	303	27
Intervertebral disc disorders . . . . . .722	329	22	*	*	140	12	132	12	56	5
Congenital anomalies . . . . . 740-759	165	29	113	25	33	6	11	2	9	2
Certain conditions originating in the perinatal period . . . . . 760-779	156	28	155	28	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions . . . . . 780-799	267	17	56	8	93	8	74	7	44	6
Injury and poisoning . . . . . 800-999	2,466	112	228	33	712	39	514	27	1,012	53
Fractures, all sites <sup>3</sup> . . . . . 800-829	982	56	74	12	223	17	164	12	521	33
Fracture of neck of femur <sup>3</sup> . . . . . .820	321	23	*	*	*6	*1	24	3	290	21
Poisonings . . . . . 960-989	192	12	21	4	108	7	39	4	25	3
Supplementary classifications . . . . . V01-V82	4,640	191	89	16	3,851	166	196	16	505	58
Females with deliveries . . . . . V27	3,738	166	12	2	3,722	165	*3	*1	...	...

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

... Category not applicable.

<sup>1</sup>SE is standard error.<sup>2</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>3</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 3. Rate of discharges from short-stay hospitals by age and first-listed diagnosis: United States, 2000**[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	SE <sup>1</sup>	Rate	SE <sup>1</sup>	Rate	SE <sup>1</sup>	Rate	SE <sup>1</sup>	Rate	SE <sup>1</sup>
	Rate per 10,000 population									
All conditions . . . . .	1,140.1	43.8	393.9	54.2	815.9	33.2	1,141.7	47.6	3,595.5	161.1
Infectious and parasitic diseases . . . . . 001-139	28.3	1.5	26.5	4.4	14.1	1.0	24.6	1.7	88.3	5.2
Septicemia . . . . . 038	11.7	0.7	2.6	0.5	2.6	0.4	10.1	1.0	62.7	4.2
Neoplasms . . . . . 140-239	57.1	2.5	6.1	1.8	23.7	1.1	92.9	4.3	201.7	10.9
Malignant neoplasms . . . . . 140-208,230-234	41.6	1.9	4.5	1.3	9.8	0.6	64.4	3.2	178.8	9.6
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	5.7	0.3	*	*	*0.6	*0.1	8.0	0.7	29.8	2.2
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	5.0	0.3	*	*	0.6	0.1	7.0	0.6	25.1	2.0
Malignant neoplasm of breast . . . . . 174-175,198.81	3.9	0.3	*	*	1.0	0.1	6.6	0.6	16.2	1.8
Benign neoplasms . . . . . 210-229	14.0	0.7	*	*	13.3	0.8	26.5	1.8	16.9	1.6
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	52.3	2.2	25.1	3.4	23.6	1.4	62.4	3.1	183.8	8.7
Diabetes mellitus . . . . . 250	20.0	0.9	3.7	0.8	11.1	0.8	33.9	2.0	55.7	3.3
Volume depletion . . . . . 276.5	17.4	1.1	18.3	2.6	4.4	0.6	9.6	1.0	75.8	5.0
Diseases of the blood and blood-forming organs . . . . . 280-289	14.1	1.0	11.5	2.2	7.4	0.7	13.6	1.3	43.1	4.2
Mental disorders . . . . . 290-319	77.2	12.3	17.0	4.1	102.7	19.1	81.3	12.1	85.1	8.1
Psychoses . . . . . 290-299	52.0	8.8	*	*	65.7	13.1	56.3	9.0	70.7	7.4
Alcohol dependence syndrome . . . . . 303	5.3	1.2	*	*	7.5	1.9	8.0	1.9	1.6	0.3
Diseases of the nervous system and sense organs . . . . . 320-389	16.9	1.1	13.9	2.7	9.1	0.8	17.9	1.5	48.3	3.7
Diseases of the circulatory system . . . . . 390-459	226.3	10.3	5.0	1.1	31.8	1.6	297.5	14.6	1,178.3	55.5
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	157.7	7.6	2.6	0.6	20.0	1.1	208.6	11.1	827.8	40.6
Acute myocardial infarction . . . . . 410	28.1	1.6	*	*	3.1	0.3	39.7	2.5	144.9	8.8
Coronary atherosclerosis . . . . . 414.0	39.6	2.8	*	*	4.1	0.4	72.6	5.5	176.5	12.5
Other ischemic heart disease . . . . . 411-413,414.1-414.9	10.2	1.0	*	*	1.8	0.2	17.2	1.4	45.5	5.6
Cardiac dysrhythmias . . . . . 427	25.7	1.3	1.3	0.3	3.5	0.4	25.7	1.7	147.3	7.8
Congestive heart failure . . . . . 428.0	35.9	1.7	*	*	2.9	0.3	32.0	2.4	222.4	10.8
Cerebrovascular disease . . . . . 430-438	35.3	1.7	*	*	3.0	0.3	37.6	2.3	206.3	10.3
Diseases of the respiratory system . . . . . 460-519	123.8	5.7	115.6	15.8	32.2	1.6	106.3	5.2	493.8	24.9
Acute bronchitis and bronchiolitis . . . . . 466	10.3	1.2	33.3	5.5	1.1	0.2	3.1	0.5	15.2	1.6
Pneumonia . . . . . 480-486	46.1	2.2	28.6	3.3	10.5	0.7	35.8	2.0	221.2	12.6
Chronic bronchitis . . . . . 491	17.8	1.2	*	*	1.5	0.3	24.2	2.2	95.2	6.2
Asthma . . . . . 493	16.7	1.4	33.6	5.4	9.1	0.7	13.7	1.0	19.6	2.0
Diseases of the digestive system . . . . . 520-579	113.0	4.5	35.8	4.9	62.0	2.7	139.8	6.7	381.9	17.2
Appendicitis . . . . . 540-543	9.8	0.7	11.3	1.4	11.9	0.9	7.1	0.8	4.7	0.8
Noninfectious enteritis and colitis . . . . . 555-558	10.0	0.5	8.0	1.2	6.6	0.5	9.2	0.7	26.5	2.0
Diverticula of intestine . . . . . 562	9.5	0.5	*	*	2.5	0.3	11.4	1.0	47.7	2.9
Cholelithiasis . . . . . 574	12.4	0.7	*	*	8.8	0.6	17.5	1.5	36.9	2.9
Diseases of the genitourinary system . . . . . 580-629	62.7	2.9	13.7	2.3	47.0	2.4	71.5	3.8	188.6	10.4
Calculus of kidney and ureter . . . . . 592	6.3	0.5	*	*	6.6	0.6	10.1	1.1	9.1	1.3
Complications of pregnancy, childbirth, and the puerperium <sup>2</sup> . . . . . 630-677	18.1	1.0	*	*	41.1	2.4	*	*	...	...
Diseases of the skin and subcutaneous tissue . . . . . 680-709	18.5	1.5	*	*	10.8	1.0	21.8	1.4	51.9	3.0
Cellulitis and abscess . . . . . 681-682	12.7	0.6	4.6	0.8	7.9	0.7	17.4	1.3	35.8	2.3
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	55.0	3.3	6.2	1.2	26.3	2.0	81.6	4.7	195.4	13.5
Osteoarthritis and allied disorders . . . . . 715	15.9	1.3	*	*	1.1	0.2	20.5	1.8	87.9	7.8
Intervertebral disc disorders . . . . . 722	11.8	0.8	*	*	11.4	1.0	21.7	1.9	16.3	1.6
Congenital anomalies . . . . . 740-759	5.9	1.0	18.7	4.2	2.7	0.5	1.8	0.3	2.6	0.6
Certain conditions originating in the perinatal period . . . . . 760-779	5.6	1.0	25.6	4.6	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions . . . . . 780-799	9.6	0.6	9.3	1.4	7.6	0.6	12.1	1.1	12.8	1.6
Injury and poisoning . . . . . 800-999	88.7	4.0	37.7	5.5	58.3	3.2	84.4	4.4	293.5	15.4
Fractures, all sites <sup>3</sup> . . . . . 800-829	35.3	2.0	12.3	2.0	18.3	1.4	26.8	2.0	151.2	9.5
Fracture of neck of femur <sup>3</sup> . . . . . 820	11.6	0.8	*	*	*0.5	*0.1	3.9	0.6	84.0	6.1
Poisonings . . . . . 960-989	6.9	0.4	3.4	0.6	8.8	0.6	6.5	0.7	7.2	1.0
Supplementary classifications . . . . . V01-V82	166.8	6.9	14.6	2.6	315.1	13.6	32.2	2.6	146.3	16.8
Females with deliveries . . . . . V27	134.4	6.0	2.0	0.3	304.6	13.5	*0.5	*0.1	...	...

