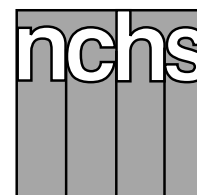


Advance Data



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

1998 Summary: National Hospital Discharge Survey

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Abstract

Objectives—This report presents national estimates of the use of non-Federal short-stay hospitals in the United States during 1998. Numbers and rates of discharges, diagnoses, and procedures are shown by age and sex. Discharges are also shown by geographic region of hospitals. Average lengths of stay are presented for all discharges and for selected diagnostic categories by age and by sex.

Methods—The estimates are based on medical abstract data collected through the National Hospital Discharge Survey for 1998. 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—In 1998, there were an estimated 31.8 million discharges of inpatients, excluding newborn infants, from short-stay non-Federal hospitals in the United States. The discharge rate was 1,165.3 per 10,000 population and the average length of stay was 5.1 days. Six diagnostic categories each accounted for more than a million discharges. These were heart disease, delivery, malignant neoplasms, pneumonia, psychoses, and cerebrovascular disease. There were 41.5 million procedures performed on hospital inpatients during the same year. 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.

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

Introduction

This report presents data from the 1998 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 1998 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 hospitals. 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 ([tables 1-11](#)). 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).

Acknowledgments

This report was prepared in the Division of Health Care Statistics. Staff 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 Klaudia M. Cox and typeset by Annette F. Holman of the Publications Branch, Division of Data Services.



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



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 (3–7) 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), which is also conducted by NCHS. NSAS was conducted from 1994 through 1996 and covers hospital-based and free-standing ambulatory surgery centers. Data from the three years of this survey have been published (8–13).

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 (14). The National Hospital Ambulatory Medical Care Survey collects data on procedures ordered or performed during visits to hospital outpatient and emergency departments (15,16).

Highlights

Patient and hospital characteristics

- In 1998, there were an estimated 31.8 million discharges of inpatients, excluding newborn infants, from short-stay non-Federal hospitals in the United States (table 1).
- The discharge rate was 1,165.3 per 10,000 population and the average length of stay was 5.1 days in 1998 (table 1).
- The discharge rate per 10,000 population was 934.7 for males and 1,385.3 for females. Males had an average length of stay of 5.5 days compared with 4.7 days for females.
- Persons 65 years of age and over accounted for 39 percent of all discharges (figure 1).
- The discharge rate per 10,000 population ranged from 1,308.7 in the Northeast region to 918.0 in the West.

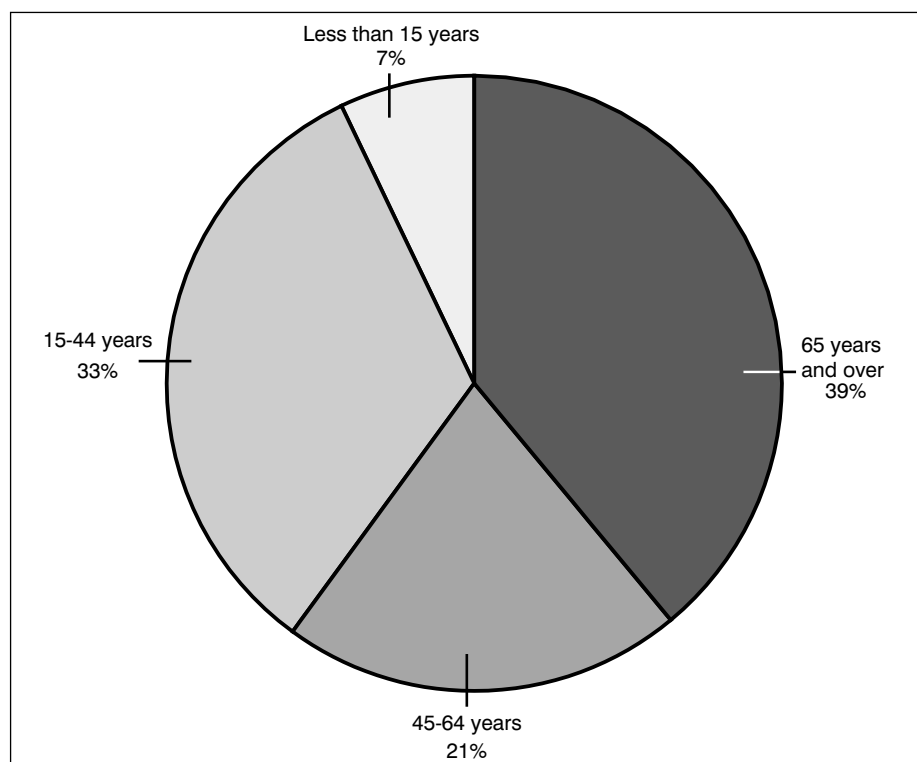


Figure 1. Percent of hospital discharges by age: United States, 1998

The average length of stay ranged from 5.8 days in the Northeast region to 4.6 days in the West.

8.7 days for psychoses (table 4) (figure 3).

Diagnoses

- Over 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 (4.3 million), delivery (4.0 million), malignant neoplasms (1.3 million), pneumonia (1.3 million), psychoses (1.3 million), and cerebrovascular disease (1.0 million) (figure 2).
- For persons 65 years of age and over, there were 829.5 discharges per 10,000 population with a first-listed diagnosis of heart disease (table 3).
- The average length of stay was 2.5 days for delivery, 4.9 days for heart disease, 5.9 days for cerebrovascular disease, 6.0 days for pneumonia, 7.2 days for malignant neoplasms, and

Procedures

- During 1998, 41.5 million procedures were performed on hospital inpatients (table 8).
- Almost three-fourths of all procedures were included 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 4).
- Frequent procedures for males were arteriography and angiocardiology, cardiac catheterization, removal of coronary artery obstruction and insertion of stent(s), respiratory therapy, diagnostic ultrasound, and computerized axial tomography.
- Frequent procedures for females were episiotomy, repair of current obstetric laceration, cesarean section, arteriography and angiocardiology, artificial rupture of membranes, hysterectomy, and diagnostic ultrasound.

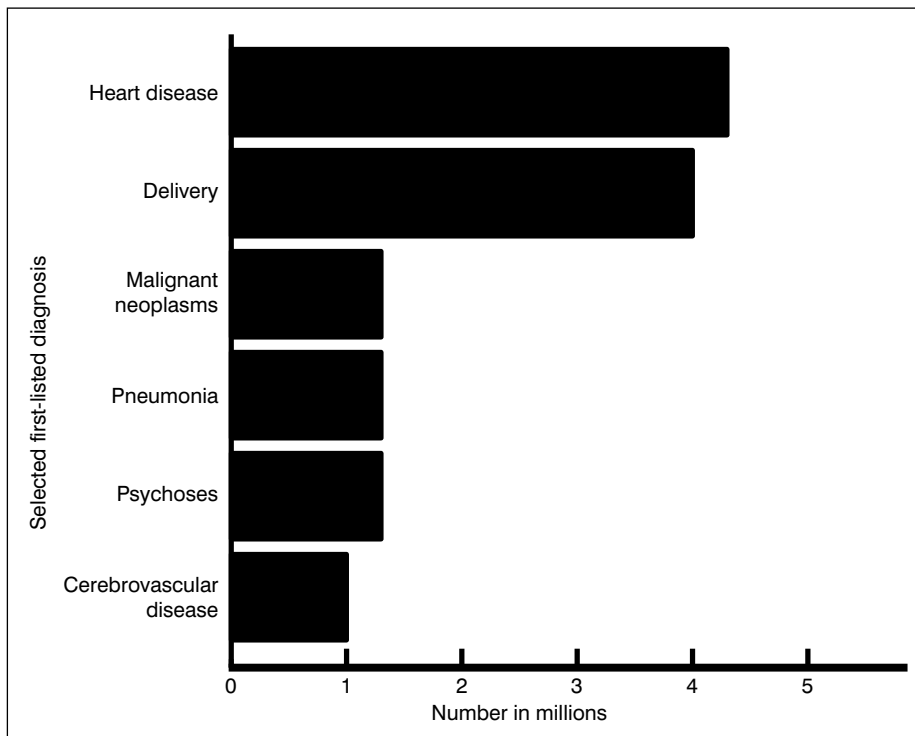


Figure 2. Number of selected first-listed diagnoses for hospital discharges: United States, 1998

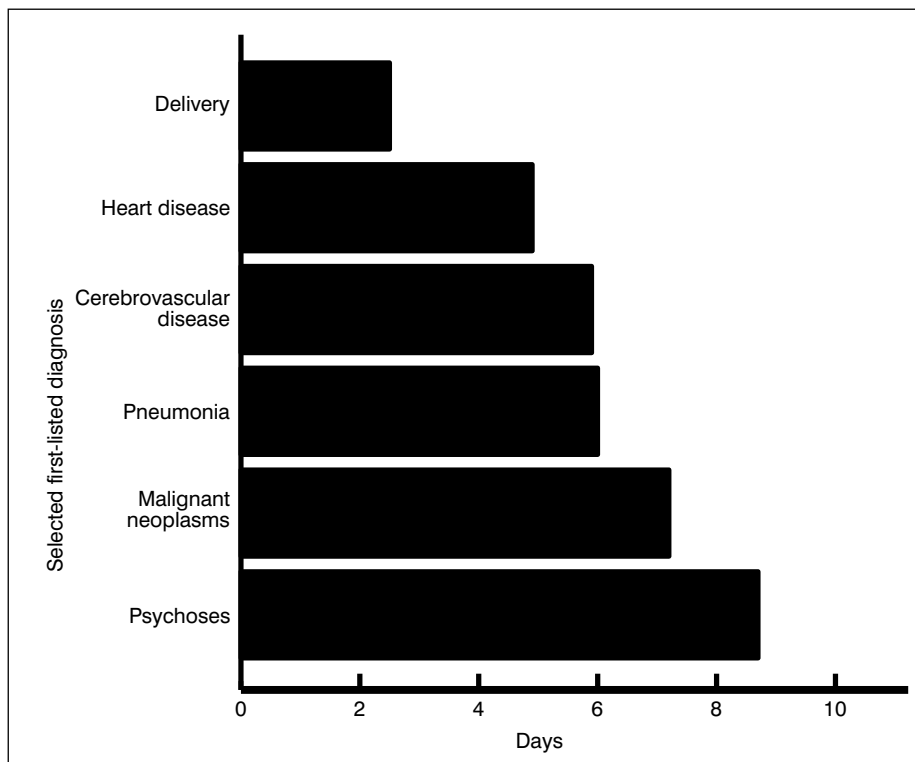


Figure 3. Average length of hospital stay for discharges with selected first-listed diagnoses: United States, 1998

Methods

Data source

The National Hospital Discharge Survey (NHDS) collects data from a sample of inpatient records acquired from a national sample of hospitals. Because 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 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 (17). Beginning in 1988, 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 (PSU's) that comprised a probability sample of PSU's used in the 1985–94 National Health Interview Survey (18). The second stage consisted of a selection of noncertainty hospitals from the sampled PSU's. 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 (19).

For 1998, the sample consisted of 513 hospitals, of which 18 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 495 in-scope (eligible) hospitals, 478 (96.6 percent) responded to the survey. Data were collected for approximately 307,000 discharges from the 478 responding hospitals.

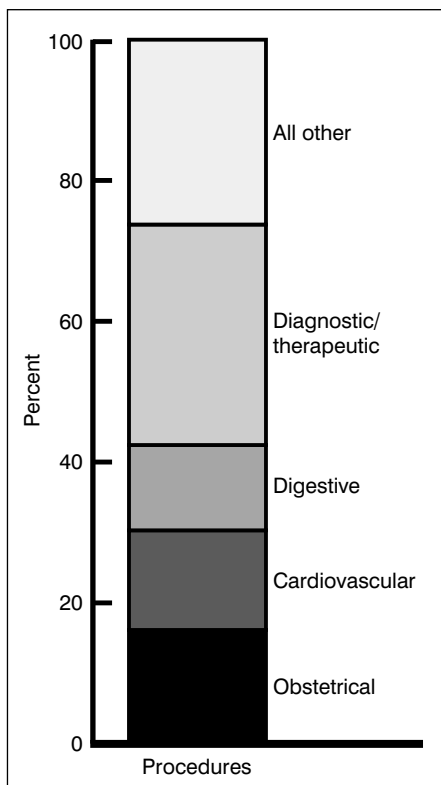


Figure 4. Percent distribution of all-listed inpatient procedures: United States, 1998

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. Bureau of the Census 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 1998, approximately 41 percent of respondent hospitals provided data through the automated system.

