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National Hospital Discharge Survey: Annual Summary, 1992

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No. 119

This report presents statistics on the utilization of non-Federal short-stay hospitals based on data collected through the National Hospital Discharge Survey from a national sample of the hospital records of discharged inpatients. Estimates are provided by the demographic characteristics of patients discharged, geographic region of hospitals, conditions diagnosed, and surgical and nonsurgical procedures performed. Measurements of hospital use include frequency, rate and percent of discharges and days of care, and average length of stay.

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Cooperation of the U.S. Bureau of the Census

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

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

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Symbols

- Data not available
 - . . . Category not applicable
 - Quantity zero
 - 0.0 Quantity more than zero but less than 0.05
 - Z Quantity more than zero but less than 500 where numbers are rounded to thousands
 - * Figure does not meet standard of reliability or precision
-

National Hospital Discharge Survey

by Edmund J. Graves,
Division of Health Care Statistics

Introduction

This report provides national estimates of the use of non-Federal short-stay hospitals during 1992. Detailed tables present data for selected demographic characteristics of discharged patients, the geographic region of the hospital where patients were treated, conditions diagnosed, and surgical and nonsurgical procedures performed. Text tables show information on special topics including trends, the elderly, patients with human immunodeficiency virus (HIV) diagnoses, hospital deaths, and newborn infants.

The statistics in this report are based on data collected by means of the National Hospital Discharge Survey (NHDS), a continuous survey that has been conducted by the National Center for Health Statistics (NCHS) since 1965. The data for the survey come from a sample of inpatient records that are obtained from a national sample of non-Federal general and short-stay specialty hospitals located in the United States. Approximately 274,000 medical records from 494 participating hospitals were included in the 1992 survey.

The original universe for the survey consisted of 6,965 short-stay hospitals contained in the 1963 National Master Facility Inventory of Hospitals. The universe was updated periodically from lists of hospitals provided by the American Hospital Association. A description of the development and design of the original NHDS, which was in operation from 1965 through 1987, has been published (1).

Beginning in 1988, the NHDS was redesigned in order to link it with other surveys conducted by NCHS and to improve efficiency through the use of information and technologies that were not available when the survey was first designed in 1964. Differences between NHDS statistics based on the 1965-87 sample and statistics based on the new sample may be due to sample design rather than to real changes in hospital use patterns.

This report was prepared in the Division of Health Statistics. Jean Kozak of the Hospital Care Statistics Branch assisted in developing the style and content. Elaine Wood, also of the Division of Health Statistics, verified the data. Michael Monsour of the Technical Services Branch produced estimates of reliability. Charles Adams, Malcolm Graham, and Dorothy Graham, also of the Technical Services Branch, did the computer programming. This report was edited by Klaudia Cox and typeset by Annette Facemire of the Publications Branch, Division of Data Services.

The redesigned survey was based on a new three-stage stratified sample that came from hospitals contained in the April 1987 SMG Hospital Market Database (2). Only hospitals accepting inpatients by August 1987 were included. In 1991 the sampling frame was updated to include hospitals from the 1991 SMG Hospital Database (3). The definition of hospitals in the NHDS was modified slightly in the redesign. Prior to 1988, hospitals with an average length of stay of 30 days or more were excluded. Beginning in 1988, general medical and surgical and children's general hospitals were included regardless of the overall average length of stay of the inpatient population. However, the term "short-stay" will continue to be used because 98 percent of hospitals in the NHDS universe fall into this category. A description of the new design, data collection procedures, and estimation process can be found in appendix I.

Types of measurements shown are frequencies, rates, and percent distributions of discharges and days of care, and average lengths of stay. The estimates are presented by age, sex, race, and expected source of payment of the patients discharged, and by geographic region of the hospitals (tables 1-4). Statistics on women with deliveries (table 5), conditions diagnosed (tables 6-21), and procedures performed (tables 22-29) are also shown by patient and hospital characteristics. Data for newborn infants are included only in the section titled "Newborn infants." Because these data are based on a sample, they may not agree with data on births published in *Vital Statistics of the United States*.

Medical data for hospitalized patients are coded according to the *International Classification of Diseases, 9th Revision, Clinical Modification*, or ICD-9-CM (4). A maximum of seven diagnoses and four procedures were coded for each medical record in the sample. Although diagnoses included in the ICD-9-CM section titled "Supplementary classification of external causes of injury and poisoning" (coded E800-E999) are collected in the NHDS, these diagnoses are excluded from the report. The conditions diagnosed and procedures performed are presented by major diagnostic and procedure groups of the ICD-9-CM. Within these groups, some specific categories were selected for presentation because of large frequencies or because they are of special interest. More detailed data are presented in other reports in Series 13 of the *Vital and Health Statistics* reports.

Familiarity with the definitions used in NHDS is important for interpreting the data and for making comparisons with

statistical data on short-stay hospital utilization that are available from other sources. Definitions of the terms used in this report are presented in appendix II.

Information on short-stay hospital utilization is also collected through the National Health Interview Survey (NHIS),

conducted by NCHS. Estimates from this survey generally differ from those from NHDS because of differences in data collection procedures, populations sampled, and definitions. Data from the NHIS are published in Series 10 of the *Vital and Health Statistics* reports.

Highlights

- During 1992, an estimated 31.0 million patients, excluding newborn infants, were discharged from non-Federal short-stay hospitals. These patients used an estimated 190.4 million days of care.
- Of all patients discharged from short-stay hospitals, 19 percent were 75 years of age and over.
- Private insurance was the expected principal source of payment for 33 percent of patients discharged during 1992, and 35 percent had Medicare as their expected source of payment.
- Approximately half of the days of care were used by patients with Medicare as their expected source of payment.
- Deliveries and heart disease were leading causes of hospitalization during 1992. These two diagnoses each accounted for 3.9 million discharges, and together made up 25 percent of all first-listed diagnoses.
- Approximately 23 percent of patients 65 years of age and over discharged from short-stay hospitals had been admitted for heart disease.
- At least one procedure was performed on 66 percent of patients discharged from short-stay hospitals in 1992.
- Four obstetrical procedures (episiotomy, cesarean section, repair of current obstetric laceration, and artificial rupture of membranes) accounted for 17 percent of the surgical procedures performed on hospital inpatients.
- Four nonsurgical procedures were performed more than 1 million times: arteriography and angiocardiology using contrast material (1.8 million), diagnostic ultrasound (1.5 million), computerized axial tomography (1.3 million), and fetal EKG and fetal monitoring (1.2 million).
- Approximately 14 percent of all surgical procedures and 21 percent of all nonsurgical procedures were performed on patients 75 years of age and over.
- In 1984, 10,000 patients with HIV diagnoses were discharged from short-stay hospitals. By 1992, this number had increased to 194,000.
- In the 1990–92 period, 78 percent of patients with HIV were male, three-fourths were 25–44 years of age, 45 percent were white patients, and 40 percent were hospitalized in the Northeast.
- In 1992, 2.7 percent of patients discharged from short-stay hospitals were discharged dead.
- Approximately 18 percent of hospitalized patients had first-listed diagnoses of heart disease or malignant neoplasm, but 40 percent of the deaths that occurred in short-stay hospitals were the result of either of these two diseases.