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

... Category not applicable.

<sup>1</sup>SE is standard error of rate.<sup>2</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>3</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 4. Average length of stay for discharges from short-stay hospitals by age and first-listed diagnosis: United States, 2000**[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	
	ALOS <sup>1</sup>	SE <sup>2</sup>	ALOS <sup>1</sup>	SE <sup>2</sup>	ALOS <sup>1</sup>	SE <sup>2</sup>	ALOS <sup>1</sup>	SE <sup>2</sup>	ALOS <sup>1</sup>	SE <sup>2</sup>
All conditions . . . . .	4.9	0.1	4.5	0.2	3.7	0.1	5.0	0.1	6.0	0.1
Infectious and parasitic diseases . . . . . 001-139	6.3	0.2	3.3	0.2	6.6	0.5	6.5	0.3	7.5	0.3
Septicemia . . . . . 038	8.0	0.3	5.5	0.9	9.6	1.4	8.3	0.6	7.8	0.3
Neoplasms . . . . . 140-239	5.8	0.1	6.5	0.6	4.2	0.2	5.3	0.2	7.0	0.2
Malignant neoplasms . . . . . 140-208,230-234	6.7	0.1	7.6	0.7	6.4	0.4	6.2	0.2	7.2	0.2
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	8.6	0.3	*	*	*7.2	*0.9	7.4	0.4	9.2	0.4
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	6.7	0.2	*	*	7.3	1.3	6.2	0.3	6.9	0.3
Malignant neoplasm of breast . . . . . 174-175,198.81	2.9	0.5	*	*	2.3	0.2	2.1	0.1	3.7	0.9
Benign neoplasms . . . . . 210-229	3.2	0.1	3.0	0.5	2.5	0.1	3.1	0.1	5.2	0.3
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	4.5	0.1	2.8	0.2	3.6	0.1	4.8	0.2	5.1	0.2
Diabetes mellitus . . . . . 250	5.2	0.2	3.1	0.2	3.8	0.2	5.6	0.3	5.9	0.3
Volume depletion . . . . . 276.5	4.0	0.2	2.2	0.1	3.1	0.2	3.8	0.3	5.0	0.2
Diseases of the blood and blood-forming organs . . . . . 280-289	4.4	0.2	4.0	0.2	4.7	0.2	4.5	0.3	4.5	0.3
Mental disorders . . . . . 290-319	7.3	0.4	12.4	2.8	6.5	0.3	7.5	0.4	8.8	0.4
Psychoses . . . . . 290-299	8.1	0.4	11.5	3.3	7.3	0.4	8.3	0.4	9.6	0.4
Alcohol dependence syndrome . . . . . 303	5.7	0.5	*	*	5.8	0.6	5.7	0.6	4.6	0.8
Diseases of the nervous system and sense organs . . . . . 320-389	4.8	0.2	3.9	0.2	4.5	0.3	4.3	0.3	5.7	0.3
Diseases of the circulatory system . . . . . 390-459	4.8	0.1	5.6	0.9	3.9	0.1	4.2	0.1	5.2	0.1
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	4.7	0.1	5.4	1.0	3.6	0.1	3.9	0.1	5.1	0.1
Acute myocardial infarction . . . . . 410	5.7	0.1	*	*	3.8	0.2	4.8	0.2	6.2	0.2
Coronary atherosclerosis . . . . . 414.0	3.9	0.1	*	*	2.9	0.2	3.3	0.1	4.4	0.2
Other ischemic heart disease . . . . . 411-413,414.1-414.9	2.7	0.1	*	*	2.1	0.3	2.3	0.1	3.1	0.1
Cardiac dysrhythmias . . . . . 427	3.7	0.1	3.5	0.6	2.4	0.2	2.9	0.1	4.1	0.1
Congestive heart failure . . . . . 428.0	5.5	0.1	*	*	4.4	0.4	4.9	0.3	5.6	0.2
Cerebrovascular disease . . . . . 430-438	5.4	0.2	*	*	6.4	0.9	5.3	0.3	5.3	0.2
Diseases of the respiratory system . . . . . 460-519	5.4	0.1	3.3	0.3	4.5	0.2	5.6	0.1	6.4	0.1
Acute bronchitis and bronchiolitis . . . . . 466	3.4	0.1	3.1	0.2	3.8	0.4	3.0	0.2	4.8	0.3
Pneumonia . . . . . 480-486	5.9	0.1	3.4	0.2	5.3	0.4	5.9	0.2	6.5	0.2
Chronic bronchitis . . . . . 491	5.2	0.2	*	*	4.6	0.7	5.1	0.3	5.2	0.2
Asthma . . . . . 493	3.0	0.1	2.2	0.1	2.9	0.1	3.9	0.2	4.9	0.3
Diseases of the digestive system . . . . . 520-579	4.7	0.1	3.3	0.2	3.8	0.1	4.7	0.1	5.5	0.1
Appendicitis . . . . . 540-543	3.3	0.2	3.0	0.2	3.1	0.3	3.6	0.3	5.1	0.5
Noninfectious enteritis and colitis . . . . . 555-558	4.6	0.2	2.3	0.2	4.5	0.4	4.7	0.4	5.8	0.4
Diverticula of intestine . . . . . 562	5.5	0.2	*	*	4.4	0.4	4.8	0.2	6.0	0.3
Cholelithiasis . . . . . 574	3.8	0.1	*	*	2.9	0.2	3.4	0.2	5.0	0.2
Diseases of the genitourinary system . . . . . 580-629	3.8	0.1	3.3	0.2	2.9	0.2	3.4	0.1	4.8	0.1
Calculus of kidney and ureter . . . . . 592	2.4	0.2	*	*	2.0	0.1	2.7	0.5	2.8	0.2
Complications of pregnancy, childbirth, and the puerperium <sup>3</sup> . . . . . 630-677	2.5	0.1	*	*	2.5	0.1	*	*	...	...
Diseases of the skin and subcutaneous tissue . . . . . 680-709	5.5	0.2	3.1	0.1	4.4	0.3	6.0	0.4	7.0	0.3
Cellulitis and abscess . . . . . 681-682	5.3	0.2	3.2	0.3	4.1	0.2	5.4	0.3	6.5	0.3
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	4.1	0.1	4.4	0.3	3.0	0.1	3.8	0.1	4.9	0.1
Osteoarthritis and allied disorders . . . . . 715	4.5	0.1	*	*	3.7	0.2	4.1	0.1	4.7	0.2
Intervertebral disc disorders . . . . . 722	3.0	0.1	*	*	2.3	0.1	2.8	0.2	4.9	0.6
Congenital anomalies . . . . . 740-759	5.7	0.6	6.4	0.7	3.9	0.5	4.7	1.0	5.0	0.9
Certain conditions originating in the perinatal period . . . . . 760-779	10.1	0.8	10.2	0.8	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions . . . . . 780-799	2.4	0.1	2.1	0.1	1.9	0.1	2.1	0.2	4.2	0.5
Injury and poisoning . . . . . 800-999	5.4	0.2	4.1	0.5	4.4	0.2	5.5	0.2	6.4	0.3
Fractures, all sites <sup>4</sup> . . . . . 800-829	5.8	0.2	3.1	0.3	4.8	0.4	5.6	0.4	6.6	0.4
Fracture of neck of femur <sup>4</sup> . . . . . 820	7.0	0.3	*	*	*5.1	*0.8	6.3	0.5	7.1	0.3
Poisonings . . . . . 960-989	2.9	0.3	1.8	0.2	2.5	0.2	3.0	0.3	*	*
Supplementary classifications . . . . . V01-V82	3.9	0.2	5.5	0.9	2.6	0.0	8.5	0.5	11.6	0.4
Females with deliveries . . . . . V27	2.5	0.0	2.4	0.2	2.5	0.0	*2.9	*0.3	...	...