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, 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) (20). Definitions of the terms used in this report are in the National Hospital Discharge Survey Annual Summary for 1993 (21).

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 1998 data year was 1.3 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: (a) inflation by reciprocals of the probabilities of sample selection, (b) adjustment for nonresponse, and (c) population weighting ratio adjustments. These three components of the final weight are described in more detail in earlier reports (1,2).

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 (22). The standard errors of statistics for

the 1998 NHDS Advance Data are included in each of the tables.

Use of tables

Discharges are shown in this report 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, including surgical or nonsurgical operations, diagnostic procedures, and special treatments reported on the medical record, are also published. 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.

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.

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.

The population estimates used in computing rates are based on U.S. Bureau of the Census estimates of the

civilian population of the United States as of July 1, 1998. Figures are consistent with national population estimates in US-98-SIS-7 (U.S. Population Estimates by Age, Sex, Race and Hispanic Origin: 1998) and have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.

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. Bureau of the Census.

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

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.
- Bennett TA, Kotelchuck M, Cox CE, et al. Pregnancy-associated hospitalizations in the United States in 1991 and 1992; a comprehensive view of maternal morbidity. *Am J Obstet Gynecol* 178(2): 346–54. 1998.
- Parashar UD, Holman RC, Clarke MJ et al. Hospitalizations associated with rotavirus diarrhea in the United States, 1993 through 1995: surveillance based on the new ICD–9–CM rotavirus-specific diagnostic code. *J Infect Dis* 177(1): 13–17. 1998.
- Haldeman GA, Croft JB, Giles WH, Rashidee A. Hospitalization of patients with heart failure: National Hospital Discharge Survey, 1985 to 1995. *Am Heart J* 137(2): 352–60. 1999.
- Pappas G, Hadden WC, Kozak LJ, Fisher G. Potentially avoidable hospitalizations: inequalities between US socioeconomic groups. *Am J Public Health* 87(5): 811–16. 1997.
- Antal P, Gauderer M, Koshy M, Berman B. Is the incidence of appendicitis reduced in patients with sickle cell disease? *Pediatrics* 101(1): E7. 1998.
- 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.
- 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.
- 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.
- 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.
- Kozak LJ, Owings MF. Ambulatory and inpatient procedures in the United States, 1995. National Center for Health Statistics. *Vital Health Stat* 13(135). 1998.
- Owings MF, Kozak LJ. Ambulatory and inpatient procedures in the United States, 1996. National Center for Health Statistics. *Vital Health Stat* 13(139). 1998.
- Woodwell DA. National Ambulatory Medical Care Survey: 1997 summary. Advance Data from vital and health statistics; no 305. Hyattsville, Maryland: National Center for Health Statistics. 1999.
- McCaig LF. National Hospital Ambulatory Medical Care Survey: 1997 outpatient department summary. Advance data from vital and health statistics; no 307. Hyattsville, Maryland: National Center for Health Statistics. 1999.
- McCaig LF. National Hospital Ambulatory Medical Care Survey: 1998 emergency department summary. Advance data from vital and health statistics; no 313. Hyattsville, Maryland: National Center for Health Statistics. 2000.
- Haupt BJ, Kozak LJ. Estimates from two survey designs: National Hospital Discharge Survey. National Center for Health Statistics. *Vital Health Stat* 13(111). 1992.
- 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.
- SMG Marketing Group, Inc. Hospital Market Database. Chicago: Healthcare Information Specialists. 1987, April 1991, April 1994, April 1997.
- Public Health Service and Health Care Financing Administration. International Classification of Diseases, 9th Revision, Clinical Modification. Washington: Public Health Service. 4th ed. 1991.
- Graves EJ. National Hospital Discharge Survey: Annual Summary, 1993. National Center for Health Statistics. *Vital Health Stat* 13(121). 1995.
- Shah BV, Barnwell BG, Bieler GS. SUDAAN User's Manual: Software for Analysis of Correlated Data, Release 6.40. Research Triangle Park, NC: Research Triangle Institute. 1995.

Table 1. Number, rate, and average length of stay for discharges from short-stay hospitals by age, region, and sex: United States, 1998

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

| Selected characteristic | Both sexes | | Male | | Female | |
|-----------------------------|------------|-----------------|--------------------------------|-----------------|---------|-----------------|
| | Number | SE ¹ | Number | SE ¹ | Number | SE ¹ |
| | | | Number in thousands | | | |
| Total | 31,827 | 949 | 12,469 | 425 | 19,358 | 554 |
| Age | | | | | | |
| Under 15 years | 2,299 | 262 | 1,303 | 151 | 996 | 113 |
| 15–44 years | 10,376 | 312 | 2,718 | 109 | 7,659 | 245 |
| 45–64 years | 6,696 | 221 | 3,286 | 116 | 3,410 | 114 |
| 65 years and over | 12,456 | 440 | 5,162 | 204 | 7,293 | 246 |
| Region | | | | | | |
| Northeast | 6,818 | 348 | 2,855 | 171 | 3,964 | 186 |
| Midwest | 7,366 | 527 | 2,924 | 230 | 4,442 | 303 |
| South | 12,022 | 644 | 4,552 | 285 | 7,470 | 382 |
| West | 5,621 | 294 | 2,139 | 133 | 3,482 | 186 |
| | | | Rate per 10,000 population | | | |
| Total | 1,165.3 | 34.8 | 934.7 | 31.9 | 1,385.3 | 39.7 |
| Age | | | | | | |
| Under 15 years | 383.4 | 43.8 | 424.7 | 49.2 | 340.1 | 38.7 |
| 15–44 years | 850.6 | 25.5 | 446.0 | 17.8 | 1,254.1 | 40.2 |
| 45–64 years | 1,173.0 | 38.7 | 1,187.6 | 41.8 | 1,159.3 | 38.9 |
| 65 years and over | 3,652.7 | 129.0 | 3,654.4 | 144.7 | 3,651.5 | 123.1 |
| Region | | | | | | |
| Northeast | 1,308.7 | 66.9 | 1,132.3 | 67.7 | 1,473.9 | 69.0 |
| Midwest | 1,165.2 | 83.3 | 948.0 | 74.5 | 1,372.2 | 93.6 |
| South | 1,244.7 | 66.7 | 972.7 | 60.8 | 1,500.4 | 76.7 |
| West | 918.0 | 48.1 | 700.1 | 43.6 | 1,134.9 | 60.6 |
| | | | Average length of stay in days | | | |
| Total | 5.1 | 0.1 | 5.5 | 0.1 | 4.7 | 0.1 |
| Age | | | | | | |
| Under 15 years | 4.6 | 0.2 | 4.7 | 0.2 | 4.5 | 0.2 |
| 15–44 years | 3.7 | 0.1 | 5.1 | 0.1 | 3.2 | 0.1 |
| 45–64 years | 5.1 | 0.1 | 5.3 | 0.1 | 5.0 | 0.1 |
| 65 years and over | 6.2 | 0.1 | 6.1 | 0.1 | 6.2 | 0.1 |
| Region | | | | | | |
| Northeast | 5.8 | 0.2 | 6.1 | 0.2 | 5.5 | 0.1 |
| Midwest | 4.7 | 0.1 | 5.1 | 0.1 | 4.5 | 0.1 |
| South | 5.1 | 0.1 | 5.6 | 0.1 | 4.7 | 0.1 |
| West | 4.6 | 0.2 | 5.2 | 0.2 | 4.2 | 0.2 |

¹SE is standard error.

Table 2. Number of discharges from short-stay hospitals by first-listed diagnosis and age: United States, 1998

[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 ¹ | Number | SE ¹ | Number | SE ¹ | Number | SE ¹ | Number | SE ¹ |
| | Number in thousands | | | | | | | | | |
| All conditions | 31,827 | 949 | 2,299 | 262 | 10,376 | 312 | 6,696 | 221 | 12,456 | 440 |
| Infectious and parasitic diseases 001-139 | 866 | 44 | 178 | 24 | 209 | 12 | 145 | 9 | 335 | 19 |
| Septicemia 038 | 347 | 22 | 17 | 2 | 34 | 4 | 62 | 5 | 234 | 16 |
| Neoplasms 140-239 | 1,706 | 66 | 34 | 8 | 302 | 15 | 579 | 24 | 790 | 36 |
| Malignant neoplasms 140-208,230-234 | 1,266 | 51 | 23 | 5 | 124 | 8 | 410 | 18 | 708 | 34 |
| Malignant neoplasm of large intestine and rectum 153-154,197.5 | 169 | 10 | * | * | * | * | 41 | 4 | 120 | 9 |
| Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3 | 165 | 10 | * | * | 9 | 1 | 55 | 4 | 99 | 8 |
| Malignant neoplasm of breast 174-175,198.81 | 124 | 7 | * | * | 13 | 2 | 55 | 5 | 56 | 5 |
| Benign neoplasms 210-229 | 389 | 20 | * | * | 169 | 10 | 157 | 11 | 53 | 4 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279 | 1,332 | 48 | 139 | 15 | 272 | 13 | 329 | 15 | 592 | 24 |
| Diabetes mellitus 250 | 513 | 22 | 22 | 4 | 131 | 9 | 161 | 9 | 200 | 11 |
| Volume depletion 276.5 | 448 | 23 | 92 | 9 | 60 | 7 | 69 | 7 | 228 | 12 |
| Diseases of the blood and blood-forming organs 280-289 | 358 | 19 | 49 | 8 | 99 | 7 | 62 | 4 | 148 | 15 |
| Mental disorders 290-319 | 1,974 | 217 | 111 | 22 | 1,162 | 151 | 423 | 43 | 277 | 19 |
| Psychoses 290-299 | 1,253 | 139 | 46 | 12 | 711 | 95 | 267 | 29 | 229 | 16 |
| Alcohol dependence syndrome 303 | 179 | 27 | * | * | 112 | 18 | 55 | 9 | 11 | 2 |
| Diseases of the nervous system and sense organs 320-389 | 511 | 26 | 83 | 12 | 122 | 8 | 112 | 9 | 193 | 11 |
| Diseases of the circulatory system 390-459 | 6,272 | 241 | 30 | 6 | 395 | 15 | 1,753 | 76 | 4,094 | 163 |
| Heart disease 391-392.0,393-398,402,404,410-416,420-429 | 4,335 | 180 | 17 | 4 | 241 | 10 | 1,248 | 59 | 2,829 | 121 |
| Acute myocardial infarction 410 | 783 | 41 | * | * | 42 | 3 | 239 | 15 | 500 | 29 |
| Coronary atherosclerosis 414.0 | 1,094 | 73 | * | * | 48 | 4 | 428 | 32 | 618 | 43 |
| Other ischemic heart disease 411-413,414.1-414.9 | 308 | 25 | * | * | 21 | 3 | 115 | 9 | 172 | 17 |
| Cardiac dysrhythmias 427 | 670 | 27 | 5 | 2 | 48 | 4 | 153 | 9 | 464 | 20 |
| Congestive heart failure 428.0 | 978 | 42 | * | * | 25 | 2 | 175 | 12 | 773 | 33 |
| Cerebrovascular disease 430-438 | 1,010 | 41 | *5 | *1 | 41 | 4 | 218 | 11 | 746 | 32 |
| Diseases of the respiratory system 460-519 | 3,403 | 129 | 632 | 72 | 396 | 18 | 653 | 29 | 1,721 | 73 |
| Acute bronchitis and bronchiolitis 466 | 219 | 17 | 136 | 16 | 14 | 2 | 20 | 4 | 49 | 6 |
| Pneumonia 480-486 | 1,328 | 56 | 211 | 21 | 131 | 8 | 226 | 14 | 760 | 36 |
| Chronic bronchitis 491 | 498 | 27 | * | * | 18 | 3 | 138 | 11 | 342 | 19 |
| Asthma 493 | 423 | 33 | 166 | 28 | 104 | 6 | 92 | 9 | 60 | 5 |
| Diseases of the digestive system 520-579 | 3,046 | 87 | 210 | 26 | 771 | 26 | 798 | 25 | 1,266 | 42 |
| Appendicitis 540-543 | 249 | 13 | 57 | 6 | 142 | 9 | 37 | 4 | 13 | 2 |
| Noninfectious enteritis and colitis 555-558 | 275 | 15 | 62 | 9 | 80 | 6 | 47 | 4 | 86 | 6 |
| Diverticula of intestine 562 | 230 | 11 | * | * | 19 | 2 | 67 | 5 | 144 | 9 |
| Cholelithiasis 574 | 358 | 16 | * | * | 120 | 8 | 100 | 7 | 136 | 8 |
| Diseases of the genitourinary system 580-629 | 1,720 | 78 | 70 | 9 | 577 | 29 | 419 | 19 | 653 | 41 |
| Calculus of kidney and ureter 592 | 177 | 16 | * | * | 81 | 8 | 63 | 6 | 30 | 4 |
| Complications of pregnancy, childbirth, and the puerperium ² 630-677 | 512 | 24 | * | * | 510 | 23 | * | * | ... | ... |
| Diseases of the skin and subcutaneous tissue 680-709 | 517 | 32 | 62 | 17 | 137 | 11 | 130 | 9 | 188 | 13 |
| Cellulitis and abscess 681-682 | 364 | 18 | 31 | 5 | 101 | 8 | 99 | 7 | 133 | 10 |
| Diseases of the musculoskeletal system and connective tissue 710-739 | 1,534 | 72 | 42 | 8 | 349 | 18 | 476 | 27 | 667 | 38 |
| Osteoarthritis and allied disorders 715 | 435 | 27 | * | * | 10 | 2 | 130 | 9 | 295 | 21 |
| Intervertebral disc disorders 722 | 352 | 22 | * | * | 158 | 12 | 140 | 11 | 53 | 5 |
| Congenital anomalies 740-759 | 197 | 32 | 136 | 28 | 33 | 5 | 20 | 3 | 8 | 2 |
| Certain conditions originating in the perinatal period 760-779 | 150 | 26 | 150 | 26 | * | * | * | * | * | * |
| Symptoms, signs, and ill-defined conditions 780-799 | 297 | 18 | 56 | 6 | 105 | 8 | 70 | 5 | 66 | 12 |
| Injury and poisoning 800-999 | 2,540 | 93 | 234 | 30 | 792 | 38 | 524 | 23 | 991 | 37 |
| Fractures, all sites ³ 800-829 | 966 | 43 | 76 | 8 | 231 | 13 | 151 | 12 | 508 | 24 |
| Fracture of neck of femur ³ 820 | 329 | 21 | * | * | 8 | 1 | 23 | 5 | 294 | 18 |
| Poisonings 960-989 | 198 | 13 | 23 | 4 | 122 | 11 | 32 | 3 | 21 | 2 |
| Supplementary classifications V01-V82 | 4,892 | 167 | 80 | 12 | 4,145 | 161 | 202 | 16 | 466 | 47 |
| Females with deliveries V27 | 4,000 | 159 | 7 | 1 | 3,990 | 159 | *3 | *1 | ... | ... |