Trends

In 1992 an estimated 30,951,000 inpatients were discharged from short-stay hospitals (table A). These patients used a total of 190,386,000 days of care and had an average length of stay of 6.2 days. The number and rate of discharges and days of care for short-stay hospitals generally increased from 1965 through the 1970's, but declined during the 1980's. However, since 1988 the number of discharges and days of care have not changed significantly. In 1988 and 1992 there were approximately 31.1 and 31.0 million discharges respectively, and the number of days of care was 203.7 million in 1988 compared to 190.4 million in 1992. The average length

of stay has gradually declined since 1965. The 1992 average stay was 1.6 days (21 percent) shorter than the average stay in 1965.

Hospital use measures are shown by age for 1990, 1991, and 1992 in table B. During these three years, 36–38 percent of patients discharged from short-stay hospitals were 15–44 years of age and 33–35 percent were 65 years of age. Patients 75 years of age and over made up 18–19 percent of total discharges, and they used 26–27 percent of total days of care. All patients 65 years of age and over accounted for 45–47 percent of total days of care.

Table A. Selected measures of short-stay hospital utilization: United States, selected years 1965–92

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

| <i>Measure of utilization</i> | 1965 | 1970 | 1975 | 1980 | 1985 | 1990 | 1992 |
|---|---------|---------|---------|---------|---------|---------|---------|
| Number of discharges in thousands | 28,792 | 29,127 | 34,043 | 37,832 | 35,056 | 30,788 | 30,951 |
| Rate of discharges per 1,000 population | 150.3 | 144.3 | 159.2 | 167.7 | 147.9 | 123.5 | 122.1 |
| Number of days of care in thousands | 225,011 | 226,445 | 262,389 | 274,508 | 226,217 | 197,422 | 190,386 |
| Rate of days of care per 1,000 population | 1,174.3 | 1,121.6 | 1,227.3 | 1,217.0 | 954.4 | 791.7 | 751.0 |
| Average length of stay in days | 7.8 | 7.8 | 7.7 | 7.3 | 6.5 | 6.4 | 6.2 |

Table B. Number and rate of patients discharged from short-stay hospitals and of days of care, and average length of stay, by age: United States, 1990-92

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

| <i>Age</i> | <i>1990</i> | <i>1991</i> | <i>1992</i> |
|-----------------------------|-------------|---|-------------|
| | | Number of discharges in thousands | |
| All ages | 30,788 | 31,098 | 30,951 |
| Under 15 years | 2,412 | 2,498 | 2,531 |
| 15-44 years | 11,799 | 11,620 | 11,227 |
| 45-64 years | 6,244 | 6,173 | 6,329 |
| 65 years and over | 10,333 | 10,806 | 10,864 |
| 65-74 years | 4,689 | 4,830 | 4,883 |
| 75 years and over | 5,644 | 5,976 | 5,981 |
| | | Rate of discharges per 1,000 population | |
| All ages | 123.5 | 124.1 | 122.1 |
| Under 15 years | 43.9 | 45.3 | 45.2 |
| 15-44 years | 101.7 | 99.3 | 96.0 |
| 45-64 years | 133.1 | 132.2 | 131.0 |
| 65 years and over | 327.1 | 340.3 | 336.5 |
| 65-74 years | 253.9 | 264.2 | 264.5 |
| 75 years and over | 430.0 | 443.5 | 432.6 |
| | | Number of days of care in thousands | |
| All ages | 197,422 | 199,099 | 190,386 |
| Under 15 years | 11,655 | 12,037 | 12,289 |
| 15-44 years | 54,062 | 54,020 | 48,660 |
| 45-64 years | 42,153 | 40,100 | 39,952 |
| 65 years and over | 89,552 | 92,942 | 89,484 |
| 65-74 years | 37,422 | 38,949 | 37,675 |
| 75 years and over | 52,131 | 53,992 | 51,809 |
| | | Rate of days of care per 1,000 population | |
| All ages | 791.7 | 794.6 | 751.0 |
| Under 15 years | 212.4 | 218.3 | 219.6 |
| 15-44 years | 466.2 | 461.8 | 416.1 |
| 45-64 years | 898.2 | 858.5 | 827.1 |
| 65 years and over | 2,834.6 | 2,927.0 | 2,771.7 |
| 65-74 years | 2,026.3 | 2,130.7 | 2,040.8 |
| 75 years and over | 3,972.2 | 4,007.2 | 3,747.8 |
| | | Average length of stay in days | |
| All ages | 6.4 | 6.4 | 6.2 |
| Under 15 years | 4.8 | 4.8 | 4.9 |
| 15-44 years | 4.6 | 4.6 | 4.3 |
| 45-64 years | 6.8 | 6.5 | 6.3 |
| 65 years and over | 8.7 | 8.6 | 8.2 |
| 65-74 years | 8.0 | 8.1 | 7.7 |
| 75 years and over | 9.2 | 9.0 | 8.7 |

Diagnoses

Hospital use measures for selected first-listed diagnostic categories are shown in table C. The categories shown accounted for more than half of the discharges and days of care in short-stay hospitals in 1992.

Patients with first-listed diagnoses of heart disease accounted for 3,935,000 discharges, which was 12.7 percent of total discharges. These patients had an average length of stay of 6.7 days and used 13.8 percent of total days of care. Acute myocardial infarction, coronary atherosclerosis, and other ischemic heart disease were the first-listed diagnoses for 50 percent of the heart disease discharges. Other major heart disease diagnoses were congestive heart failure and cardiac dysrhythmia.