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

... Category not applicable.

<sup>1</sup>ALOS is average length of stay.<sup>2</sup>SE is standard error of average length of stay.<sup>3</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>4</sup>Excludes fractures coded as 733.1, pathological fracture.

**Table 5. Number of discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 2000**[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	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>
			Number in thousands			
All conditions . . . . .	31,706	1,218	12,514	541	19,192	703
Infectious and parasitic diseases . . . . . 001-139	787	42	389	24	398	22
Septicemia . . . . . 038	326	20	154	12	172	11
Neoplasms . . . . . 140-239	1,587	70	586	30	1,002	43
Malignant neoplasms . . . . . 140-208,230-234	1,156	54	528	28	629	31
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	159	10	80	6	79	6
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	139	9	72	5	66	6
Malignant neoplasm of breast . . . . . 174-175,198.81	108	8	*	*	108	8
Benign neoplasms . . . . . 210-229	390	20	40	4	350	19
Endocrine, nutritional and metabolic diseases, and immunity disorders . . . . . 240-279	1,455	62	625	31	830	36
Diabetes mellitus . . . . . 250	557	26	279	15	278	16
Volume depletion . . . . . 276.5	485	29	206	16	279	16
Diseases of the blood and blood-forming organs . . . . . 280-289	392	27	163	14	229	17
Mental disorders . . . . . 290-319	2,147	341	1,104	181	1,043	162
Psychoses . . . . . 290-299	1,445	243	712	128	733	117
Alcohol dependence syndrome . . . . . 303	146	34	107	25	40	10
Diseases of the nervous system and sense organs . . . . . 320-389	471	31	196	15	275	19
Diseases of the circulatory system . . . . . 390-459	6,294	286	3,115	147	3,179	144
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	4,385	211	2,243	114	2,142	102
Acute myocardial infarction . . . . . 410	781	44	453	28	328	19
Coronary atherosclerosis . . . . . 414.0	1,102	77	676	47	425	32
Other ischemic heart disease . . . . . 411-413,414.1-414.9	283	27	145	12	139	17
Cardiac dysrhythmias . . . . . 427	716	36	336	18	380	22
Congestive heart failure . . . . . 428.0	999	47	418	23	581	28
Cerebrovascular disease . . . . . 430-438	981	46	428	22	553	28
Diseases of the respiratory system . . . . . 460-519	3,444	159	1,603	83	1,841	82
Acute bronchitis and bronchiolitis . . . . . 466	285	34	145	19	140	18
Pneumonia . . . . . 480-486	1,282	60	583	28	699	37
Chronic bronchitis . . . . . 491	495	32	215	15	280	20
Asthma . . . . . 493	465	38	198	24	267	18
Diseases of the digestive system . . . . . 520-579	3,143	124	1,376	59	1,767	74
Appendicitis . . . . . 540-543	273	18	156	11	117	9
Noninfectious enteritis and colitis . . . . . 555-558	277	14	105	8	172	11
Diverticula of intestine . . . . . 562	264	15	105	8	159	10
Cholelithiasis . . . . . 574	344	18	111	9	233	13
Diseases of the genitourinary system . . . . . 580-629	1,743	80	533	33	1,211	53
Calculus of kidney and ureter . . . . . 592	177	15	104	9	73	8
Complications of pregnancy, childbirth, and the puerperium <sup>2</sup> . . . . . 630-677	504	29	...	...	504	29
Diseases of the skin and subcutaneous tissue . . . . . 680-709	514	40	259	21	255	21
Cellulitis and abscess . . . . . 681-682	353	18	184	11	169	10
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	1,530	92	666	41	865	54
Osteoarthritis and allied disorders . . . . . 715	441	35	175	15	267	21
Intervertebral disc disorders . . . . . 722	329	22	175	12	154	12
Congenital anomalies . . . . . 740-759	165	29	94	17	71	13
Certain conditions originating in the perinatal period . . . . . 760-779	156	28	86	16	69	12
Symptoms, signs, and ill-defined conditions . . . . . 780-799	267	17	127	10	139	10
Injury and poisoning . . . . . 800-999	2,466	112	1,214	57	1,252	61
Fractures, all sites <sup>3</sup> . . . . . 800-829	982	56	413	25	569	36
Fracture of neck of femur <sup>3</sup> . . . . . 820	321	23	81	7	240	19
Poisonings . . . . . 960-989	192	12	72	6	120	9
Supplementary classifications . . . . . V01-V82	4,640	191	378	32	4,261	178
Females with deliveries . . . . . V27	3,738	166	...	...	3,738	166

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

... Category not applicable.