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error.

²First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."

³Excludes fractures coded as 733.1, pathologic fracture.

Table 3. Rate of discharges from short-stay hospitals by age and first-listed diagnosis: United States, 1998

[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 ¹ | Rate | SE ¹ | Rate | SE ¹ | Rate | SE ¹ | Rate | SE ¹ |
| | Rate per 10,000 population | | | | | | | | | |
| All conditions | 1,165.3 | 34.8 | 383.4 | 43.8 | 850.6 | 25.5 | 1,173.0 | 38.7 | 3,652.7 | 129.0 |
| Infectious and parasitic diseases 001-139 | 31.7 | 1.6 | 29.6 | 4.0 | 17.1 | 1.0 | 25.3 | 1.5 | 98.3 | 5.5 |
| Septicemia 038 | 12.7 | 0.8 | 2.8 | 0.4 | 2.8 | 0.4 | 10.9 | 0.8 | 68.7 | 4.8 |
| Neoplasms 140-239 | 62.5 | 2.4 | 5.7 | 1.3 | 24.8 | 1.2 | 101.5 | 4.3 | 231.7 | 10.6 |
| Malignant neoplasms 140-208,230-234 | 46.4 | 1.9 | 3.9 | 0.9 | 10.2 | 0.7 | 71.9 | 3.1 | 207.7 | 10.0 |
| Malignant neoplasm of large intestine and rectum 153-154,197.5 | 6.2 | 0.4 | * | * | * | * | 7.2 | 0.7 | 35.2 | 2.6 |
| Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3 | 6.0 | 0.4 | * | * | 0.7 | 0.1 | 9.6 | 0.7 | 29.0 | 2.2 |
| Malignant neoplasm of breast 174-175,198.81 | 4.5 | 0.3 | * | * | 1.0 | 0.2 | 9.6 | 0.8 | 16.4 | 1.4 |
| Benign neoplasms 210-229 | 14.2 | 0.7 | * | * | 13.8 | 0.8 | 27.6 | 1.9 | 15.6 | 1.2 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279 | 48.8 | 1.7 | 23.1 | 2.5 | 22.3 | 1.1 | 57.7 | 2.7 | 173.6 | 6.9 |
| Diabetes mellitus 250 | 18.8 | 0.8 | 3.6 | 0.7 | 10.7 | 0.7 | 28.2 | 1.6 | 58.6 | 3.3 |
| Volume depletion 276.5 | 16.4 | 0.9 | 15.3 | 1.5 | 4.9 | 0.6 | 12.1 | 1.3 | 66.9 | 3.5 |
| Diseases of the blood and blood-forming organs 280-289 | 13.1 | 0.7 | 8.2 | 1.4 | 8.1 | 0.6 | 10.9 | 0.7 | 43.3 | 4.3 |
| Mental disorders 290-319 | 72.3 | 8.0 | 18.5 | 3.6 | 95.3 | 12.4 | 74.1 | 7.5 | 81.3 | 5.5 |
| Psychoses 290-299 | 45.9 | 5.1 | 7.8 | 2.0 | 58.3 | 7.8 | 46.8 | 5.1 | 67.2 | 4.8 |
| Alcohol dependence syndrome 303 | 6.5 | 1.0 | * | * | 9.2 | 1.5 | 9.5 | 1.6 | 3.2 | 0.7 |
| Diseases of the nervous system and sense organs 320-389 | 18.7 | 0.9 | 13.9 | 2.0 | 10.0 | 0.7 | 19.7 | 1.5 | 56.6 | 3.2 |
| Diseases of the circulatory system 390-459 | 229.6 | 8.8 | 5.0 | 1.0 | 32.4 | 1.3 | 307.1 | 13.2 | 1,200.6 | 47.8 |
| Heart disease 391-392.0,393-398,402,404,410-416,420-429 | 158.7 | 6.6 | 2.9 | 0.6 | 19.8 | 0.8 | 218.6 | 10.4 | 829.5 | 35.5 |
| Acute myocardial infarction 410 | 28.7 | 1.5 | * | * | 3.5 | 0.3 | 41.9 | 2.6 | 146.7 | 8.5 |
| Coronary atherosclerosis 414.0 | 40.1 | 2.7 | * | * | 3.9 | 0.3 | 74.9 | 5.5 | 181.3 | 12.5 |
| Other ischemic heart disease 411-413,414.1-414.9 | 11.3 | 0.9 | * | * | 1.7 | 0.2 | 20.2 | 1.7 | 50.4 | 5.0 |
| Cardiac dysrhythmias 427 | 24.5 | 1.0 | 0.9 | 0.3 | 3.9 | 0.3 | 26.9 | 1.5 | 135.9 | 5.9 |
| Congestive heart failure 428.0 | 35.8 | 1.5 | * | * | 2.1 | 0.2 | 30.7 | 2.1 | 226.7 | 9.6 |
| Cerebrovascular disease 430-438 | 37.0 | 1.5 | *0.8 | *0.2 | 3.4 | 0.3 | 38.2 | 2.0 | 218.7 | 9.3 |
| Diseases of the respiratory system 460-519 | 124.6 | 4.7 | 105.5 | 12.0 | 32.5 | 1.5 | 114.5 | 5.0 | 504.8 | 21.3 |
| Acute bronchitis and bronchiolitis 466 | 8.0 | 0.6 | 22.6 | 2.6 | 1.1 | 0.2 | 3.6 | 0.6 | 14.4 | 1.8 |
| Pneumonia 480-486 | 48.6 | 2.1 | 35.2 | 3.5 | 10.7 | 0.6 | 39.6 | 2.4 | 223.0 | 10.5 |
| Chronic bronchitis 491 | 18.2 | 1.0 | * | * | 1.4 | 0.3 | 24.2 | 1.9 | 100.2 | 5.7 |
| Asthma 493 | 15.5 | 1.2 | 27.7 | 4.6 | 8.6 | 0.5 | 16.2 | 1.6 | 17.7 | 1.6 |
| Diseases of the digestive system 520-579 | 111.5 | 3.2 | 35.0 | 4.3 | 63.2 | 2.1 | 139.8 | 4.3 | 371.3 | 12.2 |
| Appendicitis 540-543 | 9.1 | 0.5 | 9.5 | 1.0 | 11.6 | 0.8 | 6.5 | 0.7 | 3.8 | 0.6 |
| Noninfectious enteritis and colitis 555-558 | 10.1 | 0.6 | 10.3 | 1.6 | 6.6 | 0.5 | 8.2 | 0.7 | 25.3 | 1.7 |
| Diverticula of intestine 562 | 8.4 | 0.4 | * | * | 1.5 | 0.2 | 11.8 | 0.8 | 42.2 | 2.5 |
| Cholelithiasis 574 | 13.1 | 0.6 | * | * | 9.8 | 0.6 | 17.5 | 1.2 | 39.9 | 2.5 |
| Diseases of the genitourinary system 580-629 | 63.0 | 2.8 | 11.7 | 1.5 | 47.3 | 2.4 | 73.5 | 3.4 | 191.4 | 11.9 |
| Calculus of kidney and ureter 592 | 6.5 | 0.6 | * | * | 6.7 | 0.7 | 11.1 | 1.1 | 8.7 | 1.2 |
| Complications of pregnancy, childbirth, and the puerperium ² 630-677 | 18.8 | 0.9 | * | * | 41.8 | 1.9 | * | * | ... | ... |
| Diseases of the skin and subcutaneous tissue 680-709 | 18.9 | 1.2 | 10.4 | 2.9 | 11.2 | 0.9 | 22.7 | 1.6 | 55.2 | 3.8 |
| Cellulitis and abscess 681-682 | 13.3 | 0.7 | 5.1 | 0.8 | 8.3 | 0.6 | 17.4 | 1.2 | 39.1 | 3.0 |
| Diseases of the musculoskeletal system and connective tissue 710-739 | 56.2 | 2.6 | 6.9 | 1.3 | 28.6 | 1.5 | 83.4 | 4.7 | 195.6 | 11.1 |
| Osteoarthritis and allied disorders 715 | 15.9 | 1.0 | * | * | 0.8 | 0.1 | 22.8 | 1.7 | 86.4 | 6.1 |
| Intervertebral disc disorders 722 | 12.9 | 0.8 | * | * | 13.0 | 1.0 | 24.5 | 2.0 | 15.7 | 1.5 |
| Congenital anomalies 740-759 | 7.2 | 1.2 | 22.7 | 4.6 | 2.7 | 0.4 | 3.4 | 0.5 | 2.5 | 0.5 |
| Certain conditions originating in the perinatal period 760-779 | 5.5 | 0.9 | 25.1 | 4.3 | * | * | * | * | * | * |
| Symptoms, signs, and ill-defined conditions 780-799 | 10.9 | 0.7 | 9.4 | 1.0 | 8.6 | 0.6 | 12.2 | 1.0 | 19.3 | 3.4 |
| Injury and poisoning 800-999 | 93.0 | 3.4 | 39.0 | 5.0 | 64.9 | 3.1 | 91.7 | 4.0 | 290.6 | 10.9 |
| Fractures, all sites ³ 800-829 | 35.4 | 1.6 | 12.6 | 1.3 | 19.0 | 1.1 | 26.5 | 2.1 | 148.8 | 7.0 |
| Fracture of neck of femur ³ 820 | 12.0 | 0.8 | * | * | 0.6 | 0.1 | 4.1 | 0.8 | 86.3 | 5.3 |
| Poisonings 960-989 | 7.2 | 0.5 | 3.8 | 0.6 | 10.0 | 0.9 | 5.7 | 0.6 | 6.0 | 0.7 |
| Supplementary classifications V01-V82 | 179.1 | 6.1 | 13.3 | 2.0 | 339.8 | 13.2 | 35.4 | 2.8 | 136.6 | 13.9 |
| Females with deliveries V27 | 146.5 | 5.8 | 1.1 | 0.2 | 327.1 | 13.0 | *0.6 | *0.1 | ... | ... |

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error of rate.