An estimated 3,910,000 discharged patients were females hospitalized for deliveries. Females with deliveries made up 12.6 percent of all discharges in 1992. However, because of their short average length of stay (2.6 days), they used only 5.3 percent of inpatient days of care.

Malignant neoplasms were the first-listed diagnoses for 1,577,000 patients discharged or 5.1 percent of total discharges. The average length of stay for patients discharged with malignant neoplasms was 8.5 days in 1992; they used 7.1 percent of the total days of care. Specific malignant neoplasms that frequently led to hospitalization included malignant neoplasm of trachea, bronchus, and lung; malignant neoplasm of breast; and malignant neoplasm of large intestine and rectum.

Table C. Number and rate of patients discharged from short-stay hospitals and of days of care, and average length of stay, by selected first-listed diagnostic categories: United States, 1992

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

| Diagnostic category and ICD-9-CM code | Discharges | | Days of care | | Average length of stay in days |
|--|---------------------|----------------------------|---------------------|----------------------------|--------------------------------|
| | Number in thousands | Rate per 10,000 population | Number in thousands | Rate per 10,000 population | |
| All conditions ¹ | 30,951 | 1,221.0 | 190,386 | 7,510.4 | 6.2 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 3,935 | 155.2 | 26,256 | 1,035.7 | 6.7 |
| Acute myocardial infarction410 | 747 | 29.5 | 6,058 | 239.0 | 8.1 |
| Coronary atherosclerosis414.0 | 416 | 16.4 | 2,342 | 92.4 | 5.6 |
| Other ischemic heart disease411-413,414.1-414.9 | 971 | 38.3 | 4,831 | 190.6 | 5.0 |
| Cardiac dysrhythmias427 | 542 | 21.4 | 2,835 | 111.8 | 5.2 |
| Congestive heart failure428.0 | 822 | 32.4 | 6,506 | 256.7 | 7.9 |
| Females with deliveriesV27 | 3,910 | 154.2 | 10,040 | 396.1 | 2.6 |
| Malignant neoplasms140-208,230-234 | 1,577 | 62.2 | 13,433 | 529.9 | 8.5 |
| Malignant neoplasm of large intestine and rectum . .153-154,197.5 | 161 | 6.3 | 1,848 | 72.9 | 11.5 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 215 | 8.5 | 1,783 | 70.3 | 8.3 |
| Malignant neoplasm of breast174-175,198.81 | 170 | 6.7 | 695 | 27.4 | 4.1 |
| Pneumonia480-486 | 1,059 | 41.8 | 8,793 | 346.8 | 8.3 |
| Fractures800-829 | 1,016 | 40.1 | 7,842 | 309.3 | 7.7 |
| Psychosis290-299 | 908 | 35.8 | 11,746 | 463.3 | 12.9 |
| Cerebrovascular disease430-438 | 829 | 32.7 | 7,302 | 288.0 | 8.8 |
| Arthropathies and related disorders710-719 | 554 | 21.9 | 4,027 | 158.9 | 7.3 |
| Cholelithiasis574 | 512 | 20.2 | 2,236 | 88.2 | 4.4 |
| Diabetes mellitus250 | 476 | 18.8 | 3,274 | 129.2 | 6.9 |
| Asthma493 | 463 | 18.3 | 2,008 | 79.2 | 4.3 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 422 | 16.6 | 1,947 | 76.8 | 4.6 |
| Intervertebral disc disorders722 | 407 | 16.0 | 1,786 | 70.5 | 4.4 |
| Acute respiratory infections, except influenza460-466 | 376 | 14.8 | 1,495 | 59.0 | 4.0 |
| Noninfectious enteritis and colitis555-558 | 354 | 13.9 | 1,732 | 68.3 | 4.9 |
| Diseases of the central nervous system320-336,340-349 | 314 | 12.4 | 2,772 | 109.3 | 8.8 |

¹Includes data for diagnostic conditions not shown in table.

Two additional diagnostic categories, pneumonia and fractures, each accounted for more than 1 million discharges; two other categories, cerebrovascular disease and psychosis, each made up more than 800,000 discharges. These four diagnostic categories each accounted for more than 7 million days of care in 1992. Patients with first-listed diagnoses of psychosis had a particularly long average length of stay (12.9 days) and they used 6.2 percent of total days of care.

Selected diagnoses for patients 65 years of age and over are shown in table D. Heart disease was the first-listed diagnosis for an estimated 2,487,000 patients 65 years of age and over, which was 23 percent of the discharges of this age group. Acute myocardial infarction, coronary atherosclerosis, and other ischemic heart disease accounted for 56 percent of

the heart disease discharges for patients 65–74 years of age, 43 percent for patients 75 years of age and over. Congestive heart failure was the diagnosis for 31 percent of heart disease discharges for patients 75 years of age and over, and for 20 percent of those 65–74 years of age.

Patients 65 years of age and over with first-listed diagnoses of malignant neoplasm made up 8 percent of discharges for patients 65 years of age and over in 1992. Malignant neoplasm of trachea, bronchus, and lung and malignant neoplasm of large intestine and rectum were important causes of hospitalization for this age group. Cerebrovascular disease was the first-listed diagnosis for 6 percent of patients 65 years of age and over, pneumonia for 5 percent, and fractures for 4 percent. The other diagnostic categories shown in table D

Table D. Number and rate of patients 65 years of age and over discharged from short-stay hospitals, and average length of stay, by age and selected first-listed diagnoses: United States, 1992