<sup>1</sup>SE is standard error.<sup>2</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>3</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 6. Rate of discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 2000**[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	SE <sup>1</sup>	Rate	SE <sup>1</sup>	Rate	SE <sup>1</sup>
	Rate per 10,000 population					
All conditions . . . . .	1,140.1	43.8	920.2	39.7	1,350.5	49.5
Infectious and parasitic diseases . . . . . 001-139	28.3	1.5	28.6	1.7	28.0	1.6
Septicemia . . . . . 038	11.7	0.7	11.3	0.9	12.1	0.8
Neoplasms. . . . . 140-239	57.1	2.5	43.1	2.2	70.5	3.0
Malignant neoplasms . . . . . 140-208,230-234	41.6	1.9	38.8	2.0	44.2	2.2
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	5.7	0.3	5.9	0.5	5.5	0.4
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	5.0	0.3	5.3	0.4	4.7	0.4
Malignant neoplasm of breast . . . . . 174-175,198.81	3.9	0.3	*	*	7.6	0.6
Benign neoplasms. . . . . 210-229	14.0	0.7	2.9	0.3	24.6	1.3
Endocrine, nutritional and metabolic diseases, and immunity disorders. . . . . 240-279	52.3	2.2	46.0	2.3	58.4	2.5
Diabetes mellitus . . . . . 250	20.0	0.9	20.5	1.1	19.6	1.1
Volume depletion . . . . . 276.5	17.4	1.1	15.2	1.2	19.6	1.1
Diseases of the blood and blood-forming organs . . . . . 280-289	14.1	1.0	12.0	1.0	16.1	1.2
Mental disorders . . . . . 290-319	77.2	12.3	81.2	13.3	73.4	11.4
Psychoses . . . . . 290-299	52.0	8.8	52.4	9.4	51.6	8.3
Alcohol dependence syndrome . . . . . 303	5.3	1.2	7.8	1.8	2.8	0.7
Diseases of the nervous system and sense organs. . . . . 320-389	16.9	1.1	14.4	1.1	19.4	1.3
Diseases of the circulatory system . . . . . 390-459	226.3	10.3	229.1	10.8	223.7	10.1
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	157.7	7.6	165.0	8.4	150.7	7.2
Acute myocardial infarction . . . . . 410	28.1	1.6	33.3	2.1	23.1	1.4
Coronary atherosclerosis . . . . . 414.0	39.6	2.8	49.7	3.5	29.9	2.3
Other ischemic heart disease . . . . . 411-413,414.1-414.9	10.2	1.0	10.6	0.9	9.8	1.2
Cardiac dysrhythmias . . . . . 427	25.7	1.3	24.7	1.3	26.8	1.5
Congestive heart failure . . . . . 428.0	35.9	1.7	30.7	1.7	40.9	1.9
Cerebrovascular disease. . . . . 430-438	35.3	1.7	31.5	1.6	38.9	2.0
Diseases of the respiratory system . . . . . 460-519	123.8	5.7	117.9	6.1	129.5	5.8
Acute bronchitis and bronchiolitis . . . . . 466	10.3	1.2	10.7	1.4	9.9	1.2
Pneumonia . . . . . 480-486	46.1	2.2	42.9	2.1	49.2	2.6
Chronic bronchitis . . . . . 491	17.8	1.2	15.8	1.1	19.7	1.4
Asthma . . . . . 493	16.7	1.4	14.5	1.8	18.8	1.3
Diseases of the digestive system . . . . . 520-579	113.0	4.5	101.2	4.3	124.4	5.2
Appendicitis. . . . . 540-543	9.8	0.7	11.5	0.8	8.3	0.7
Noninfectious enteritis and colitis . . . . . 555-558	10.0	0.5	7.7	0.6	12.1	0.7
Diverticula of intestine . . . . . 562	9.5	0.5	7.7	0.6	11.2	0.7
Cholelithiasis . . . . . 574	12.4	0.7	8.2	0.7	16.4	0.9
Diseases of the genitourinary system . . . . . 580-629	62.7	2.9	39.2	2.4	85.2	3.7
Calculus of kidney and ureter. . . . . 592	6.3	0.5	7.6	0.7	5.1	0.6
Complications of pregnancy, childbirth, and the puerperium <sup>2</sup> . . . . . 630-677	18.1	1.0	...	...	35.5	2.0
Diseases of the skin and subcutaneous tissue. . . . . 680-709	18.5	1.5	19.1	1.6	17.9	1.5
Cellulitis and abscess . . . . . 681-682	12.7	0.6	13.6	0.8	11.9	0.7
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	55.0	3.3	49.0	3.0	60.8	3.8
Osteoarthritis and allied disorders . . . . . 715	15.9	1.3	12.8	1.1	18.8	1.5
Intervertebral disc disorders . . . . . 722	11.8	0.8	12.9	0.9	10.9	0.9
Congenital anomalies . . . . . 740-759	5.9	1.0	6.9	1.2	5.0	0.9
Certain conditions originating in the perinatal period . . . . . 760-779	5.6	1.0	6.3	1.2	4.9	0.9
Symptoms, signs, and ill-defined conditions . . . . . 780-799	9.6	0.6	9.4	0.7	9.8	0.7
Injury and poisoning . . . . . 800-999	88.7	4.0	89.3	4.2	88.1	4.3
Fractures, all sites <sup>3</sup> . . . . . 800-829	35.3	2.0	30.4	1.8	40.0	2.5
Fracture of neck of femur <sup>3</sup> . . . . . 820	11.6	0.8	6.0	0.5	16.9	1.3
Poisonings . . . . . 960-989	6.9	0.4	5.3	0.4	8.5	0.6
Supplementary classifications . . . . . V01-V82	166.8	6.9	27.8	2.4	299.9	12.5
Females with deliveries . . . . . V27	134.4	6.0	...	...	263.0	11.7

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

... Category not applicable.

<sup>1</sup>SE is standard error of rate.<sup>2</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>3</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 7. Average length of stay for discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 2000**[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	
	ALOS <sup>1</sup>	SE <sup>2</sup>	ALOS <sup>1</sup>	SE <sup>2</sup>	ALOS <sup>1</sup>	SE <sup>2</sup>
All conditions . . . . .	4.9	0.1	5.3	0.1	4.6	0.1
Infectious and parasitic diseases . . . . . 001-139	6.3	0.2	6.2	0.3	6.3	0.2
Septicemia . . . . . .038	8.0	0.3	7.6	0.4	8.3	0.4
Neoplasms. . . . . 140-239	5.8	0.1	7.0	0.2	5.2	0.1
Malignant neoplasms . . . . . 140-208,230-234	6.7	0.1	7.2	0.2	6.4	0.2
Malignant neoplasm of large intestine and rectum . . . . . 153-154,197.5	8.6	0.3	9.0	0.5	8.1	0.4
Malignant neoplasm of trachea, bronchus, and lung . . . . . 162,176.4,197.0,197.3	6.7	0.2	6.3	0.3	7.0	0.3
Malignant neoplasm of breast . . . . . 174-175,198.81	2.9	0.5	*	*	2.9	0.5
Benign neoplasms. . . . . 210-229	3.2	0.1	4.5	0.4	3.0	0.1
Endocrine, nutritional and metabolic diseases, and immunity disorders. . . . . 240-279	4.5	0.1	4.6	0.2	4.4	0.1
Diabetes mellitus . . . . . .250	5.2	0.2	5.4	0.3	5.0	0.2
Volume depletion . . . . . 276.5	4.0	0.2	3.9	0.2	4.1	0.2
Diseases of the blood and blood-forming organs . . . . . 280-289	4.4	0.2	4.3	0.2	4.5	0.2
Mental disorders . . . . . 290-319	7.3	0.4	7.2	0.4	7.5	0.4
Psychoses . . . . . 290-299	8.1	0.4	8.2	0.5	8.1	0.4
Alcohol dependence syndrome . . . . . .303	5.7	0.5	5.4	0.6	6.7	0.8
Diseases of the nervous system and sense organs. . . . . 320-389	4.8	0.2	5.2	0.3	4.5	0.2
Diseases of the circulatory system . . . . . 390-459	4.8	0.1	4.7	0.1	5.0	0.1
Heart disease . . . . . 391-392.0,393-398,402,404,410-416,420-429	4.7	0.1	4.5	0.1	4.9	0.1
Acute myocardial infarction . . . . . .410	5.7	0.1	5.2	0.1	6.3	0.2
Coronary atherosclerosis . . . . . 414.0	3.9	0.1	3.8	0.1	4.0	0.2
Other ischemic heart disease . . . . . 411-413,414.1-414.9	2.7	0.1	2.6	0.1	2.8	0.1
Cardiac dysrhythmias . . . . . .427	3.7	0.1	3.6	0.1	3.8	0.2
Congestive heart failure . . . . . 428.0	5.5	0.1	5.6	0.3	5.4	0.1
Cerebrovascular disease. . . . . 430-438	5.4	0.2	5.2	0.2	5.5	0.2
Diseases of the respiratory system . . . . . 460-519	5.4	0.1	5.3	0.2	5.5	0.1
Acute bronchitis and bronchiolitis . . . . . .466	3.4	0.1	3.2	0.1	3.7	0.3
Pneumonia . . . . . 480-486	5.9	0.1	5.6	0.1	6.1	0.2
Chronic bronchitis . . . . . .491	5.2	0.2	5.2	0.2	5.2	0.2
Asthma . . . . . .493	3.0	0.1	2.6	0.1	3.4	0.1
Diseases of the digestive system . . . . . 520-579	4.7	0.1	4.7	0.1	4.8	0.1
Appendicitis. . . . . 540-543	3.3	0.2	3.3	0.3	3.2	0.2
Noninfectious enteritis and colitis . . . . . 555-558	4.6	0.2	4.0	0.2	4.9	0.3
Diverticula of intestine . . . . . .562	5.5	0.2	4.9	0.2	5.9	0.3
Cholelithiasis . . . . . .574	3.8	0.1	4.4	0.3	3.6	0.1
Diseases of the genitourinary system . . . . . 580-629	3.8	0.1	4.1	0.1	3.6	0.1
Calculus of kidney and ureter. . . . . .592	2.4	0.2	2.0	0.1	2.9	0.5
Complications of pregnancy, childbirth, and the puerperium <sup>3</sup> . . . . . 630-677	2.5	0.1	...	...	2.5	0.1
Diseases of the skin and subcutaneous tissue. . . . . 680-709	5.5	0.2	5.5	0.3	5.6	0.3
Cellulitis and abscess . . . . . 681-682	5.3	0.2	5.1	0.2	5.4	0.2
Diseases of the musculoskeletal system and connective tissue . . . . . 710-739	4.1	0.1	4.0	0.1	4.3	0.1
Osteoarthritis and allied disorders . . . . . .715	4.5	0.1	4.5	0.2	4.5	0.1
Intervertebral disc disorders. . . . . .722	3.0	0.1	2.6	0.1	3.3	0.2
Congenital anomalies . . . . . 740-759	5.7	0.6	5.4	0.5	6.1	0.8
Certain conditions originating in the perinatal period . . . . . 760-779	10.1	0.8	11.5	1.4	8.4	0.8
Symptoms, signs, and ill-defined conditions . . . . . 780-799	2.4	0.1	2.3	0.2	2.5	0.2
Injury and poisoning . . . . . 800-999	5.4	0.2	5.4	0.2	5.4	0.1
Fractures, all sites <sup>4</sup> . . . . . 800-829	5.8	0.2	5.9	0.5	5.6	0.2
Fracture of neck of femur <sup>4</sup> . . . . . .820	7.0	0.3	7.3	0.4	6.9	0.3
Poisonings . . . . . 960-989	2.9	0.3	2.7	0.2	3.0	0.4
Supplementary classifications . . . . . V01-V82	3.9	0.2	9.2	0.5	3.4	0.1
Females with deliveries . . . . . V27	2.5	0.0	...	...	2.5	0.0