²First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."

³Excludes 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, 1998

[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 ¹ | SE ² | ALOS ¹ | SE ² | ALOS ¹ | SE ² | ALOS ¹ | SE ² | ALOS ¹ | SE ² |
| All conditions | 5.1 | 0.1 | 4.6 | 0.2 | 3.7 | 0.1 | 5.1 | 0.1 | 6.2 | 0.1 |
| Infectious and parasitic diseases 001-139 | 6.3 | 0.2 | 3.8 | 0.6 | 6.4 | 0.5 | 7.3 | 0.4 | 7.1 | 0.2 |
| Septicemia 038 | 7.6 | 0.2 | 4.4 | 0.3 | 9.3 | 1.3 | 7.8 | 0.4 | 7.6 | 0.3 |
| Neoplasms 140-239 | 6.4 | 0.2 | 7.0 | 1.0 | 4.5 | 0.2 | 5.6 | 0.2 | 7.6 | 0.3 |
| Malignant neoplasms 140-208,230-234 | 7.2 | 0.2 | 8.8 | 0.9 | 6.3 | 0.4 | 6.5 | 0.2 | 7.7 | 0.3 |
| Malignant neoplasm of large intestine and rectum 153-154,197.5 | 8.8 | 0.3 | * | * | *9.0 | *1.1 | 7.4 | 0.3 | 9.2 | 0.4 |
| Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3 | 8.0 | 0.4 | * | * | 7.7 | 1.5 | 7.9 | 0.6 | 8.2 | 0.5 |
| Malignant neoplasm of breast 174-175,198.81 | 2.7 | 0.2 | * | * | 3.1 | 0.4 | 2.8 | 0.3 | 2.6 | 0.2 |
| Benign neoplasms 210-229 | 3.5 | 0.1 | 2.3 | 0.6 | 3.1 | 0.2 | 3.3 | 0.1 | 5.9 | 0.4 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279 | 4.8 | 0.1 | 3.3 | 0.5 | 4.6 | 0.5 | 4.6 | 0.2 | 5.3 | 0.1 |
| Diabetes mellitus 250 | 5.2 | 0.1 | 2.9 | 0.3 | 4.2 | 0.2 | 5.6 | 0.3 | 5.7 | 0.2 |
| Volume depletion 276.5 | 4.3 | 0.2 | 2.9 | 0.7 | 3.5 | 0.8 | 4.3 | 0.3 | 5.1 | 0.2 |
| Diseases of the blood and blood-forming organs 280-289 | 4.6 | 0.2 | 3.8 | 0.3 | 5.0 | 0.2 | 4.7 | 0.3 | 4.4 | 0.3 |
| Mental disorders 290-319 | 7.6 | 0.3 | 11.6 | 1.9 | 6.8 | 0.3 | 7.3 | 0.3 | 9.9 | 0.5 |
| Psychoses 290-299 | 8.7 | 0.3 | 11.5 | 2.1 | 7.8 | 0.4 | 8.8 | 0.4 | 10.7 | 0.6 |
| Alcohol dependence syndrome 303 | 5.7 | 0.5 | * | * | 5.6 | 0.6 | 5.9 | 0.7 | 6.6 | 0.9 |
| Diseases of the nervous system and sense organs 320-389 | 5.2 | 0.3 | 3.8 | 0.2 | 4.4 | 0.3 | 4.8 | 0.3 | 6.6 | 0.7 |
| Diseases of the circulatory system 390-459 | 5.2 | 0.1 | 6.9 | 1.7 | 4.3 | 0.2 | 4.8 | 0.1 | 5.4 | 0.1 |
| Heart disease 391-392.0,393-398,402,404,410-416,420-429 | 4.9 | 0.1 | 5.5 | 0.9 | 3.8 | 0.2 | 4.6 | 0.2 | 5.2 | 0.1 |
| Acute myocardial infarction 410 | 5.9 | 0.2 | * | * | 4.5 | 0.4 | 5.2 | 0.3 | 6.3 | 0.2 |
| Coronary atherosclerosis 414.0 | 4.1 | 0.1 | * | * | 3.0 | 0.2 | 3.6 | 0.1 | 4.5 | 0.2 |
| Other ischemic heart disease 411-413,414.1-414.9 | 3.2 | 0.2 | * | * | 2.2 | 0.2 | 3.4 | 0.6 | 3.1 | 0.2 |
| Cardiac dysrhythmias 427 | 4.0 | 0.2 | 2.6 | 0.4 | 2.9 | 0.6 | 3.6 | 0.6 | 4.2 | 0.1 |
| Congestive heart failure 428.0 | 5.9 | 0.2 | *3.8 | *0.4 | 5.1 | 0.4 | 6.4 | 0.7 | 5.8 | 0.2 |
| Cerebrovascular disease 430-438 | 5.9 | 0.3 | *5.6 | *1.0 | 6.4 | 0.6 | 6.0 | 0.2 | 5.9 | 0.4 |
| Diseases of the respiratory system 460-519 | 5.6 | 0.1 | 3.3 | 0.1 | 4.5 | 0.3 | 5.7 | 0.2 | 6.8 | 0.2 |
| Acute bronchitis and bronchiolitis 466 | 3.7 | 0.1 | 3.2 | 0.1 | 3.1 | 0.3 | 3.9 | 0.8 | 5.1 | 0.3 |
| Pneumonia 480-486 | 6.0 | 0.2 | 3.5 | 0.1 | 4.8 | 0.2 | 6.2 | 0.3 | 6.9 | 0.2 |
| Chronic bronchitis 491 | 5.8 | 0.2 | * | * | 6.2 | 1.7 | 5.7 | 0.8 | 5.9 | 0.1 |
| Asthma 493 | 3.3 | 0.1 | 2.3 | 0.1 | 3.2 | 0.1 | 3.8 | 0.1 | 5.4 | 0.6 |
| Diseases of the digestive system 520-579 | 4.8 | 0.1 | 3.6 | 0.2 | 3.8 | 0.1 | 4.8 | 0.2 | 5.7 | 0.2 |
| Appendicitis 540-543 | 3.5 | 0.1 | 3.8 | 0.3 | 2.9 | 0.1 | 4.3 | 0.3 | 6.6 | 0.5 |
| Noninfectious enteritis and colitis 555-558 | 4.3 | 0.2 | 2.5 | 0.2 | 3.9 | 0.2 | 4.3 | 0.3 | 5.8 | 0.5 |
| Diverticula of intestine 562 | 5.4 | 0.3 | * | * | * | * | 5.4 | 0.3 | 5.1 | 0.2 |
| Cholelithiasis 574 | 3.7 | 0.1 | * | * | 2.8 | 0.1 | 3.2 | 0.2 | 4.8 | 0.2 |
| Diseases of the genitourinary system 580-629 | 3.8 | 0.1 | 3.7 | 0.4 | 2.8 | 0.1 | 3.5 | 0.2 | 4.9 | 0.2 |
| Calculus of kidney and ureter 592 | 2.2 | 0.1 | * | * | 1.9 | 0.1 | 2.1 | 0.1 | 3.3 | 0.2 |
| Complications of pregnancy, childbirth, and the puerperium ³ 630-677 | 2.5 | 0.1 | * | * | 2.5 | 0.1 | * | * | ... | ... |
| Diseases of the skin and subcutaneous tissue 680-709 | 5.7 | 0.2 | 4.8 | 1.2 | 4.8 | 0.3 | 5.4 | 0.3 | 6.8 | 0.3 |
| Cellulitis and abscess 681-682 | 4.9 | 0.1 | 2.9 | 0.1 | 4.0 | 0.2 | 4.9 | 0.2 | 6.1 | 0.3 |
| Diseases of the musculoskeletal system and connective tissue 710-739 | 4.3 | 0.1 | 5.2 | 0.5 | 3.1 | 0.1 | 4.0 | 0.3 | 5.0 | 0.1 |
| Osteoarthritis and allied disorders 715 | 4.5 | 0.1 | * | * | 3.4 | 0.2 | 4.1 | 0.1 | 4.7 | 0.1 |
| Intervertebral disc disorders 722 | 2.9 | 0.1 | * | * | 2.5 | 0.1 | 2.6 | 0.2 | 4.6 | 0.3 |
| Congenital anomalies 740-759 | 4.9 | 0.3 | 5.2 | 0.4 | 3.6 | 0.3 | 5.0 | 0.9 | 5.6 | 1.0 |
| Certain conditions originating in the perinatal period 760-779 | 9.2 | 1.0 | 9.2 | 1.0 | * | * | * | * | * | * |
| Symptoms, signs, and ill-defined conditions 780-799 | 2.7 | 0.3 | 2.1 | 0.1 | 2.1 | 0.2 | 2.1 | 0.1 | 4.9 | 1.2 |
| Injury and poisoning 800-999 | 5.4 | 0.1 | 4.4 | 0.5 | 4.3 | 0.2 | 5.4 | 0.3 | 6.4 | 0.2 |
| Fractures, all sites ⁴ 800-829 | 5.8 | 0.2 | 3.5 | 0.4 | 4.8 | 0.3 | 5.4 | 0.4 | 6.6 | 0.2 |
| Fracture of neck of femur ⁴ 820 | 6.8 | 0.2 | * | * | 5.7 | 1.3 | 6.1 | 0.4 | 7.0 | 0.2 |
| Poisonings 960-989 | 3.0 | 0.4 | 1.8 | 0.2 | 2.5 | 0.1 | * | * | 4.0 | 0.6 |
| Supplementary classifications V01-V82 | 3.8 | 0.2 | 5.7 | 0.8 | 2.6 | 0.0 | 8.2 | 0.5 | 11.6 | 0.6 |
| Females with deliveries V27 | 2.5 | 0.0 | 2.2 | 0.2 | 2.5 | 0.0 | *3.0 | *0.3 | ... | ... |

* Figure does not meet standard of reliability or precision.
 ... Category not applicable.
 0.0 Quantity more than zero but less than 0.05.
¹ALOS is average length of stay.
²SE is standard error of average length of stay.
³First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."
⁴Excludes fractures coded as 733.1, pathologic fracture.