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

| Diagnostic category and ICD-9-CM code | 65 years and over | 65-74 years | | 75 years and over |
|--|-------------------|--------------------------------------|--------------------------------------|-------------------|
| | | Discharges in thousands | Discharge rate per 10,000 population | |
| All conditions ¹ | 10,864 | 4,883 | | 5,981 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 2,487 | 1,128 | | 1,360 |
| Acute myocardial infarction410 | 441 | 205 | | 236 |
| Coronary atherosclerosis414.0 | 217 | 144 | | 73 |
| Other ischemic heart disease414.1-414.9,411-413 | 559 | 286 | | 273 |
| Cardiac dysrhythmias427 | 359 | 153 | | 206 |
| Congestive heart failure428.0 | 651 | 224 | | 427 |
| Malignant neoplasms140-208,230-234 | 852 | 484 | | 368 |
| Malignant neoplasm of large intestine and rectum153-154, 197.5 | 111 | 49 | | 62 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 122 | 80 | | 42 |
| Cerebrovascular disease430-438 | 623 | 251 | | 372 |
| Pneumonia480-486 | 556 | 177 | | 378 |
| Fractures800-829 | 453 | 122 | | 332 |
| Fracture of neck or femur820 | 244 | 47 | | 197 |
| Arthropathies and related disorders710-719 | 288 | 160 | | 128 |
| Urinary tract infection, site unspecified599.0 | 213 | 57 | | 156 |
| Psychosis290-299 | 195 | 88 | | 108 |
| Cholelithiasis574 | 181 | 100 | | 81 |
| Septicemia038 | 178 | 63 | | 115 |
| Diabetes mellitus250 | 174 | 88 | | 86 |
| Hyperplasia of prostate600 | 173 | 88 | | 85 |
| | | Discharge rate per 10,000 population | | |
| All conditions ¹ | 3,365.0 | 2,645.3 | | 4,326.2 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 770.4 | 610.8 | | 983.6 |
| Acute myocardial infarction410 | 136.6 | 111.0 | | 170.7 |
| Coronary atherosclerosis414.0 | 67.2 | 77.7 | | 53.1 |
| Other ischemic heart disease414.1-414.9,411-413 | 173.3 | 155.0 | | 197.6 |
| Cardiac dysrhythmias427 | 111.1 | 82.9 | | 148.8 |
| Congestive heart failure428.0 | 201.6 | 121.5 | | 308.6 |
| Malignant neoplasms140-208,230-234 | 263.8 | 261.9 | | 266.3 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 34.5 | 26.5 | | 45.1 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 37.8 | 43.5 | | 30.1 |
| Cerebrovascular disease430-438 | 193.0 | 135.9 | | 269.3 |
| Pneumonia480-486 | 172.1 | 95.9 | | 273.8 |
| Fractures800-829 | 140.4 | 65.8 | | 239.9 |
| Fracture of neck or femur820 | 75.7 | 25.5 | | 142.7 |
| Arthropathies and related disorders710-719 | 89.1 | 86.6 | | 92.5 |
| Urinary tract infection, site unspecified599.0 | 65.8 | 30.9 | | 112.5 |
| Psychosis290-299 | 60.4 | 47.4 | | 77.8 |
| Cholelithiasis574 | 56.1 | 54.2 | | 58.6 |
| Septicemia038 | 55.0 | 34.0 | | 83.0 |
| Diabetes mellitus250 | 53.9 | 47.7 | | 62.1 |
| Hyperplasia of prostate600 | 53.5 | 47.6 | | 61.5 |

Table D. Number and rate of patients 65 years of age and over discharged from short-stay hospitals, and average length of stay, by age and selected first-listed diagnoses: United States, 1992—Con.

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

| Diagnostic category and ICD-9-CM code | 65 years and over | 65-74 years | 75 years and over | Average length of stay in days | | |
|--|----------------------|----------------|----------------------|--------------------------------|--|--|
| | | | | | | |
| All conditions ¹ | 8.2 | 7.7 | 8.7 | | | |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 7.2 | 6.8 | 7.6 | | | |
| Acute myocardial infarction410 | 8.8 | 8.3 | 9.2 | | | |
| Coronary atherosclerosis414 | 6.4 | 6.1 | 6.9 | | | |
| Other ischemic heart disease414.1-414.9,411-413 | 5.5 | 5.5 | 5.6 | | | |
| Cardiac dysrhythmias427 | 5.7 | 5.1 | 6.2 | | | |
| Congestive heart failure428.0 | 8.2 | 8.0 | 8.2 | | | |
| Malignant neoplasms140-208,230-234 | 9.0 | 8.9 | 9.2 | | | |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 12.0 | 11.0 | 12.8 | | | |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 8.3 | 7.8 | 9.1 | | | |
| Cerebrovascular disease430-438 | 8.8 | 8.7 | 8.8 | | | |
| Pneumonia480-486 | 10.1 | 10.1 | 10.1 | | | |
| Fractures800-829 | 10.2 | 9.3 | 10.5 | | | |
| Fracture of neck or femur820 | 11.9 | 12.6 | 11.7 | | | |
| Arthropathies and related disorders710-719 | 9.3 | 8.5 | 10.4 | | | |
| Urinary tract infection, site unspecified599.0 | 7.8 | 7.6 | 7.9 | | | |
| Psychosis290-299 | 13.8 | 14.9 | 13.0 | | | |
| Cholelithiasis574 | 6.1 | 5.2 | 7.2 | | | |
| Septicemia038 | 11.4 | 10.7 | 11.7 | | | |
| Diabetes mellitus250 | 8.6 | 8.4 | 8.8 | | | |
| Hyperplasia of prostate600 | 4.6 | 3.9 | 5.2 | | | |

¹Includes data for diagnostic conditions not shown in table.

accounted for a combined total of 12.9 percent of the discharges of patients 65 years of age and over.

The discharge rates for patients 75 years of age and over was 4,326.2 per 10,000 population. This was 64 percent higher than the rate of 2,645.3 per 10,000 population for patients 65-74 years of age. However, patients 75 years of age and over did not have higher discharge rates for all the diagnostic categories. The discharge rate per 10,000 population for coronary atherosclerosis was 77.7 for patients 65-74 years of age compared with 53.1 for those 75 years of age and over. Patients 65-74 years of age had a discharge rate of 43.5 per

10,000 population for malignant neoplasm of trachea, bronchus, and lung; but the rate was 30.1 for patients 75 years of age and over.

The average length of stay for patients 65 years of age and over was 8.2 days in 1992. Among the conditions shown in table D, average stays ranged from 4.6 days for hyperplasia of prostate to 13.8 days for psychosis. Patients 65 years of age and over also had average lengths of stay of 10 days or more for malignant neoplasm of large intestine and rectum, septicemia, fractures, and pneumonia.