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

... Category not applicable.

<sup>1</sup>ALOS is average length of stay.<sup>2</sup>SE is standard error of average length of stay.<sup>3</sup>First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."<sup>4</sup>Excludes fractures coded as 733.1, pathologic fracture.

**Table 8. Number of all-listed procedures for discharges from short-stay hospitals by procedure category and age: United States, 2000**

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

Procedure category and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>
	Number in thousands									
All procedures . . . . .	39,981	1,855	1,951	323	13,518	612	9,775	500	14,737	807
Operations on the nervous system . . . . .01-05	1,000	77	210	41	309	38	238	18	242	19
Spinal tap . . . . .03.31	296	25	131	22	70	7	47	5	48	4
Operations on the endocrine system . . . . .06-07	90	6	*	*	27	3	37	5	23	3
Operations on the eye . . . . .08-16	80	11	9	2	20	4	20	4	32	6
Operations on the ear . . . . .18-20	37	5	22	5	8	2	*4	*1	*4	*1
Operations on the nose, mouth, and pharynx . . . . .21-29	261	18	56	10	89	8	57	6	59	7
Operations on the respiratory system . . . . .30-34	969	49	57	14	164	14	271	17	477	30
Bronchoscopy with or without biopsy . . . . .33.21-33.24,33.27	248	18	*	*	42	5	73	7	116	10
Operations on the cardiovascular system . . . . .35-39	5,939	339	154	31	549	30	2,113	131	3,123	189
Removal of coronary artery obstruction and insertion of stent(s) . . . . .36.0	1,025	83	*	*	62	8	437	32	524	51
Coronary artery bypass graft <sup>2</sup> . . . . .36.1	519	41	*	*	17	3	216	19	286	23
Cardiac catheterization . . . . .37.21-37.23	1,221	101	8	2	96	10	520	43	597	51
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . .37.7-37.8	327	22	*	*	*5	*1	45	7	274	19
Hemodialysis . . . . .39.95	456	31	*	*	65	6	164	14	226	18
Operations on the hemic and lymphatic system . . . . .40-41	315	18	*	*	49	4	108	8	135	11
Operations on the digestive system . . . . .42-54	5,145	207	208	39	1,136	51	1,404	65	2,397	109
Endoscopy of small intestine with or without biopsy . . . . .45.11-45.14,45.16	915	40	11	3	120	8	231	13	553	28
Endoscopy of large intestine with or without biopsy . . . . .45.21-45.25	541	27	*	*	65	6	125	10	346	19
Partial excision of large intestine . . . . .45.7	236	14	*	*	27	4	73	6	134	9
Appendectomy, excluding incidental . . . . .47.0	303	19	71	9	167	11	50	5	16	2
Cholecystectomy . . . . .51.2	419	21	*	*	138	9	129	9	149	10
Lysis of peritoneal adhesions . . . . .54.5	307	17	4	1	123	9	94	7	85	8
Operations on the urinary system . . . . .55-59	962	55	35	9	235	20	291	19	401	28
Cystoscopy with or without biopsy . . . . .57.31-57.33	181	12	*	*	33	4	47	4	97	8
Operations on the male genital organs . . . . .60-64	258	18	19	5	14	3	68	6	157	12
Prostatectomy . . . . .60.2-60.6	184	16	*	*	*	*	48	5	134	12
Operations on the female genital organs . . . . .65-71	2,061	94	6	1	1,192	58	638	34	225	17
Oophorectomy and salpingo-oophorectomy . . . . .65.3-65.6	494	27	*	*	205	14	230	14	57	6
Bilateral destruction or occlusion of fallopian tubes . . . . .66.2-66.3	315	19	*	*	315	19	*	*	*	*
Hysterectomy . . . . .68.3-68.7,68.9	633	33	*	*	317	20	254	14	62	5
Obstetrical procedures . . . . .72-75	6,209	296	19	3	6,185	295	*5	*1	...	...
Episiotomy with or without forceps or vacuum extraction . . . . .72.1,72.21,72.31,72.71,73.6	944	57	*	*	940	57	*	*	...	...
Artificial rupture of membranes . . . . .73.0	833	61	*	*	830	61	*	*	...	...
Cesarean section . . . . .74.0-74.2,74.4,74.99	855	43	*	*	853	43	*	*	...	...
Repair of current obstetric laceration . . . . .75.5-75.6	1,136	59	*4	*1	1,130	59	*	*	...	...
Operations on the musculoskeletal system . . . . .76-84	3,171	182	172	31	836	49	918	63	1,245	84
Partial excision of bone . . . . .76.2-76.3,77.6-77.8	209	17	11	3	70	6	77	9	51	6
Reduction of fracture . . . . .76.7,79.0-79.3	628	41	51	8	187	15	125	10	265	20
Open reduction of fracture with internal fixation . . . . .79.3	423	28	15	3	117	10	87	7	203	15
Excision or destruction of intervertebral disc . . . . .80.5	296	23	*	*	126	11	128	11	41	5
Total hip replacement . . . . .81.51	152	12	*	*	13	2	51	6	88	8
Total knee replacement . . . . .81.54	299	28	*	*	*6	*1	82	9	211	22
Operations on the integumentary system . . . . .85-86	1,264	87	*	*	355	25	378	21	407	25
Debridement of wound, infection, or burn . . . . .86.22,86.28	325	20	17	4	84	8	105	10	120	9
Miscellaneous diagnostic and therapeutic procedures . . . . .87-99	12,223	932	837	147	2,349	248	3,226	239	5,812	449
Computerized axial tomography . . . . .87.03,87.41,87.71,88.01,88.38	754	94	39	10	150	22	182	23	383	54
Arteriography and angiocardiology using contrast material . . . . .88.4-88.5	2,005	146	11	3	175	14	821	64	998	76
Diagnostic ultrasound . . . . .88.7	886	96	37	10	143	18	232	25	474	59
Respiratory therapy . . . . .93.9,96.7	991	89	206	61	129	14	215	18	440	34
Insertion of endotracheal tube . . . . .96.04	429	23	40	9	61	5	103	7	226	15
Injection or infusion of cancer chemotherapeutic substance . . . . .99.25	199	20	48	13	37	5	68	7	46	6