Table 5. Number of discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 1998[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 ¹ | Number | SE ¹ | Number | SE ¹ |
| | | | Number in thousands | | | |
| All conditions | 31,827 | 949 | 12,469 | 425 | 19,358 | 554 |
| Infectious and parasitic diseases 001-139 | 866 | 44 | 419 | 23 | 447 | 24 |
| Septicemia 038 | 347 | 22 | 154 | 10 | 194 | 14 |
| Neoplasms 140-239 | 1,706 | 66 | 644 | 31 | 1,062 | 40 |
| Malignant neoplasms 140-208,230-234 | 1,266 | 51 | 575 | 29 | 691 | 28 |
| Malignant neoplasm of large intestine and rectum 153-154,197.5 | 169 | 10 | 81 | 6 | 88 | 6 |
| Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3 | 165 | 10 | 95 | 7 | 69 | 5 |
| Malignant neoplasm of breast 174-175,198.81 | 124 | 7 | * | * | 123 | 7 |
| Benign neoplasms 210-229 | 389 | 20 | 44 | 4 | 345 | 18 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279 | 1,332 | 48 | 551 | 21 | 780 | 31 |
| Diabetes mellitus 250 | 513 | 22 | 251 | 12 | 261 | 14 |
| Volume depletion 276.5 | 448 | 23 | 170 | 10 | 278 | 17 |
| Diseases of the blood and blood-forming organs 280-289 | 358 | 19 | 155 | 14 | 203 | 9 |
| Mental disorders 290-319 | 1,974 | 217 | 1,015 | 116 | 958 | 104 |
| Psychoses 290-299 | 1,253 | 139 | 592 | 69 | 661 | 71 |
| Alcohol dependence syndrome 303 | 179 | 27 | 134 | 21 | 45 | 7 |
| Diseases of the nervous system and sense organs 320-389 | 511 | 26 | 224 | 14 | 287 | 16 |
| Diseases of the circulatory system 390-459 | 6,272 | 241 | 3,139 | 132 | 3,133 | 117 |
| Heart disease 391-392.0,393-398,402,404,410-416,420-429 | 4,335 | 180 | 2,242 | 101 | 2,093 | 86 |
| Acute myocardial infarction 410 | 783 | 41 | 463 | 25 | 320 | 18 |
| Coronary atherosclerosis 414.0 | 1,094 | 73 | 669 | 47 | 426 | 29 |
| Other ischemic heart disease 411-413,414.1-414.9 | 308 | 25 | 135 | 11 | 173 | 16 |
| Cardiac dysrhythmias 427 | 670 | 27 | 322 | 15 | 348 | 17 |
| Congestive heart failure 428.0 | 978 | 42 | 438 | 22 | 540 | 25 |
| Cerebrovascular disease 430-438 | 1,010 | 41 | 457 | 21 | 553 | 24 |
| Diseases of the respiratory system 460-519 | 3,403 | 129 | 1,574 | 60 | 1,829 | 75 |
| Acute bronchitis and bronchiolitis 466 | 219 | 17 | 109 | 9 | 110 | 10 |
| Pneumonia 480-486 | 1,328 | 56 | 638 | 30 | 690 | 31 |
| Chronic bronchitis 491 | 498 | 27 | 218 | 15 | 280 | 17 |
| Asthma 493 | 423 | 33 | 168 | 20 | 255 | 16 |
| Diseases of the digestive system 520-579 | 3,046 | 87 | 1,339 | 43 | 1,706 | 50 |
| Appendicitis 540-543 | 249 | 13 | 152 | 10 | 97 | 6 |
| Noninfectious enteritis and colitis 555-558 | 275 | 15 | 106 | 8 | 169 | 10 |
| Diverticula of intestine 562 | 230 | 11 | 91 | 6 | 139 | 8 |
| Cholelithiasis 574 | 358 | 16 | 105 | 6 | 253 | 13 |
| Diseases of the genitourinary system 580-629 | 1,720 | 78 | 534 | 39 | 1,186 | 45 |
| Calculus of kidney and ureter 592 | 177 | 16 | 103 | 12 | 74 | 6 |
| Complications of pregnancy, childbirth, and the puerperium ² 630-677 | 512 | 24 | ... | ... | 512 | 24 |
| Diseases of the skin and subcutaneous tissue 680-709 | 517 | 32 | 264 | 20 | 252 | 15 |
| Cellulitis and abscess 681-682 | 364 | 18 | 190 | 11 | 174 | 11 |
| Diseases of the musculoskeletal system and connective tissue 710-739 | 1,534 | 72 | 658 | 32 | 876 | 45 |
| Osteoarthritis and allied disorders 715 | 435 | 27 | 161 | 12 | 274 | 19 |
| Intervertebral disc disorders 722 | 352 | 22 | 187 | 14 | 165 | 11 |
| Congenital anomalies 740-759 | 197 | 32 | 115 | 20 | 82 | 13 |
| Certain conditions originating in the perinatal period 760-779 | 150 | 26 | 87 | 14 | 64 | 12 |
| Symptoms, signs, and ill-defined conditions 780-799 | 297 | 18 | 135 | 10 | 162 | 11 |
| Injury and poisoning 800-999 | 2,540 | 93 | 1,236 | 52 | 1,304 | 46 |
| Fractures, all sites ³ 800-829 | 966 | 43 | 414 | 23 | 552 | 25 |
| Fracture of neck of femur ³ 820 | 329 | 21 | 96 | 10 | 232 | 14 |
| Poisonings 960-989 | 198 | 13 | 86 | 9 | 112 | 7 |
| Supplementary classifications V01-V82 | 4,892 | 167 | 378 | 28 | 4,514 | 161 |
| Females with deliveries V27 | 4,000 | 159 | ... | ... | 4,000 | 159 |

* Figure does not meet standard of reliability or precision.

... Category not applicable.

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

Table 6. Rate of discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 1998

[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 ¹ | Rate | SE ¹ | Rate | SE ¹ |
| | Rate per 10,000 population | | | | | |
| All conditions | 1,165.3 | 34.8 | 934.7 | 31.9 | 1,385.3 | 39.7 |
| Infectious and parasitic diseases 001-139 | 31.7 | 1.6 | 31.4 | 1.7 | 32.0 | 1.7 |
| Septicemia 038 | 12.7 | 0.8 | 11.5 | 0.8 | 13.9 | 1.0 |
| Neoplasms 140-239 | 62.5 | 2.4 | 48.3 | 2.3 | 76.0 | 2.9 |
| Malignant neoplasms 140-208,230-234 | 46.4 | 1.9 | 43.1 | 2.2 | 49.5 | 2.0 |
| Malignant neoplasm of large intestine and rectum 153-154,197.5 | 6.2 | 0.4 | 6.1 | 0.5 | 6.3 | 0.4 |
| Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3 | 6.0 | 0.4 | 7.1 | 0.5 | 5.0 | 0.3 |
| Malignant neoplasm of breast 174-175,198.81 | 4.5 | 0.3 | * | * | 8.8 | 0.5 |
| Benign neoplasms 210-229 | 14.2 | 0.7 | 3.3 | 0.3 | 24.7 | 1.3 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279 | 48.8 | 1.7 | 41.3 | 1.6 | 55.8 | 2.2 |
| Diabetes mellitus 250 | 18.8 | 0.8 | 18.8 | 0.9 | 18.7 | 1.0 |
| Volume depletion 276.5 | 16.4 | 0.9 | 12.8 | 0.7 | 19.9 | 1.2 |
| Diseases of the blood and blood-forming organs 280-289 | 13.1 | 0.7 | 11.6 | 1.1 | 14.5 | 0.7 |
| Mental disorders 290-319 | 72.3 | 8.0 | 76.1 | 8.7 | 68.6 | 7.4 |
| Psychoses 290-299 | 45.9 | 5.1 | 44.4 | 5.2 | 47.3 | 5.1 |
| Alcohol dependence syndrome 303 | 6.5 | 1.0 | 10.0 | 1.6 | 3.2 | 0.5 |
| Diseases of the nervous system and sense organs 320-389 | 18.7 | 0.9 | 16.8 | 1.0 | 20.6 | 1.1 |
| Diseases of the circulatory system 390-459 | 229.6 | 8.8 | 235.3 | 9.9 | 224.2 | 8.4 |
| Heart disease 391-392.0,393-398,402,404,410-416,420-429 | 158.7 | 6.6 | 168.1 | 7.6 | 149.8 | 6.1 |
| Acute myocardial infarction 410 | 28.7 | 1.5 | 34.7 | 1.9 | 22.9 | 1.3 |
| Coronary atherosclerosis 414.0 | 40.1 | 2.7 | 50.1 | 3.5 | 30.5 | 2.0 |
| Other ischemic heart disease 411-413,414.1-414.9 | 11.3 | 0.9 | 10.1 | 0.8 | 12.4 | 1.2 |
| Cardiac dysrhythmias 427 | 24.5 | 1.0 | 24.1 | 1.1 | 24.9 | 1.2 |
| Congestive heart failure 428.0 | 35.8 | 1.5 | 32.8 | 1.7 | 38.6 | 1.8 |
| Cerebrovascular disease 430-438 | 37.0 | 1.5 | 34.2 | 1.6 | 39.6 | 1.7 |
| Diseases of the respiratory system 460-519 | 124.6 | 4.7 | 118.0 | 4.5 | 130.9 | 5.4 |
| Acute bronchitis and bronchiolitis 466 | 8.0 | 0.6 | 8.2 | 0.7 | 7.9 | 0.7 |
| Pneumonia 480-486 | 48.6 | 2.1 | 47.8 | 2.3 | 49.4 | 2.2 |
| Chronic bronchitis 491 | 18.2 | 1.0 | 16.4 | 1.1 | 20.1 | 1.2 |
| Asthma 493 | 15.5 | 1.2 | 12.6 | 1.5 | 18.3 | 1.2 |
| Diseases of the digestive system 520-579 | 111.5 | 3.2 | 100.4 | 3.2 | 122.1 | 3.6 |
| Appendicitis 540-543 | 9.1 | 0.5 | 11.4 | 0.7 | 6.9 | 0.5 |
| Noninfectious enteritis and colitis 555-558 | 10.1 | 0.6 | 8.0 | 0.6 | 12.1 | 0.7 |
| Diverticula of intestine 562 | 8.4 | 0.4 | 6.8 | 0.4 | 9.9 | 0.6 |
| Cholelithiasis 574 | 13.1 | 0.6 | 7.8 | 0.5 | 18.1 | 0.9 |
| Diseases of the genitourinary system 580-629 | 63.0 | 2.8 | 40.0 | 3.0 | 84.9 | 3.2 |
| Calculus of kidney and ureter 592 | 6.5 | 0.6 | 7.7 | 0.9 | 5.3 | 0.5 |
| Complications of pregnancy, childbirth, and the puerperium ² 630-677 | 18.8 | 0.9 | ... | ... | 36.7 | 1.7 |
| Diseases of the skin and subcutaneous tissue 680-709 | 18.9 | 1.2 | 19.8 | 1.5 | 18.1 | 1.1 |
| Cellulitis and abscess 681-682 | 13.3 | 0.7 | 14.3 | 0.9 | 12.4 | 0.8 |
| Diseases of the musculoskeletal system and connective tissue 710-739 | 56.2 | 2.6 | 49.4 | 2.4 | 62.7 | 3.2 |
| Osteoarthritis and allied disorders 715 | 15.9 | 1.0 | 12.1 | 0.9 | 19.6 | 1.4 |
| Intervertebral disc disorders 722 | 12.9 | 0.8 | 14.0 | 1.1 | 11.8 | 0.8 |
| Congenital anomalies 740-759 | 7.2 | 1.2 | 8.6 | 1.5 | 5.9 | 0.9 |
| Certain conditions originating in the perinatal period 760-779 | 5.5 | 0.9 | 6.5 | 1.1 | 4.6 | 0.8 |
| Symptoms, signs, and ill-defined conditions 780-799 | 10.9 | 0.7 | 10.1 | 0.7 | 11.6 | 0.8 |
| Injury and poisoning 800-999 | 93.0 | 3.4 | 92.7 | 3.9 | 93.3 | 3.3 |
| Fractures, all sites ³ 800-829 | 35.4 | 1.6 | 31.0 | 1.7 | 39.5 | 1.8 |
| Fracture of neck of femur ³ 820 | 12.0 | 0.8 | 7.2 | 0.7 | 16.6 | 1.0 |
| Poisonings 960-989 | 7.2 | 0.5 | 6.4 | 0.7 | 8.0 | 0.5 |
| Supplementary classifications V01-V82 | 179.1 | 6.1 | 28.4 | 2.1 | 323.0 | 11.5 |
| Females with deliveries V27 | 146.5 | 5.8 | ... | ... | 286.3 | 11.4 |

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error of rate.

²First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."