Procedures

One or more surgical, diagnostic, or therapeutic procedures were performed on an estimated 20,426,000 inpatients discharged from short-stay hospitals in 1992, which was 66.0 percent of all discharges (table E). At least one surgical procedure was reported for 14,483,000 patients discharged, or 46.8 percent of all discharges. See appendix II for the definition of surgical and nonsurgical procedures.

The proportion of patients with surgical procedures ranged from 25.7 percent of children under 15 years of age to 57.6 percent of patients 15–44 years of age, who have many procedures related to childbirth. At least one surgical procedure was performed on 49.8 percent of females and 42.3 percent of males. The proportion of white patients with a surgical procedure was 47.6 percent, compared with 39.7 percent of black patients.

An estimated total of 23,253,000 surgical procedures were performed for inpatients who had surgery (table F). When multiple procedures were performed on an individual patient, the procedures were usually classified in different procedure categories. However, coronary artery bypass graft (CABG, ICD–9–CM code 36.1) can be an exception. A physician may perform more than one CABG procedure during a single operation. In 1992, a total of 468,000 CABG procedures were performed on 309,000 patients discharged. Data users should not equate the number of CABG procedures with the number of patients having the procedure.

Four obstetrical procedures accounted for 17 percent of all surgical procedures performed in 1992: episiotomy, cesarean section, repair of current obstetric laceration, and artificial rupture of membranes. The rate per 100 deliveries was 23.6

Table E. Number of patients discharged from short-stay hospitals with and without procedures and percent with procedures, by selected characteristics: United States, 1992

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

| Characteristic | All discharged patients | Patients without procedures | Patients with procedures | | | |
|-----------------------------|-------------------------|-----------------------------|------------------------------|-----------------------------------|------------------------------|-----------------------------------|
| | | | All patients with procedures | Patients with surgical procedures | All patients with procedures | Patients with surgical procedures |
| | Number in thousands | | | | Percent | |
| All patients | 30,951 | 10,525 | 20,426 | 14,483 | 66.0 | 46.8 |
| Age | | | | | | |
| Under 15 years | 2,531 | 1,349 | 1,183 | 651 | 46.7 | 25.7 |
| 15–44 years | 11,227 | 2,936 | 8,291 | 6,470 | 73.8 | 57.6 |
| 45–64 years | 6,329 | 2,029 | 4,300 | 3,024 | 67.9 | 47.8 |
| 65 years and over | 10,864 | 4,211 | 6,653 | 4,338 | 61.2 | 39.9 |
| Sex | | | | | | |
| Male | 12,406 | 4,566 | 7,840 | 5,242 | 63.2 | 42.3 |
| Female | 18,545 | 5,959 | 12,586 | 9,240 | 67.9 | 49.8 |
| Race | | | | | | |
| White | 20,018 | 6,787 | 13,231 | 9,532 | 66.1 | 47.6 |
| Black | 3,692 | 1,346 | 2,346 | 1,466 | 63.5 | 39.7 |
| All other | 1,128 | 238 | 889 | 621 | 78.9 | 55.0 |
| Not stated | 6,113 | 2,154 | 3,959 | 2,864 | 64.8 | 46.8 |
| Region | | | | | | |
| Northeast | 7,141 | 2,150 | 4,990 | 3,400 | 69.9 | 47.6 |
| Midwest | 7,121 | 2,788 | 4,333 | 3,186 | 60.8 | 44.7 |
| South | 11,256 | 4,317 | 6,939 | 5,047 | 61.6 | 44.8 |
| West | 5,433 | 1,269 | 4,164 | 2,850 | 76.6 | 52.5 |

NOTE: See appendix II for definition of surgical procedures.

Table F. Number and rate of all-listed surgical procedures for patients discharged from short-stay hospitals, by selected surgical categories: United States, 1992

[Discharges 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)*]

| <i>Procedure category and ICD-9-CM code</i> | <i>Number in thousands</i> | <i>Rate per 100,000 population</i> |
|---|----------------------------|------------------------------------|
| Surgical procedures ¹ | 23,253 | 9,172.9 |
| Episiotomy with or without forceps or vacuum extraction72.1,72.21,72.31,72.71,73.6 | 1,611 | 635.4 |
| Cardiac catheterization.37.21-37.23 | 1,028 | 405.6 |
| Cesarean section74.0-74.2,74.4,74.99 | 921 | 363.3 |
| Repair of current obstetric laceration.75.5-75.6 | 790 | 311.8 |
| Artificial rupture of membranes.73.0 | 729 | 287.5 |
| Hysterectomy68.3-68.7 | 580 | 228.8 |
| Cholecystectomy51.2 | 525 | 207.1 |
| Coronary artery bypass graft36.1 | 468 | 184.8 |
| Oophorectomy and salpingo-oophorectomy65.3-65.6 | 464 | 183.1 |
| Open reduction of fracture, with internal fixation79.3 | 417 | 164.4 |
| Removal of coronary obstruction.36.0 | 399 | 157.2 |
| Bilateral destruction or occlusion of fallopian tubes66.2-66.3 | 380 | 149.8 |
| Prostatectomy.60.2-60.6 | 353 | 139.1 |
| Lysis of peritoneal adhesions54.5 | 344 | 135.5 |
| Excision or destruction of intervertebral disc.80.5 | 319 | 125.9 |
| Debridement of wound, infection, or burn.86.22,86.28 | 308 | 121.4 |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 274 | 108.1 |
| Appendectomy, excluding incidental.47.0 | 261 | 102.9 |

¹Includes data for surgical conditions not shown in table. See appendix II for ICD-9-CM codes included.