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

... Category not applicable.

<sup>1</sup>SE is standard error.

<sup>2</sup>The number of discharges with a coronary artery bypass graft was 314,000.

**Table 9. Rate of all-listed procedures for discharges from short-stay hospitals by procedure category and age: United States, 2000**[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>
	Rate per 10,000 population									
All procedures . . . . .	1,437.7	66.7	322.5	53.4	1,106.3	50.1	1,603.9	82.0	4,274.7	234.2
Operations on the nervous system . . . . . 01-05	35.9	2.8	34.8	6.7	25.3	3.1	39.1	2.9	70.3	5.6
Spinal tap . . . . . 03.31	10.6	0.9	21.6	3.7	5.8	0.5	7.8	0.8	13.8	1.3
Operations on the endocrine system . . . . . 06-07	3.2	0.2	*	*	2.2	0.3	6.1	0.7	6.5	0.8
Operations on the eye . . . . . 08-16	2.9	0.4	1.5	0.3	1.6	0.3	3.2	0.6	9.3	1.7
Operations on the ear . . . . . 18-20	1.3	0.2	3.6	0.8	0.6	0.1	*0.6	*0.1	*1.1	*0.3
Operations on the nose, mouth, and pharynx . . . . . 21-29	9.4	0.7	9.2	1.6	7.3	0.6	9.4	0.9	17.0	2.0
Operations on the respiratory system . . . . . 30-34	34.8	1.8	9.4	2.3	13.4	1.1	44.4	2.7	138.3	8.7
Bronchoscopy with or without biopsy . . . . . 33.21-33.24,33.27	8.9	0.7	*	*	3.5	0.4	12.1	1.2	33.7	2.9
Operations on the cardiovascular system . . . . . 35-39	213.5	12.2	25.4	5.2	44.9	2.5	346.8	21.4	905.9	54.9
Removal of coronary artery obstruction and insertion of stent(s) . . . . . 36.0	36.9	3.0	*	*	5.1	0.6	71.7	5.2	152.0	14.7
Coronary artery bypass graft <sup>2</sup> . . . . . 36.1	18.7	1.5	*	*	1.4	0.2	35.4	3.2	82.9	6.8
Cardiac catheterization . . . . . 37.21-37.23	43.9	3.6	1.4	0.3	7.8	0.8	85.4	7.0	173.0	14.8
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	11.8	0.8	*	*	*0.4	*0.1	7.4	1.2	79.4	5.5
Hemodialysis . . . . . 39.95	16.4	1.1	*	*	5.3	0.5	26.9	2.3	65.5	5.3
Operations on the hemic and lymphatic system . . . . . 40-41	11.3	0.7	*	*	4.0	0.4	17.7	1.3	39.1	3.3
Operations on the digestive system . . . . . 42-54	185.0	7.4	34.4	6.5	93.0	4.2	230.3	10.7	695.2	31.7
Endoscopy of small intestine with or without biopsy . . . . . 45.11-45.14,45.16	32.9	1.5	1.8	0.5	9.8	0.7	37.9	2.1	160.5	8.0
Endoscopy of large intestine with or without biopsy . . . . . 45.21-45.25	19.4	1.0	*	*	5.3	0.5	20.5	1.6	100.5	5.6
Partial excision of large intestine . . . . . 45.7	8.5	0.5	*	*	2.2	0.3	11.9	1.0	38.8	2.6
Appendectomy, excluding incidental . . . . . 47.0	10.9	0.7	11.7	1.4	13.6	0.9	8.2	0.9	4.7	0.7
Cholecystectomy . . . . . 51.2	15.1	0.7	*	*	11.3	0.7	21.2	1.5	43.3	3.0
Lysis of peritoneal adhesions . . . . . 54.5	11.0	0.6	0.7	0.2	10.1	0.7	15.5	1.1	24.8	2.2
Operations on the urinary system . . . . . 55-59	34.6	2.0	5.8	1.5	19.3	1.6	47.7	3.1	116.3	8.2
Cystoscopy with or without biopsy . . . . . 57.31-57.33	6.5	0.4	*	*	2.7	0.3	7.8	0.7	28.0	2.3
Operations on the male genital organs . . . . . 60-64	9.3	0.6	3.2	0.8	1.2	0.2	11.1	1.1	45.5	3.6
Prostatectomy . . . . . 60.2-60.6	6.6	0.6	*	*	*	*	7.9	0.9	38.9	3.3
Operations on the female genital organs . . . . . 65-71	74.1	3.4	0.9	0.2	97.5	4.8	104.7	5.6	65.3	4.8
Oophorectomy and salpingo-oophorectomy . . . . . 65.3-65.6	17.8	1.0	*	*	16.8	1.1	37.8	2.3	16.6	1.6
Bilateral destruction or occlusion of fallopian tubes . . . . . 66.2-66.3	11.3	0.7	*	*	25.8	1.5	*	*	*	*
Hysterectomy . . . . . 68.3-68.7,68.9	22.8	1.2	*	*	26.0	1.6	41.7	2.4	17.9	1.4
Obstetrical procedures . . . . . 72-75	223.3	10.6	3.1	0.5	506.2	24.1	*0.8	*0.2	...	...
Episiotomy with or without forceps or vacuum extraction . . . . . 72.1,72.21,72.31,72.71,73.6	33.9	2.0	*	*	76.9	4.6	*	*	...	...
Artificial rupture of membranes . . . . . 73.0	30.0	2.2	*	*	67.9	5.0	*	*	...	...
Cesarean section . . . . . 74.0-74.2,74.4,74.99	30.8	1.6	*	*	69.8	3.5	*	*	...	...
Repair of current obstetric laceration . . . . . 75.5-75.6	40.9	2.1	*0.7	*0.2	92.5	4.8	*	*	...	...
Operations on the musculoskeletal system . . . . . 76-84	114.0	6.6	28.4	5.1	68.4	4.0	150.6	10.3	361.1	24.2
Partial excision of bone . . . . . 76.2-76.3,77.6-77.8	7.5	0.6	1.9	0.5	5.7	0.5	12.7	1.4	14.7	1.6
Reduction of fracture . . . . . 76.7,79.0-79.3	22.6	1.5	8.5	1.4	15.3	1.2	20.5	1.7	76.8	5.7
Open reduction of fracture with internal fixation . . . . . 79.3	15.2	1.0	2.5	0.5	9.5	0.8	14.3	1.2	58.9	4.5
Excision or destruction of intervertebral disc . . . . . 80.5	10.6	0.8	*	*	10.3	0.9	21.0	1.9	12.0	1.4
Total hip replacement . . . . . 81.51	5.5	0.4	*	*	1.0	0.2	8.3	1.0	25.7	2.3
Total knee replacement . . . . . 81.54	10.8	1.0	*	*	*0.5	*0.1	13.5	1.5	61.2	6.3
Operations on the integumentary system . . . . . 85-86	45.4	3.1	*	*	29.1	2.0	62.0	3.4	118.0	7.1
Debridement of wound, infection, or burn . . . . . 86.22,86.28	11.7	0.7	2.9	0.6	6.8	0.6	17.2	1.7	34.7	2.6
Miscellaneous diagnostic and therapeutic procedures . . . . . 87-99	439.5	33.5	138.3	24.3	192.3	20.3	529.3	39.2	1,685.7	130.3
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	27.1	3.4	6.5	1.7	12.3	1.8	29.8	3.8	111.0	15.5
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	72.1	5.3	1.8	0.4	14.3	1.1	134.6	10.5	289.5	21.9
Diagnostic ultrasound . . . . . 88.7	31.9	3.5	6.1	1.6	11.7	1.5	38.1	4.1	137.6	17.0
Respiratory therapy . . . . . 93.9,96.7	35.6	3.2	34.1	10.0	10.6	1.1	35.2	3.0	127.7	9.8
Insertion of endotracheal tube . . . . . 96.04	15.4	0.8	6.5	1.4	5.0	0.4	16.9	1.1	65.5	4.5
Injection or infusion of cancer chemotherapeutic substance . . . . . 99.25	7.2	0.7	8.0	2.1	3.0	0.4	11.2	1.1	13.3	1.8