³Excludes 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, 1998[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 ¹ | SE ² | ALOS ¹ | SE ² | ALOS ¹ | SE ² |
| All conditions | 5.1 | 0.1 | 5.5 | 0.1 | 4.7 | 0.1 |
| Infectious and parasitic diseases 001-139 | 6.3 | 0.2 | 6.7 | 0.4 | 5.9 | 0.2 |
| Septicemia 038 | 7.6 | 0.2 | 7.9 | 0.3 | 7.4 | 0.3 |
| Neoplasms. 140-239 | 6.4 | 0.2 | 7.3 | 0.2 | 5.8 | 0.2 |
| Malignant neoplasms 140-208,230-234 | 7.2 | 0.2 | 7.5 | 0.2 | 7.0 | 0.3 |
| Malignant neoplasm of large intestine and rectum 153-154,197.5 | 8.8 | 0.3 | 8.5 | 0.4 | 9.0 | 0.4 |
| Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3 | 8.0 | 0.4 | 8.2 | 0.6 | 7.9 | 0.4 |
| Malignant neoplasm of breast 174-175,198.81 | 2.7 | 0.2 | * | * | 2.7 | 0.2 |
| Benign neoplasms. 210-229 | 3.5 | 0.1 | 4.9 | 0.3 | 3.4 | 0.1 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders. 240-279 | 4.8 | 0.1 | 5.0 | 0.3 | 4.6 | 0.1 |
| Diabetes mellitus 250 | 5.2 | 0.1 | 5.3 | 0.2 | 5.0 | 0.1 |
| Volume depletion 276.5 | 4.3 | 0.2 | 4.3 | 0.4 | 4.3 | 0.3 |
| Diseases of the blood and blood-forming organs 280-289 | 4.6 | 0.2 | 4.6 | 0.3 | 4.5 | 0.2 |
| Mental disorders 290-319 | 7.6 | 0.3 | 7.3 | 0.3 | 8.0 | 0.3 |
| Psychoses 290-299 | 8.7 | 0.3 | 8.3 | 0.3 | 9.0 | 0.4 |
| Alcohol dependence syndrome 303 | 5.7 | 0.5 | 5.8 | 0.5 | 5.5 | 0.6 |
| Diseases of the nervous system and sense organs. 320-389 | 5.2 | 0.3 | 5.1 | 0.2 | 5.3 | 0.4 |
| Diseases of the circulatory system 390-459 | 5.2 | 0.1 | 5.1 | 0.1 | 5.3 | 0.1 |
| Heart disease 391-392.0,393-398,402,404,410-416,420-429 | 4.9 | 0.1 | 4.8 | 0.1 | 5.1 | 0.1 |
| Acute myocardial infarction 410 | 5.9 | 0.2 | 5.7 | 0.2 | 6.1 | 0.2 |
| Coronary atherosclerosis 414.0 | 4.1 | 0.1 | 4.2 | 0.1 | 3.9 | 0.1 |
| Other ischemic heart disease 411-413,414.1-414.9 | 3.2 | 0.2 | 2.9 | 0.2 | 3.4 | 0.4 |
| Cardiac dysrhythmias 427 | 4.0 | 0.2 | 3.6 | 0.1 | 4.4 | 0.3 |
| Congestive heart failure 428.0 | 5.9 | 0.2 | 5.8 | 0.3 | 5.9 | 0.2 |
| Cerebrovascular disease. 430-438 | 5.9 | 0.3 | 5.4 | 0.2 | 6.4 | 0.6 |
| Diseases of the respiratory system 460-519 | 5.6 | 0.1 | 5.6 | 0.1 | 5.7 | 0.1 |
| Acute bronchitis and bronchiolitis 466 | 3.7 | 0.1 | 3.3 | 0.2 | 4.1 | 0.2 |
| Pneumonia 480-486 | 6.0 | 0.2 | 5.9 | 0.2 | 6.2 | 0.3 |
| Chronic bronchitis 491 | 5.8 | 0.2 | 5.7 | 0.2 | 5.9 | 0.4 |
| Asthma 493 | 3.3 | 0.1 | 2.7 | 0.1 | 3.7 | 0.2 |
| Diseases of the digestive system 520-579 | 4.8 | 0.1 | 4.7 | 0.1 | 4.9 | 0.1 |
| Appendicitis. 540-543 | 3.5 | 0.1 | 3.5 | 0.1 | 3.5 | 0.1 |
| Noninfectious enteritis and colitis 555-558 | 4.3 | 0.2 | 4.1 | 0.2 | 4.4 | 0.3 |
| Diverticula of intestine 562 | 5.4 | 0.3 | 5.5 | 0.6 | 5.4 | 0.2 |
| Cholelithiasis 574 | 3.7 | 0.1 | 4.3 | 0.2 | 3.4 | 0.1 |
| Diseases of the genitourinary system 580-629 | 3.8 | 0.1 | 4.2 | 0.2 | 3.6 | 0.1 |
| Calculus of kidney and ureter. 592 | 2.2 | 0.1 | 2.1 | 0.1 | 2.4 | 0.2 |
| Complications of pregnancy, childbirth, and the puerperium ³ 630-677 | 2.5 | 0.1 | ... | ... | 2.5 | 0.1 |
| Diseases of the skin and subcutaneous tissue. 680-709 | 5.7 | 0.2 | 5.7 | 0.3 | 5.7 | 0.2 |
| Cellulitis and abscess 681-682 | 4.9 | 0.1 | 4.6 | 0.2 | 5.3 | 0.2 |
| Diseases of the musculoskeletal system and connective tissue 710-739 | 4.3 | 0.1 | 4.1 | 0.2 | 4.3 | 0.1 |
| Osteoarthritis and allied disorders 715 | 4.5 | 0.1 | 4.4 | 0.1 | 4.5 | 0.1 |
| Intervertebral disc disorders 722 | 2.9 | 0.1 | 2.6 | 0.2 | 3.2 | 0.1 |
| Congenital anomalies 740-759 | 4.9 | 0.3 | 4.7 | 0.4 | 5.2 | 0.4 |
| Certain conditions originating in the perinatal period 760-779 | 9.2 | 1.0 | 9.2 | 1.2 | 9.1 | 1.1 |
| Symptoms, signs, and ill-defined conditions 780-799 | 2.7 | 0.3 | 2.5 | 0.3 | 3.0 | 0.5 |
| Injury and poisoning 800-999 | 5.4 | 0.1 | 5.3 | 0.2 | 5.4 | 0.1 |
| Fractures, all sites ⁴ 800-829 | 5.8 | 0.2 | 5.5 | 0.3 | 5.9 | 0.2 |
| Fracture of neck of femur ⁴ 820 | 6.8 | 0.2 | 7.5 | 0.5 | 6.6 | 0.2 |
| Poisonings 960-989 | 3.0 | 0.4 | 3.4 | 0.9 | 2.8 | 0.2 |
| Supplementary classifications V01-V82 | 3.8 | 0.2 | 9.8 | 0.6 | 3.2 | 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.

0.0 Quantity more than zero but less than 0.05.

¹ALOS is average length of stay.²SE is standard error of average length of stay.³First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."⁴Excludes 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, 1998

[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 ¹ | Number | SE ¹ | Number | SE ¹ | Number | SE ¹ | Number | SE ¹ |
| | Number in thousands | | | | | | | | | |
| All procedures | 41,500 | 1,595 | 2,002 | 285 | 14,495 | 535 | 9,764 | 446 | 15,240 | 666 |
| Operations on the nervous system01-05 | 1,062 | 69 | 209 | 38 | 360 | 31 | 227 | 17 | 265 | 18 |
| Spinal tap03.31 | 321 | 27 | 141 | 24 | 82 | 6 | 40 | 3 | 58 | 5 |
| Operations on the endocrine system06-07 | 96 | 6 | *3 | *1 | 31 | 3 | 41 | 4 | 22 | 3 |
| Operations on the eye08-16 | 122 | 18 | 11 | 3 | 28 | 5 | 28 | 6 | 55 | 10 |
| Operations on the ear18-20 | 57 | 10 | 31 | 8 | 10 | 2 | * | * | *5 | *1 |
| Operations on the nose, mouth, and pharynx21-29 | 288 | 22 | 66 | 12 | 101 | 9 | 58 | 6 | 62 | 7 |
| Operations on the respiratory system30-34 | 1,004 | 44 | 63 | 15 | 176 | 13 | 279 | 17 | 485 | 23 |
| Bronchoscopy with or without biopsy33.21-33.24,33.27 | 264 | 15 | 18 | 4 | 38 | 4 | 79 | 6 | 130 | 10 |
| Operations on the cardiovascular system35-39 | 5,791 | 310 | 171 | 37 | 547 | 29 | 2,033 | 126 | 3,040 | 168 |
| Removal of coronary artery obstruction and insertion of stent(s)36.0 | 926 | 78 | * | * | 60 | 7 | 410 | 38 | 456 | 41 |
| Coronary artery bypass graft ²36.1 | 553 | 41 | * | * | 14 | 2 | 234 | 19 | 304 | 24 |
| Cardiac catheterization37.21-37.23 | 1,202 | 89 | 11 | 3 | 91 | 7 | 503 | 41 | 597 | 47 |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 364 | 27 | * | * | *7 | *2 | 45 | 7 | 309 | 24 |
| Hemodialysis39.95 | 425 | 30 | * | * | 70 | 7 | 156 | 15 | 196 | 15 |
| Operations on the hemic and lymphatic system40-41 | 334 | 18 | 19 | 4 | 58 | 4 | 109 | 7 | 147 | 12 |
| Operations on the digestive system42-54 | 5,116 | 153 | 227 | 35 | 1,166 | 40 | 1,324 | 48 | 2,399 | 85 |
| Endoscopy of small intestine with or without biopsy45.11-45.14,45.16 | 892 | 34 | 16 | 4 | 127 | 8 | 216 | 11 | 533 | 23 |
| Endoscopy of large intestine with or without biopsy45.21-45.25 | 531 | 23 | 9 | 2 | 58 | 5 | 114 | 7 | 349 | 17 |
| Partial excision of large intestine45.7 | 242 | 12 | * | * | 27 | 3 | 65 | 5 | 146 | 8 |
| Appendectomy, excluding incidental47.0 | 278 | 13 | 64 | 6 | 158 | 9 | 40 | 4 | 16 | 2 |
| Cholecystectomy51.2 | 439 | 19 | * | * | 144 | 9 | 127 | 7 | 165 | 10 |
| Lysis of peritoneal adhesions54.5 | 310 | 14 | 6 | 2 | 136 | 8 | 84 | 5 | 84 | 6 |
| Operations on the urinary system55-59 | 946 | 48 | 45 | 9 | 207 | 12 | 296 | 19 | 398 | 23 |
| Cystoscopy with or without biopsy57.31-57.33 | 194 | 13 | 6 | 2 | 29 | 3 | 52 | 5 | 107 | 9 |
| Operations on the male genital organs60-64 | 298 | 22 | 25 | 3 | 14 | 3 | 64 | 6 | 195 | 18 |
| Prostatectomy60.2-60.6 | 203 | 18 | * | * | * | * | 48 | 5 | 154 | 16 |
| Operations on the female genital organs65-71 | 2,187 | 100 | 8 | 2 | 1,267 | 70 | 627 | 30 | 285 | 19 |
| Oophorectomy and salpingo-oophorectomy65.3-65.6 | 491 | 27 | * | * | 210 | 18 | 216 | 11 | 64 | 4 |
| Bilateral destruction or occlusion of fallopian tubes66.2-66.3 | 364 | 30 | * | * | 364 | 30 | * | * | * | * |
| Hysterectomy68.3-68.7,68.9 | 645 | 36 | * | * | 328 | 24 | 244 | 13 | 73 | 5 |
| Obstetrical procedures72-75 | 6,640 | 289 | 12 | 3 | 6,622 | 288 | *6 | *1 | ... | ... |
| Episiotomy with or without forceps or vacuum extraction72.1,72.21,72.31,72.71,73.6 | 1,220 | 67 | * | * | 1,217 | 67 | * | * | ... | ... |
| Artificial rupture of membranes73.0 | 815 | 64 | * | * | 813 | 64 | * | * | ... | ... |
| Cesarean section74.0-74.2,74.4,74.99 | 900 | 45 | * | * | 897 | 45 | * | * | ... | ... |
| Repair of current obstetric laceration75.5-75.6 | 1,093 | 48 | * | * | 1,091 | 47 | * | * | ... | ... |
| Operations on the musculoskeletal system76-84 | 3,257 | 150 | 175 | 24 | 923 | 51 | 915 | 48 | 1,244 | 64 |
| Partial excision of bone76.2-76.3,77.6-77.8 | 260 | 17 | 11 | 2 | 90 | 9 | 97 | 8 | 63 | 5 |
| Reduction of fracture76.7,79.0-79.3 | 610 | 32 | 54 | 6 | 191 | 14 | 118 | 10 | 248 | 14 |
| Open reduction of fracture with internal fixation79.3 | 416 | 23 | 17 | 3 | 127 | 9 | 88 | 8 | 184 | 11 |
| Excision or destruction of intervertebral disc80.5 | 312 | 22 | * | * | 136 | 11 | 131 | 11 | 44 | 5 |
| Total hip replacement81.51 | 160 | 12 | * | * | 9 | 2 | 46 | 4 | 106 | 9 |
| Total knee replacement81.54 | 266 | 17 | * | * | *5 | *2 | 81 | 7 | 180 | 12 |
| Operations on the integumentary system85-86 | 1,325 | 78 | * | * | 373 | 22 | 382 | 19 | 443 | 21 |
| Debridement of wound, infection, or burn86.22,86.28 | 335 | 19 | 19 | 4 | 92 | 8 | 96 | 8 | 128 | 8 |
| Miscellaneous diagnostic and therapeutic procedures87-99 | 12,977 | 863 | 810 | 123 | 2,611 | 207 | 3,362 | 226 | 6,195 | 420 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 986 | 96 | 43 | 8 | 217 | 28 | 239 | 25 | 487 | 47 |
| Arteriography and angiocardiology using contrast material88.4-88.5 | 1,961 | 137 | 18 | 4 | 167 | 11 | 794 | 65 | 981 | 70 |
| Diagnostic ultrasound88.7 | 1,123 | 104 | 48 | 12 | 214 | 22 | 277 | 28 | 584 | 58 |
| Respiratory therapy93.9,96.7 | 1,109 | 89 | 185 | 41 | 151 | 15 | 240 | 21 | 533 | 44 |
| Insertion of endotracheal tube96.04 | 399 | 18 | 34 | 7 | 60 | 5 | 92 | 6 | 214 | 11 |
| Injection or infusion of cancer chemotherapeutic substance99.25 | 254 | 20 | 41 | 8 | 56 | 7 | 84 | 9 | 74 | 7 |

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error.