Table G. Number and rate of all-listed nonsurgical procedures for patients discharged from short-stay hospitals, by selected nonsurgical categories: United States, 1992

[Discharges 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)*]

| <i>Procedure category and ICD-9-CM code</i> | <i>Number in thousands</i> | <i>Rate per 100,000 population</i> |
|---|----------------------------|------------------------------------|
| Nonsurgical procedures ¹ | 19,374 | 7,642.9 |
| Arteriography and angiocardiology using contrast material.88.4-88.5 | 1,771 | 698.7 |
| Diagnostic ultrasound88.7 | 1,458 | 575.2 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 1,266 | 499.4 |
| Fetal EKG and fetal monitoring, not otherwise specified75.32, 75.34 | 1,241 | 489.6 |
| Respiratory therapy.93.9 | 819 | 323.2 |
| Manual assisted delivery73.5 | 809 | 319.2 |
| Circulatory monitoring89.6 | 596 | 234.9 |
| Endoscopy of small intestine without biopsy.45.11-45.13 | 564 | 222.6 |
| Radioisotope scan92.0-92.1 | 464 | 183.1 |
| Injection or infusion of cancer chemotherapeutic substance99.25 | 438 | 172.8 |
| Endoscopy of large intestine with biopsy.45.21-45.24 | 391 | 154.4 |
| Cystoscopy without biopsy57.31-57.32 | 379 | 149.5 |
| Spinal tap03.31 | 339 | 133.7 |

¹Includes data for nonsurgical procedures not shown in table. See appendix II for ICD-9-CM codes included.

for cesarean section and 18.6 for artificial rupture of membranes. There were 53.9 episiotomies and 26.4 repairs of current obstetric lacerations per 100 vaginal deliveries.

The cardiovascular procedures of cardiac catheterization; coronary artery bypass graft; removal of coronary artery obstruction; and insertion, replacement, removal, and revision of pacemaker leads or device together accounted for 9 percent of all surgical procedures on hospital inpatients. Three operations on the female genital organs made up 6 percent of all

surgical procedures. These procedures were hysterectomy, oophorectomy and salpingo-oophorectomy, and bilateral destruction or occlusion of fallopian tubes. The operations on the digestive system of cholecystectomy, lysis of peritoneal adhesions, and appendectomy combined were 5 percent of all surgical procedures.

Inpatients discharged from short-stay hospitals had an estimated 19,374,000 nonsurgical procedures in 1992 (table G). Four nonsurgical procedures accounted for more

Table H. Number and rate of all-listed surgical procedures for patients 65 years of age and over discharged from short-stay hospitals, by age and selected procedure categories: United States, 1992

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

| Procedure category and ICD-9-CM code | 65 years and over | 65-74 years | 75 years and over |
|---|----------------------|-----------------------------|----------------------|
| | | | |
| Surgical procedures ¹ | 7,115 | 3,798 | 3,317 |
| Cardiac catheterization.37.21-37.23 | 486 | 330 | 156 |
| Prostatectomy.60.2-60.6 | 278 | 148 | 131 |
| Coronary artery bypass graft36.1 | 252 | 179 | 74 |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 214 | 79 | 135 |
| Removal of coronary artery obstruction.36.0 | 192 | 129 | 63 |
| Cholecystectomy51.2 | 185 | 109 | 76 |
| Open reduction of fracture, with internal fixation79.3 | 171 | 50 | 121 |
| Partial excision of large intestine.45.7 | 133 | 59 | 73 |
| Total knee replacement.81.54 | 126 | 76 | 51 |
| Debridement of wound, infection, or burn.86.22,86.28 | 113 | 45 | 69 |
| | | Rate per 100,000 population | |
| Surgical procedures ¹ | 22,037.5 | 20,571.2 | 23,995.6 |
| Cardiac catheterization.37.21-37.23 | 1,506.3 | 1,787.5 | 1,130.8 |
| Prostatectomy.60.2-60.6 | 861.2 | 799.0 | 944.4 |
| Coronary artery bypass graft36.1 | 781.7 | 968.9 | 531.7 |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 661.7 | 427.1 | 975.0 |
| Removal of coronary artery obstruction.36.0 | 594.4 | 699.9 | 453.6 |
| Cholecystectomy51.2 | 571.8 | 588.7 | 549.3 |
| Open reduction of fracture, with internal fixation79.3 | 529.2 | 272.2 | 872.3 |
| Partial excision of large intestine.45.7 | 411.6 | 322.0 | 531.3 |
| Total knee replacement.81.54 | 391.1 | 409.0 | 367.1 |
| Debridement of wound, infection, or burn.86.22,86.28 | 351.4 | 242.7 | 496.5 |

¹Includes procedures not shown in table. See appendix II for ICD-9-CM codes included.

Table J. Number and rate of all-listed nonsurgical procedures for patients 65 years of age and over discharged from short-stay hospitals, by age and selected procedure categories: United States, 1992

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

| Procedure category and ICD-9-CM code | 65 years and over | 65-74 years | 75 years and over |
|---|----------------------|-----------------------------|----------------------|
| | | | |
| Nonsurgical procedures ¹ | 7,621 | 3,594 | 4,027 |
| Arteriography and angiocardiology using contrast material88.4-88.51 | 844 | 550 | 294 |
| Diagnostic ultrasound88.7 | 689 | 296 | 393 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 621 | 262 | 360 |
| Respiratory therapy.93.9 | 365 | 156 | 209 |
| Circulatory monitoring89.6 | 329 | 146 | 183 |
| Endoscopy of small intestine without biopsy.45.11-45.13 | 313 | 133 | 180 |
| Endoscopy of large intestine without biopsy45.21-45.24 | 242 | 96 | 146 |
| Radioisotope scan92.0-92.1 | 237 | 107 | 130 |
| Cystoscopy without biopsy57.31-57.32 | 223 | 103 | 121 |
| | | Rate per 100,000 population | |
| Nonsurgical procedures ¹ | 23,606.4 | 19,468.8 | 29,131.8 |
| Arteriography and angiocardiology using contrast material88.4-88.51 | 2,614.1 | 2,980.4 | 2,125.0 |
| Diagnostic ultrasound88.7 | 2,134.7 | 1,605.4 | 2,841.4 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 1,925.0 | 1,416.9 | 2,603.6 |
| Respiratory therapy.93.9 | 1,130.6 | 847.5 | 1,508.6 |
| Circulatory monitoring89.6 | 1,020.4 | 791.0 | 1,326.7 |
| Endoscopy of small intestine without biopsy45.11-45.13 | 969.5 | 720.8 | 1,301.6 |
| Endoscopy of large intestine without biopsy45.21-45.24 | 749.7 | 521.8 | 1,054.1 |
| Radioisotope scan92.0-92.1 | 734.2 | 580.1 | 940.0 |
| Cystoscopy without biopsy57.31-57.32 | 690.7 | 555.2 | 871.7 |

¹Includes procedures not shown in table. See appendix II for ICD-9-CM codes included.

than 1 million procedures each. These were arteriography and angiocardiology using contrast material (1.8 million), diagnostic ultrasound (1.5 million), computerized axial tomography (1.3 million), and fetal EKG and fetal monitoring (1.2 million). These four procedures accounted for approximately 30 percent of all nonsurgical procedures. Fetal EKG and fetal monitoring were performed at the rate of 31.8 per 100 deliveries.