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

... Category not applicable.

<sup>1</sup>SE is standard error of rate.<sup>2</sup>The rate per 10,000 population of discharges with a coronary artery bypass graft was 11.3.



**Table 10. Number of all-listed procedures for discharges from short-stay hospitals by procedure category and sex: United States, 2000**[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	SE <sup>1</sup>	Number	SE <sup>1</sup>	Number	SE <sup>1</sup>
			Number in thousands			
All procedures . . . . .	39,981	1,855	15,654	852	24,328	1,047
Operations on the nervous system . . . . . 01-05	1,000	77	458	37	542	49
Spinal tap . . . . . 03.31	296	25	156	16	141	12
Operations on the endocrine system . . . . . 06-07	90	6	23	2	67	6
Operations on the eye . . . . . 08-16	80	11	43	7	37	5
Operations on the ear . . . . . 18-20	37	5	24	4	13	2
Operations on the nose, mouth, and pharynx . . . . . 21-29	261	18	158	12	103	8
Operations on the respiratory system . . . . . 30-34	969	49	526	32	443	24
Bronchoscopy with or without biopsy . . . . . 33.21-33.24,33.27	248	18	145	13	103	8
Operations on the cardiovascular system . . . . . 35-39	5,939	339	3,420	209	2,519	135
Removal of coronary artery obstruction and insertion of stent(s) . . . . . 36.0	1,025	83	655	54	370	31
Coronary artery bypass graft <sup>2</sup> . . . . . 36.1	519	41	371	31	148	11
Cardiac catheterization . . . . . 37.21-37.23	1,221	101	732	61	490	41
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	327	22	162	12	165	16
Hemodialysis . . . . . 39.95	456	31	224	20	232	16
Operations on the hemic and lymphatic system . . . . . 40-41	315	18	160	11	155	9
Operations on the digestive system . . . . . 42-54	5,145	207	2,180	98	2,965	121
Endoscopy of small intestine with or without biopsy . . . . . 45.11-45.14,45.16	915	40	408	21	508	25
Endoscopy of large intestine with or without biopsy . . . . . 45.21-45.25	541	27	210	12	331	19
Partial excision of large intestine . . . . . 45.7	236	14	107	8	129	10
Appendectomy, excluding incidental . . . . . 47.0	303	19	163	12	140	9
Cholecystectomy . . . . . 51.2	419	21	134	9	284	15
Lysis of peritoneal adhesions . . . . . 54.5	307	17	61	5	246	14
Operations on the urinary system . . . . . 55-59	962	55	450	28	511	34
Cystoscopy with or without biopsy . . . . . 57.31-57.33	181	12	96	8	85	7
Operations on the male genital organs . . . . . 60-64	258	18	258	18	...	...
Prostatectomy . . . . . 60.2-60.6	184	16	184	16	...	...
Operations on the female genital organs . . . . . 65-71	2,061	94	...	...	2,061	94
Oophorectomy and salpingo-oophorectomy . . . . . 65.3-65.6	494	27	...	...	494	27
Bilateral destruction or occlusion of fallopian tubes . . . . . 66.2-66.3	315	19	...	...	315	19
Hysterectomy . . . . . 68.3-68.7,68.9	633	33	...	...	633	33
Obstetrical procedures . . . . . 72-75	6,209	296	...	...	6,209	296
Episiotomy with or without forceps or vacuum extraction . . . . . 72.1,72.21,72.31,72.71,73.6	944	57	...	...	944	57
Artificial rupture of membranes . . . . . 73.0	833	61	...	...	833	61
Cesarean section . . . . . 74.0-74.2,74.4,74.99	855	43	...	...	855	43
Repair of current obstetric laceration . . . . . 75.5-75.6	1,136	59	...	...	1,136	59
Operations on the musculoskeletal system . . . . . 76-84	3,171	182	1,546	87	1,624	101
Partial excision of bone . . . . . 76.2-76.3,77.6-77.8	209	17	111	9	98	10
Reduction of fracture . . . . . 76.7,79.0-79.3	628	41	285	21	344	23
Open reduction of fracture with internal fixation . . . . . 79.3	423	28	177	14	246	17
Excision or destruction of intervertebral disc . . . . . 80.5	296	23	162	13	134	12
Total hip replacement . . . . . 81.51	152	12	69	6	83	7
Total knee replacement . . . . . 81.54	299	28	115	12	185	17
Operations on the integumentary system . . . . . 85-86	1,264	87	567	47	697	45
Debridement of wound, infection, or burn . . . . . 86.22,86.28	325	20	189	14	136	9
Miscellaneous diagnostic and therapeutic procedures . . . . . 87-99	12,223	932	5,841	442	6,382	497
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	754	94	345	45	409	52
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	2,005	146	1,157	87	848	63
Diagnostic ultrasound . . . . . 88.7	886	96	385	42	501	56
Respiratory therapy . . . . . 93.9,96.7	991	89	507	48	484	43
Insertion of endotracheal tube . . . . . 96.04	429	23	221	13	209	12
Injection or infusion of cancer chemotherapeutic substance . . . . . 99.25	199	20	115	15	85	9

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

... Category not applicable.

<sup>1</sup>SE is standard error.<sup>2</sup>The number of discharges with a coronary artery bypass graft was 314,000.