²The number of discharges with a coronary artery bypass graft was 336,000.

Table 9. Rate of all-listed procedures for discharges from short-stay hospitals by procedure category and age: United States, 1998[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 | SE ¹ | Rate | SE ¹ | Rate | SE ¹ | Rate | SE ¹ | Rate | SE ¹ |
| | Rate per 10,000 population | | | | | | | | | |
| All procedures | 1,519.4 | 58.4 | 333.9 | 47.5 | 1,188.1 | 43.9 | 1,710.5 | 78.1 | 4,469.1 | 195.3 |
| Operations on the nervous system 01-05 | 38.9 | 2.5 | 34.9 | 6.3 | 29.5 | 2.6 | 39.8 | 2.9 | 77.6 | 5.2 |
| Spinal tap 03.31 | 11.8 | 1.0 | 23.6 | 4.0 | 6.7 | 0.5 | 7.0 | 0.6 | 17.1 | 1.6 |
| Operations on the endocrine system 06-07 | 3.5 | 0.2 | *0.4 | *0.1 | 2.5 | 0.2 | 7.1 | 0.6 | 6.4 | 1.0 |
| Operations on the eye 08-16 | 4.5 | 0.7 | 1.8 | 0.4 | 2.3 | 0.4 | 4.9 | 1.0 | 16.2 | 3.0 |
| Operations on the ear 18-20 | 2.1 | 0.4 | 5.2 | 1.3 | 0.8 | 0.1 | * | * | *1.5 | *0.4 |
| Operations on the nose, mouth, and pharynx 21-29 | 10.5 | 0.8 | 11.1 | 2.0 | 8.3 | 0.8 | 10.2 | 1.1 | 18.3 | 1.9 |
| Operations on the respiratory system 30-34 | 36.7 | 1.6 | 10.6 | 2.5 | 14.4 | 1.0 | 49.0 | 2.9 | 142.1 | 6.8 |
| Bronchoscopy with or without biopsy 33.21-33.24,33.27 | 9.7 | 0.6 | 3.0 | 0.7 | 3.1 | 0.3 | 13.8 | 1.1 | 38.1 | 2.8 |
| Operations on the cardiovascular system 35-39 | 212.0 | 11.3 | 28.5 | 6.2 | 44.9 | 2.4 | 356.2 | 22.1 | 891.5 | 49.3 |
| Removal of coronary artery obstruction and insertion of stent(s) 36.0 | 33.9 | 2.9 | * | * | 4.9 | 0.5 | 71.8 | 6.7 | 133.8 | 12.1 |
| Coronary artery bypass graft ² 36.1 | 20.3 | 1.5 | * | * | 1.2 | 0.2 | 41.0 | 3.4 | 89.3 | 7.1 |
| Cardiac catheterization 37.21-37.23 | 44.0 | 3.3 | 1.9 | 0.5 | 7.5 | 0.5 | 88.1 | 7.2 | 175.0 | 13.6 |
| Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8 | 13.3 | 1.0 | * | * | *0.6 | *0.1 | 7.9 | 1.2 | 90.7 | 7.1 |
| Hemodialysis 39.95 | 15.5 | 1.1 | * | * | 5.8 | 0.5 | 27.3 | 2.6 | 57.5 | 4.3 |
| Operations on the hemic and lymphatic system 40-41 | 12.2 | 0.7 | 3.2 | 0.7 | 4.8 | 0.3 | 19.2 | 1.2 | 43.1 | 3.5 |
| Operations on the digestive system 42-54 | 187.3 | 5.6 | 37.9 | 5.8 | 95.6 | 3.3 | 232.0 | 8.3 | 703.6 | 24.8 |
| Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16 | 32.7 | 1.2 | 2.7 | 0.6 | 10.4 | 0.7 | 37.8 | 1.9 | 156.4 | 6.9 |
| Endoscopy of large intestine with or without biopsy 45.21-45.25 | 19.4 | 0.8 | 1.5 | 0.4 | 4.8 | 0.4 | 20.0 | 1.3 | 102.5 | 4.9 |
| Partial excision of large intestine 45.7 | 8.9 | 0.4 | * | * | 2.2 | 0.3 | 11.5 | 0.9 | 42.9 | 2.4 |
| Appendectomy, excluding incidental 47.0 | 10.2 | 0.5 | 10.6 | 1.1 | 13.0 | 0.8 | 6.9 | 0.8 | 4.8 | 0.6 |
| Cholecystectomy 51.2 | 16.1 | 0.7 | * | * | 11.8 | 0.7 | 22.2 | 1.3 | 48.3 | 2.9 |
| Lysis of peritoneal adhesions 54.5 | 11.3 | 0.5 | 1.0 | 0.3 | 11.1 | 0.7 | 14.8 | 0.9 | 24.6 | 1.9 |
| Operations on the urinary system 55-59 | 34.6 | 1.7 | 7.5 | 1.5 | 17.0 | 1.0 | 51.9 | 3.4 | 116.6 | 6.8 |
| Cystoscopy with or without biopsy 57.31-57.33 | 7.1 | 0.5 | 1.1 | 0.3 | 2.4 | 0.2 | 9.0 | 0.9 | 31.3 | 2.6 |
| Operations on the male genital organs 60-64 | 10.9 | 0.8 | 4.1 | 0.5 | 1.2 | 0.3 | 11.3 | 1.1 | 57.1 | 5.2 |
| Prostatectomy 60.2-60.6 | 7.4 | 0.7 | * | * | * | * | 8.4 | 0.8 | 45.2 | 4.6 |
| Operations on the female genital organs 65-71 | 80.1 | 3.7 | 1.4 | 0.4 | 103.8 | 5.7 | 109.9 | 5.2 | 83.5 | 5.6 |
| Oophorectomy and salpingo-oophorectomy 65.3-65.6 | 18.0 | 1.0 | * | * | 17.2 | 1.5 | 37.9 | 2.0 | 18.8 | 1.3 |
| Bilateral destruction or occlusion of fallopian tubes 66.2-66.3 | 13.3 | 1.1 | * | * | 29.8 | 2.5 | * | * | * | * |
| Hysterectomy 68.3-68.7,68.9 | 23.6 | 1.3 | * | * | 26.9 | 2.0 | 42.8 | 2.3 | 21.3 | 1.5 |
| Obstetrical procedures 72-75 | 243.1 | 10.6 | 2.0 | 0.4 | 542.8 | 23.6 | *1.1 | *0.3 | ... | ... |
| Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6 | 44.7 | 2.5 | * | * | 99.8 | 5.5 | * | * | ... | ... |
| Artificial rupture of membranes 73.0 | 29.8 | 2.3 | * | * | 66.6 | 5.2 | * | * | ... | ... |
| Cesarean section 74.0-74.2,74.4,74.99 | 32.9 | 1.7 | * | * | 73.6 | 3.7 | * | * | ... | ... |
| Repair of current obstetric laceration 75.5-75.6 | 40.0 | 1.7 | * | * | 89.4 | 3.9 | * | * | ... | ... |
| Operations on the musculoskeletal system 76-84 | 119.3 | 5.5 | 29.2 | 4.0 | 75.7 | 4.2 | 160.3 | 8.4 | 364.8 | 18.9 |
| Partial excision of bone 76.2-76.3,77.6-77.8 | 9.5 | 0.6 | 1.8 | 0.3 | 7.4 | 0.7 | 16.9 | 1.4 | 18.5 | 1.5 |
| Reduction of fracture 76.7,79.0-79.3 | 22.3 | 1.2 | 9.0 | 0.9 | 15.6 | 1.1 | 20.6 | 1.7 | 72.6 | 4.1 |
| Open reduction of fracture with internal fixation 79.3 | 15.2 | 0.8 | 2.8 | 0.5 | 10.4 | 0.7 | 15.5 | 1.3 | 54.1 | 3.2 |
| Excision or destruction of intervertebral disc 80.5 | 11.4 | 0.8 | * | * | 11.1 | 0.9 | 23.0 | 1.9 | 13.0 | 1.4 |
| Total hip replacement 81.51 | 5.9 | 0.4 | * | * | 0.7 | 0.1 | 8.0 | 0.7 | 30.9 | 2.7 |
| Total knee replacement 81.54 | 9.7 | 0.6 | * | * | *0.4 | *0.1 | 14.2 | 1.3 | 52.7 | 3.4 |
| Operations on the integumentary system 85-86 | 48.5 | 2.9 | * | * | 30.6 | 1.8 | 66.9 | 3.3 | 129.9 | 6.1 |
| Debridement of wound, infection, or burn 86.22,86.28 | 12.3 | 0.7 | 3.1 | 0.6 | 7.6 | 0.6 | 16.8 | 1.4 | 37.5 | 2.3 |
| Miscellaneous diagnostic and therapeutic procedures 87-99 | 475.1 | 31.6 | 135.1 | 20.6 | 214.0 | 16.9 | 588.9 | 39.7 | 1,816.7 | 123.1 |
| Computerized axial tomography 87.03,87.41,87.71,88.01,88.38 | 36.1 | 3.5 | 7.2 | 1.4 | 17.8 | 2.3 | 41.9 | 4.3 | 142.8 | 13.8 |
| Arteriography and angiocardiology using contrast material 88.4-88.5 | 71.8 | 5.0 | 3.0 | 0.7 | 13.7 | 0.9 | 139.1 | 11.4 | 287.8 | 20.4 |
| Diagnostic ultrasound 88.7 | 41.1 | 3.8 | 7.9 | 2.1 | 17.6 | 1.8 | 48.5 | 4.9 | 171.3 | 17.2 |
| Respiratory therapy 93.9,96.7 | 40.6 | 3.3 | 30.8 | 6.8 | 12.4 | 1.2 | 42.1 | 3.7 | 156.4 | 12.8 |
| Insertion of endotracheal tube 96.04 | 14.6 | 0.6 | 5.6 | 1.2 | 4.9 | 0.4 | 16.1 | 1.0 | 62.8 | 3.2 |
| Injection or infusion of cancer chemotherapeutic substance 99.25 | 9.3 | 0.7 | 6.8 | 1.4 | 4.6 | 0.6 | 14.7 | 1.6 | 21.7 | 2.0 |

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error of rate.²The rate per 10,000 population of discharges with a coronary artery bypass graft was 12.3.