An estimated 7,115,000 surgical procedures were performed on hospital inpatients 65 years of age and over in 1992 (table H). Four cardiovascular procedures accounted for 16 percent of the surgical procedures on the elderly. These four procedures were cardiac catheterization; coronary artery bypass graft; insertion, replacement, removal, and revision of pacemaker leads; and removal of coronary artery obstruction. Prostatectomy made up an additional 4 percent of the surgical procedures for persons 65 years of age and over.

The total rate of surgical procedures per 100,000 population was higher for persons 75 years of age and over than for those 65–74 years of age. However, the pattern varied for some procedures. For example, the rate per 100,000 population for cardiac catheterization was 1,787.5 for persons 65–74

years of age, compared with 1,130.8 for those 75 years of age and over. Coronary artery bypass graft was performed at the rate of 968.9 per 100,000 population for the 65–74 year age group but at the rate of 531.7 per 100,000 population for persons 75 years of age and over.

The estimated number of nonsurgical procedures for patients 65 years of age and over was 7,621,000 in 1992 (table J). Arteriography and angiocardiology using contrast material accounted for 11 percent of the nonsurgical procedures performed on patients 65 years of age and over. Diagnostic ultrasound accounted for 9 percent, and computerized axial tomography accounted for 8 percent. Respiratory therapy made up 5 percent, and circulatory monitoring 5 percent of nonsurgical procedures on the elderly.

Like the rates of surgical procedures, rates of nonsurgical procedures per 100,000 population were generally higher for patients 75 years of age and over than for patients 65–74 years of age. One exception was arteriography and angiocardiology using contrast material, for which the rate per 100,000 population was 2,980.4 for patients 65–74 years of age and 2,125.0 for patients 75 years of age and over.

Patients with HIV diagnoses

The estimated number of patients discharged with human immunodeficiency virus (HIV) diagnoses increased from 10,000 in 1984 to 194,000 in 1992 (table K). The discharge rate for patients with HIV diagnoses rose from 4.3 to 76.4 per 100,000 population during this period. These data include patients with acquired immunodeficiency syndrome (AIDS), those with HIV and associated conditions, and those with positive serological or viral culture findings for HIV. The ICD-9-CM code of 279.19 was used for HIV diagnoses from 1984 until 1986. During 1986, new ICD-9-CM codes, 042-044 and 795.8, were added to provide more detail.

The number of days of care for patients with HIV diagnoses increased from 123,000 in 1984 to 2,188,000 in 1990 but did not increase from 1990 to 1992. In 1992, 2,136,000 days of care were reported. The rate of days of care per 100,000 population rose from 52.7 in 1984, to 877.4 in 1990, and was 842.8 in 1992. The average length of stay for patients with HIV diagnoses ranged from 11.0 days to 17.1 days during the 1984-92 period. In 1992, HIV patients had an average stay of 11.0 days.

The number and rate of patients with HIV diagnoses discharged from short-stay hospitals from 1989 through

1992 are shown in table L. During this 3-year period, 78 percent of HIV discharges were male. In 1992, the discharge rate per 100,000 population for males with HIV was 124.1, compared with a rate of 31.4 for females with HIV.

Three-fourths of HIV patients discharged from 1990 through 1992 were 25-44 years of age. Each 5-year age group within the 25-44-year group had a HIV discharge rate of more than 100 per 100,000 population in 1992, compared with rates of 33.0 for patients 45 years of age and over and 18.0 for those under 25 years of age.

Forty-five percent of discharges with HIV diagnoses were white and 37 percent were black in the 1990-92 period, but the discharge rate per 100,000 population was 236.6 for black patients and only 37.9 for white patients in 1992. These proportions and rates may be underestimated, however, because race was not reported for all HIV patients. In 1992, race was not reported for 15 percent of HIV discharges.

The Northeast Region accounted for 40 percent of HIV discharges from 1990 through 1992. In 1992, the discharge rate per 100,000 population was 147.8 in the Northeast, compared to 73.3 in the West, 63.6 in the South, and 37.4 in the Midwest.

Table K. Selected measures of hospital utilization for patients discharged from short-stay hospitals with human immunodeficiency virus (HIV) diagnoses: United States, 1984-92

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

| Measure of utilization | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|---|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Number of patients discharged in thousands | 10 | 23 | 44 | 67 | 95 | 140 | 146 | 165 | 194 |
| Rate of patient discharges per 100,000 population | 4.3 | 9.5 | 18.2 | 27.5 | 39.1 | 56.7 | 58.7 | 65.7 | 76.4 |
| Number of days of care in thousands | 123 | 387 | 714 | 936 | 1,277 | 1,731 | 2,188 | 2,107 | 2,136 |
| Rate of days of care per 100,000 population | 52.7 | 163.1 | 298.5 | 387.3 | 522.9 | 702.3 | 877.4 | 841.2 | 842.8 |
| Average length of stay in days | 12.1 | 17.1 | 16.4 | 14.1 | 13.4 | 12.4 | 14.9 | 12.8 | 11.0 |

Table L. Number and rate of patients with human immunodeficiency virus (HIV) diagnoses discharged from short-stay hospitals, by selected characteristics: United States, 1990–92