**Table 11. Rate of all-listed procedures for discharges from short-stay hospitals by procedure category and sex: United States, 2000**[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	SE <sup>1</sup>	Rate	SE <sup>1</sup>	Rate	SE <sup>1</sup>
	Rate per 10,000 population					
All procedures . . . . .	1,437.7	66.7	1,151.1	62.6	1,711.8	73.7
Operations on the nervous system . . . . . 01-05	35.9	2.8	33.7	2.7	38.1	3.4
Spinal tap . . . . . 03.31	10.6	0.9	11.4	1.2	9.9	0.8
Operations on the endocrine system . . . . . 06-07	3.2	0.2	1.7	0.2	4.7	0.4
Operations on the eye . . . . . 08-16	2.9	0.4	3.2	0.5	2.6	0.4
Operations on the ear . . . . . 18-20	1.3	0.2	1.7	0.3	0.9	0.2
Operations on the nose, mouth, and pharynx . . . . . 21-29	9.4	0.7	11.6	0.9	7.2	0.6
Operations on the respiratory system . . . . . 30-34	34.8	1.8	38.7	2.3	31.2	1.7
Bronchoscopy with or without biopsy . . . . . 33.21-33.24,33.27	8.9	0.7	10.6	1.0	7.3	0.6
Operations on the cardiovascular system . . . . . 35-39	213.5	12.2	251.5	15.4	177.2	9.5
Removal of coronary artery obstruction and insertion of stent(s) . . . . . 36.0	36.9	3.0	48.2	4.0	26.0	2.2
Coronary artery bypass graft <sup>2</sup> . . . . . 36.1	18.7	1.5	27.3	2.3	10.4	0.8
Cardiac catheterization . . . . . 37.21-37.23	43.9	3.6	53.8	4.5	34.4	2.9
Insertion, replacement, removal, and revision of pacemaker leads or device . . . . . 37.7-37.8	11.8	0.8	11.9	0.9	11.6	1.1
Hemodialysis . . . . . 39.95	16.4	1.1	16.4	1.4	16.3	1.1
Operations on the hemic and lymphatic system . . . . . 40-41	11.3	0.7	11.7	0.8	10.9	0.7
Operations on the digestive system . . . . . 42-54	185.0	7.4	160.3	7.2	208.6	8.5
Endoscopy of small intestine with or without biopsy . . . . . 45.11-45.14,45.16	32.9	1.5	30.0	1.5	35.7	1.7
Endoscopy of large intestine with or without biopsy . . . . . 45.21-45.25	19.4	1.0	15.5	0.9	23.3	1.3
Partial excision of large intestine . . . . . 45.7	8.5	0.5	7.9	0.6	9.1	0.7
Appendectomy, excluding incidental . . . . . 47.0	10.9	0.7	12.0	0.8	9.8	0.7
Cholecystectomy . . . . . 51.2	15.1	0.7	9.9	0.6	20.0	1.1
Lysis of peritoneal adhesions . . . . . 54.5	11.0	0.6	4.5	0.4	17.3	1.0
Operations on the urinary system . . . . . 55-59	34.6	2.0	33.1	2.0	36.0	2.4
Cystoscopy with or without biopsy . . . . . 57.31-57.33	6.5	0.4	7.1	0.6	6.0	0.5
Operations on the male genital organs . . . . . 60-64	9.3	0.6	18.9	1.3	...	...
Prostatectomy . . . . . 60.2-60.6	6.6	0.6	13.5	1.2	...	...
Operations on the female genital organs . . . . . 65-71	74.1	3.4	...	...	145.0	6.6
Oophorectomy and salpingo-oophorectomy . . . . . 65.3-65.6	17.8	1.0	...	...	34.7	1.9
Bilateral destruction or occlusion of fallopian tubes . . . . . 66.2-66.3	11.3	0.7	...	...	22.2	1.3
Hysterectomy . . . . . 68.3-68.7,68.9	22.8	1.2	...	...	44.6	2.3
Obstetrical procedures . . . . . 72-75	223.3	10.6	...	...	436.9	20.8
Episiotomy with or without forceps or vacuum extraction . . . . . 72.1,72.21,72.31,72.71,73.6	33.9	2.0	...	...	66.4	4.0
Artificial rupture of membranes . . . . . 73.0	30.0	2.2	...	...	58.6	4.3
Cesarean section . . . . . 74.0-74.2,74.4,74.99	30.8	1.6	...	...	60.2	3.0
Repair of current obstetric laceration . . . . . 75.5-75.6	40.9	2.1	...	...	79.9	4.1
Operations on the musculoskeletal system . . . . . 76-84	114.0	6.6	113.7	6.4	114.3	7.1
Partial excision of bone . . . . . 76.2-76.3,77.6-77.8	7.5	0.6	8.2	0.7	6.9	0.7
Reduction of fracture . . . . . 76.7,79.0-79.3	22.6	1.5	20.9	1.5	24.2	1.6
Open reduction of fracture with internal fixation . . . . . 79.3	15.2	1.0	13.0	1.0	17.3	1.2
Excision or destruction of intervertebral disc . . . . . 80.5	10.6	0.8	11.9	0.9	9.4	0.8
Total hip replacement . . . . . 81.51	5.5	0.4	5.1	0.5	5.8	0.5
Total knee replacement . . . . . 81.54	10.8	1.0	8.4	0.9	13.0	1.2
Operations on the integumentary system . . . . . 85-86	45.4	3.1	41.7	3.5	49.0	3.1
Debridement of wound, infection, or burn . . . . . 86.22,86.28	11.7	0.7	13.9	1.0	9.6	0.6
Miscellaneous diagnostic and therapeutic procedures . . . . . 87-99	439.5	33.5	429.6	32.5	449.1	35.0
Computerized axial tomography . . . . . 87.03,87.41,87.71,88.01,88.38	27.1	3.4	25.3	3.3	28.8	3.7
Arteriography and angiocardiology using contrast material . . . . . 88.4-88.5	72.1	5.3	85.1	6.4	59.6	4.4
Diagnostic ultrasound . . . . . 88.7	31.9	3.5	28.3	3.1	35.3	4.0
Respiratory therapy . . . . . 93.9,96.7	35.6	3.2	37.3	3.5	34.0	3.1
Insertion of endotracheal tube . . . . . 96.04	15.4	0.8	16.2	1.0	14.7	0.8
Injection or infusion of cancer chemotherapeutic substance . . . . . 99.25	7.2	0.7	8.4	1.1	6.0	0.6

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

... Category not applicable.

<sup>1</sup>SE is standard error of rate.<sup>2</sup>The rate per 10,000 population of discharges with a coronary artery bypass graft was 11.3.

---

**Suggested citation**

Hall MJ, Owings MF. 2000 National Hospital Discharge Survey. Advance data from vital and health statistics; no 329. Hyattsville, Maryland: National Center for Health Statistics. 2002.

---

**Copyright information**

All material appearing in this report is in the public domain and may be reproduced or copied without permission; citation as to source, however, is appreciated.

---

**National Center for Health Statistics**

Director  
Edward J. Sondik, Ph.D.

Deputy Director  
Jack R. Anderson

---

DEPARTMENT OF  
HEALTH & HUMAN SERVICES

Centers for Disease Control and Prevention  
National Center for Health Statistics  
6525 Belcrest Road  
Hyattsville, Maryland 20782-2003

FIRST CLASS MAIL  
POSTAGE & FEES PAID  
CDC/NCHS  
PERMIT NO. G-284

---

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

---

To receive this publication regularly, contact the National Center for Health Statistics by calling 301-458-4636  
E-mail: [nchsquery@cdc.gov](mailto:nchsquery@cdc.gov)  
Internet: [www.cdc.gov/nchs](http://www.cdc.gov/nchs)

---

DHHS Publication No. (PHS) 2002-1250  
02-0428 (6/02)