Table 10. Number of all-listed procedures for discharges from short-stay hospitals by procedure category and sex: United States, 1998[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 ¹ | Number | SE ¹ | Number | SE ¹ |
| | Number in thousands | | | | | |
| All procedures | 41,500 | 1,595 | 16,188 | 748 | 25,312 | 905 |
| Operations on the nervous system 01-05 | 1,062 | 69 | 485 | 33 | 577 | 43 |
| Spinal tap 03.31 | 321 | 27 | 157 | 14 | 164 | 15 |
| Operations on the endocrine system 06-07 | 96 | 6 | 32 | 4 | 64 | 5 |
| Operations on the eye 08-16 | 122 | 18 | 66 | 10 | 56 | 10 |
| Operations on the ear 18-20 | 57 | 10 | 34 | 6 | 23 | 5 |
| Operations on the nose, mouth, and pharynx 21-29 | 288 | 22 | 161 | 13 | 126 | 11 |
| Operations on the respiratory system 30-34 | 1,004 | 44 | 544 | 29 | 460 | 21 |
| Bronchoscopy with or without biopsy 33.21-33.24,33.27 | 264 | 15 | 145 | 9 | 119 | 8 |
| Operations on the cardiovascular system 35-39 | 5,791 | 310 | 3,364 | 191 | 2,427 | 127 |
| Removal of coronary artery obstruction and insertion of stent(s) 36.0 | 926 | 78 | 594 | 48 | 332 | 32 |
| Coronary artery bypass graft ² 36.1 | 553 | 41 | 396 | 30 | 158 | 14 |
| Cardiac catheterization 37.21-37.23 | 1,202 | 89 | 716 | 51 | 486 | 41 |
| Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8 | 364 | 27 | 178 | 16 | 185 | 15 |
| Hemodialysis 39.95 | 425 | 30 | 219 | 18 | 205 | 16 |
| Operations on the hemic and lymphatic system 40-41 | 334 | 18 | 166 | 11 | 167 | 9 |
| Operations on the digestive system 42-54 | 5,116 | 153 | 2,178 | 75 | 2,938 | 90 |
| Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16 | 892 | 34 | 414 | 19 | 478 | 20 |
| Endoscopy of large intestine with or without biopsy 45.21-45.25 | 531 | 23 | 215 | 11 | 316 | 17 |
| Partial excision of large intestine 45.7 | 242 | 12 | 112 | 7 | 130 | 8 |
| Appendectomy, excluding incidental 47.0 | 278 | 13 | 156 | 9 | 122 | 7 |
| Cholecystectomy 51.2 | 439 | 19 | 128 | 7 | 311 | 16 |
| Lysis of peritoneal adhesions 54.5 | 310 | 14 | 59 | 5 | 250 | 13 |
| Operations on the urinary system 55-59 | 946 | 48 | 470 | 31 | 476 | 24 |
| Cystoscopy with or without biopsy 57.31-57.33 | 194 | 13 | 121 | 10 | 73 | 7 |
| Operations on the male genital organs 60-64 | 298 | 22 | 298 | 22 | ... | ... |
| Prostatectomy 60.2-60.6 | 203 | 18 | 203 | 18 | ... | ... |
| Operations on the female genital organs 65-71 | 2,187 | 100 | ... | ... | 2,187 | 100 |
| Oophorectomy and salpingo-oophorectomy 65.3-65.6 | 491 | 27 | ... | ... | 491 | 27 |
| Bilateral destruction or occlusion of fallopian tubes 66.2-66.3 | 364 | 30 | ... | ... | 364 | 30 |
| Hysterectomy 68.3-68.7,68.9 | 645 | 36 | ... | ... | 645 | 36 |
| Obstetrical procedures 72-75 | 6,640 | 289 | ... | ... | 6,640 | 289 |
| Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6 | 1,220 | 67 | ... | ... | 1,220 | 67 |
| Artificial rupture of membranes 73.0 | 815 | 64 | ... | ... | 815 | 64 |
| Cesarean section 74.0-74.2,74.4,74.99 | 900 | 45 | ... | ... | 900 | 45 |
| Repair of current obstetric laceration 75.5-75.6 | 1,093 | 48 | ... | ... | 1,093 | 48 |
| Operations on the musculoskeletal system 76-84 | 3,257 | 150 | 1,552 | 73 | 1,705 | 82 |
| Partial excision of bone 76.2-76.3,77.6-77.8 | 260 | 17 | 130 | 9 | 130 | 11 |
| Reduction of fracture 76.7,79.0-79.3 | 610 | 32 | 282 | 18 | 328 | 17 |
| Open reduction of fracture with internal fixation 79.3 | 416 | 23 | 177 | 12 | 239 | 14 |
| Excision or destruction of intervertebral disc 80.5 | 312 | 22 | 163 | 13 | 149 | 11 |
| Total hip replacement 81.51 | 160 | 12 | 68 | 6 | 92 | 7 |
| Total knee replacement 81.54 | 266 | 17 | 99 | 8 | 167 | 12 |
| Operations on the integumentary system 85-86 | 1,325 | 78 | 577 | 42 | 748 | 41 |
| Debridement of wound, infection, or burn 86.22,86.28 | 335 | 19 | 195 | 12 | 140 | 9 |
| Miscellaneous diagnostic and therapeutic procedures 87-99 | 12,977 | 863 | 6,261 | 422 | 6,716 | 449 |
| Computerized axial tomography 87.03,87.41,87.71,88.01,88.38 | 986 | 96 | 462 | 47 | 524 | 51 |
| Arteriography and angiocardiology using contrast material 88.4-88.5 | 1,961 | 137 | 1,115 | 79 | 845 | 62 |
| Diagnostic ultrasound 88.7 | 1,123 | 104 | 488 | 48 | 635 | 59 |
| Respiratory therapy 93.9,96.7 | 1,109 | 89 | 564 | 46 | 545 | 47 |
| Insertion of endotracheal tube 96.04 | 399 | 18 | 200 | 11 | 199 | 9 |
| Injection or infusion of cancer chemotherapeutic substance 99.25 | 254 | 20 | 121 | 11 | 134 | 11 |

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error.²The number of discharges with a coronary artery bypass graft was 336,000.

Table 11. Rate of all-listed procedures for discharges from short-stay hospitals by procedure category and sex: United States, 1998[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 ¹ | Rate | SE ¹ | Rate | SE ¹ |
| | Rate per 10,000 population | | | | | |
| All procedures | 1,519.4 | 58.4 | 1,213.6 | 56.1 | 1,811.5 | 64.7 |
| Operations on the nervous system 01-05 | 38.9 | 2.5 | 36.4 | 2.4 | 41.3 | 3.0 |
| Spinal tap 03.31 | 11.8 | 1.0 | 11.8 | 1.1 | 11.8 | 1.1 |
| Operations on the endocrine system 06-07 | 3.5 | 0.2 | 2.4 | 0.3 | 4.6 | 0.3 |
| Operations on the eye 08-16 | 4.5 | 0.7 | 5.0 | 0.8 | 4.0 | 0.7 |
| Operations on the ear 18-20 | 2.1 | 0.4 | 2.6 | 0.5 | 1.7 | 0.4 |
| Operations on the nose, mouth, and pharynx 21-29 | 10.5 | 0.8 | 12.1 | 1.0 | 9.0 | 0.8 |
| Operations on the respiratory system 30-34 | 36.7 | 1.6 | 40.8 | 2.2 | 32.9 | 1.5 |
| Bronchoscopy with or without biopsy 33.21-33.24,33.27 | 9.7 | 0.6 | 10.9 | 0.7 | 8.5 | 0.6 |
| Operations on the cardiovascular system 35-39 | 212.0 | 11.3 | 252.2 | 14.3 | 173.7 | 9.1 |
| Removal of coronary artery obstruction and insertion of stent(s) 36.0 | 33.9 | 2.9 | 44.5 | 3.6 | 23.7 | 2.3 |
| Coronary artery bypass graft ² 36.1 | 20.3 | 1.5 | 29.7 | 2.3 | 11.3 | 1.0 |
| Cardiac catheterization 37.21-37.23 | 44.0 | 3.3 | 53.7 | 3.8 | 34.8 | 2.9 |
| Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8 | 13.3 | 1.0 | 13.4 | 1.2 | 13.3 | 1.1 |
| Hemodialysis 39.95 | 15.5 | 1.1 | 16.4 | 1.4 | 14.7 | 1.1 |
| Operations on the hemic and lymphatic system 40-41 | 12.2 | 0.7 | 12.5 | 0.9 | 12.0 | 0.7 |
| Operations on the digestive system 42-54 | 187.3 | 5.6 | 163.3 | 5.6 | 210.3 | 6.4 |
| Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16 | 32.7 | 1.2 | 31.0 | 1.4 | 34.2 | 1.4 |
| Endoscopy of large intestine with or without biopsy 45.21-45.25 | 19.4 | 0.8 | 16.1 | 0.8 | 22.6 | 1.2 |
| Partial excision of large intestine 45.7 | 8.9 | 0.4 | 8.4 | 0.5 | 9.3 | 0.6 |
| Appendectomy, excluding incidental 47.0 | 10.2 | 0.5 | 11.7 | 0.7 | 8.7 | 0.5 |
| Cholecystectomy 51.2 | 16.1 | 0.7 | 9.6 | 0.5 | 22.3 | 1.2 |
| Lysis of peritoneal adhesions 54.5 | 11.3 | 0.5 | 4.4 | 0.3 | 17.9 | 0.9 |
| Operations on the urinary system 55-59 | 34.6 | 1.7 | 35.2 | 2.3 | 34.1 | 1.7 |
| Cystoscopy with or without biopsy 57.31-57.33 | 7.1 | 0.5 | 9.1 | 0.8 | 5.2 | 0.5 |
| Operations on the male genital organs 60-64 | 10.9 | 0.8 | 22.3 | 1.7 | ... | ... |
| Prostatectomy 60.2-60.6 | 7.4 | 0.7 | 15.2 | 1.4 | ... | ... |
| Operations on the female genital organs 65-71 | 80.1 | 3.7 | ... | ... | 156.5 | 7.2 |
| Oophorectomy and salpingo-oophorectomy 65.3-65.6 | 18.0 | 1.0 | ... | ... | 35.2 | 2.0 |
| Bilateral destruction or occlusion of fallopian tubes 66.2-66.3 | 13.3 | 1.1 | ... | ... | 26.1 | 2.2 |
| Hysterectomy 68.3-68.7,68.9 | 23.6 | 1.3 | ... | ... | 46.2 | 2.5 |
| Obstetrical procedures 72-75 | 243.1 | 10.6 | ... | ... | 475.2 | 20.7 |
| Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6 | 44.7 | 2.5 | ... | ... | 87.3 | 4.8 |
| Artificial rupture of membranes 73.0 | 29.8 | 2.3 | ... | ... | 58.3 | 4.6 |
| Cesarean section 74.0-74.2,74.4,74.99 | 32.9 | 1.7 | ... | ... | 64.4 | 3.3 |
| Repair of current obstetric laceration 75.5-75.6 | 40.0 | 1.7 | ... | ... | 78.2 | 3.4 |
| Operations on the musculoskeletal system 76-84 | 119.3 | 5.5 | 116.3 | 5.5 | 122.1 | 5.9 |
| Partial excision of bone 76.2-76.3,77.6-77.8 | 9.5 | 0.6 | 9.8 | 0.7 | 9.3 | 0.8 |
| Reduction of fracture 76.7,79.0-79.3 | 22.3 | 1.2 | 21.2 | 1.3 | 23.5 | 1.2 |
| Open reduction of fracture with internal fixation 79.3 | 15.2 | 0.8 | 13.3 | 0.9 | 17.1 | 1.0 |
| Excision or destruction of intervertebral disc 80.5 | 11.4 | 0.8 | 12.2 | 1.0 | 10.7 | 0.8 |
| Total hip replacement 81.51 | 5.9 | 0.4 | 5.1 | 0.5 | 6.6 | 0.5 |
| Total knee replacement 81.54 | 9.7 | 0.6 | 7.4 | 0.6 | 12.0 | 0.9 |
| Operations on the integumentary system 85-86 | 48.5 | 2.9 | 43.3 | 3.1 | 53.5 | 2.9 |
| Debridement of wound, infection, or burn 86.22,86.28 | 12.3 | 0.7 | 14.6 | 0.9 | 10.0 | 0.6 |
| Miscellaneous diagnostic and therapeutic procedures 87-99 | 475.1 | 31.6 | 469.4 | 31.6 | 480.7 | 32.1 |
| Computerized axial tomography 87.03,87.41,87.71,88.01,88.38 | 36.1 | 3.5 | 34.7 | 3.5 | 37.5 | 3.7 |
| Arteriography and angiocardiology using contrast material 88.4-88.5 | 71.8 | 5.0 | 83.6 | 5.9 | 60.5 | 4.4 |
| Diagnostic ultrasound 88.7 | 41.1 | 3.8 | 36.6 | 3.6 | 45.4 | 4.2 |
| Respiratory therapy 93.9,96.7 | 40.6 | 3.3 | 42.3 | 3.4 | 39.0 | 3.3 |
| Insertion of endotracheal tube 96.04 | 14.6 | 0.6 | 15.0 | 0.8 | 14.2 | 0.7 |
| Injection or infusion of cancer chemotherapeutic substance 99.25 | 9.3 | 0.7 | 9.0 | 0.8 | 9.6 | 0.8 |

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error of rate.²The rate per 10,000 population of discharges with a coronary artery bypass graft was 12.3.

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