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

| Characteristic | 1990 | 1991 | 1992 | 1990 | 1991 | 1992 |
|------------------------------|---------------------|------|------|-----------------------------|-------|-------|
| | Number in thousands | | | Rate per 100,000 population | | |
| All HIV discharges | 146 | 165 | 194 | 58.7 | 65.7 | 76.4 |
| Sex | | | | | | |
| Male | 114 | 127 | 153 | 94.6 | 104.6 | 124.1 |
| Female | 32 | 37 | 41 | 24.9 | 29.1 | 31.4 |
| Age | | | | | | |
| Under 25 years | 14 | 16 | 16 | 15.3 | 17.1 | 18.0 |
| 25–29 years | 20 | 25 | 26 | 97.3 | 122.3 | 133.3 |
| 30–34 years | 38 | 38 | 42 | 172.2 | 173.7 | 189.6 |
| 35–39 years | 36 | 36 | 53 | 179.7 | 178.7 | 253.1 |
| 40–44 years | 17 | 25 | 30 | 96.5 | 132.4 | 158.0 |
| 45 years and over | 21 | 25 | 27 | 26.9 | 32.0 | 33.0 |
| Race ¹ | | | | | | |
| White | 75 | 71 | 80 | 36.0 | 33.9 | 37.9 |
| Black | 49 | 62 | 74 | 157.3 | 199.8 | 236.6 |
| All other | * | *7 | 10 | * | *66.0 | 94.7 |
| Not stated | 19 | 25 | 29 | ... | ... | ... |
| Region | | | | | | |
| Northeast | 66 | 61 | 75 | 129.9 | 120.7 | 147.8 |
| Midwest | 20 | 26 | 23 | 33.4 | 43.7 | 37.4 |
| South | 37 | 44 | 56 | 42.6 | 50.6 | 63.6 |
| West | 24 | 33 | 40 | 45.3 | 62.3 | 73.3 |

¹Numbers and rates for specific race groups are underestimated because race was not reported for all HIV discharges.

Hospital deaths

In 1992, 96.1 percent of patients (excluding newborn infants) were discharged from short-stay hospitals alive, 2.7 percent were discharged dead, and for 1.2 percent a discharge status was not reported. Of the estimated 821,000 patients who died, 424,000 (51.6 percent) were male and 397,000 (48.4 percent) were female (table M). As expected, patients 65 years of age and over accounted for the majority of hospital deaths, 599,000 (73.0 percent). Persons who died while hospitalized represented approximately 38 percent of all deaths during 1992 (5).

A hospital fatality rate is the number of deaths for a category divided by the total number of discharges for that category multiplied by 100. This rate is conservative because the formula is based on the assumption that all patients whose discharge status was not stated were discharged alive. An overall fatality rate of 2.7 was computed for patients in 1992. The rate was 3.4 for males compared with 2.1 for females. Patients under 65 years of age had a fatality rate of 1.1; for those 65 years of age and over the rate was 5.5.

Table N shows estimated numbers of hospital deaths and

Table M. Number of deaths and fatality rate of patients discharged from short-stay hospitals, by sex and age of patient: United States, 1992

[Deaths in non-Federal hospitals. Excludes newborn infants]

| Age | Both sexes | | | Both sexes | | |
|-------------------|---------------------|--------|------------|-------------------------|--------|------------|
| | Male | Female | Both sexes | Male | Female | Both sexes |
| | Number in thousands | | | Rate per 100 discharges | | |
| All ages | 424 | 397 | 821 | 2.7 | 3.4 | 2.1 |
| Under 65 years | 136 | 86 | 222 | 1.1 | 1.8 | 0.7 |
| Under 15 years | 10 | 9 | 19 | 0.8 | 0.7 | 0.8 |
| 15-44 years | 38 | 17 | 55 | 0.5 | 1.2 | 0.2 |
| 45-64 years | 88 | 60 | 148 | 2.3 | 2.8 | 1.9 |
| 65 years and over | 288 | 311 | 599 | 5.5 | 6.1 | 5.0 |

Table N. Number of deaths and fatality rate of patients discharged from short-stay hospitals, by age and selected categories of first-listed diagnosis: United States, 1992

[Deaths in 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 65 years | 65 years and over | All ages | Under 65 years | 65 years and over |
|--|---------------------|----------------|-------------------|-------------------------|----------------|-------------------|
| | Number in thousands | | | Rate per 100 discharges | | |
| All deaths ¹ | 821 | 222 | 599 | 2.7 | 1.1 | 5.5 |
| Heart disease | 189 | 30 | 159 | 4.8 | 2.1 | 6.4 |
| Acute myocardial infarction | 81 | 12 | 69 | 10.8 | 3.8 | 15.7 |
| Congestive heart failure | 57 | * | 52 | 6.9 | * | 8.0 |
| Cardiac dysrhythmias | 21 | *8 | 13 | 3.8 | *4.1 | 3.6 |
| Chronic ischemic heart disease | 14 | * | 12 | 1.0 | * | 1.5 |
| Malignant neoplasms | 140 | 51 | 89 | 8.9 | 7.0 | 10.5 |
| Malignant neoplasms of trachea, bronchus, and lung | 33 | 13 | 20 | 15.4 | 13.8 | 16.7 |
| Pneumonia | 72 | 14 | 58 | 6.8 | 2.7 | 10.5 |
| Cerebrovascular disease | 61 | 15 | 46 | 7.3 | 7.4 | 7.3 |
| Septicemia | 42 | *9 | 33 | 15.0 | *8.8 | 18.5 |
| Injury and poisoning | 39 | 15 | 24 | 1.5 | 0.8 | 2.8 |
| Nephritis, nephrotic syndrome, and nephrosis | 14 | * | 10 | 12.9 | * | 19.3 |

¹Includes data for deaths not shown in table.

Table O. Average length of stay of patients discharged from short-stay hospitals, by discharge status, sex, and age: United States, 1992

[Deaths in non-Federal hospitals. Excludes newborn infants]

| Age | Discharge status | | | | | |
|-----------------------------|--------------------------------|------|--------|------------|------|--------|
| | Alive | | | Dead | | |
| | Both sexes | Male | Female | Both sexes | Male | Female |
| | Average length of stay in days | | | | | |
| All ages | 6.0 | 6.5 | 5.6 | 11.8 | 11.9 | 11.7 |
| Under 65 years | 4.9 | 5.8 | 4.4 | 12.4 | 12.5 | 12.4 |
| Under 15 years | 4.8 | 4.9 | 4.7 | 10.6 | 10.3 | 10.8 |
| 15-44 years | 4.3 | 6.0 | 3.6 | 11.5 | 10.6 | 13.5 |
| 45-64 years | 6.1 | 6.2 | 6.1 | 13.0 | 13.5 | 12.3 |
| 65 years and over | 8.0 | 7.7 | 8.2 | 11.6 | 11.7 | 11.5 |

hospital fatality rates for selected conditions for the age groups under 65 years of age and 65 years of age and over. These estimates are not the same as the data for underlying cause of death reported in *Vital Statistics of the United States*. The diagnostic groupings in table N accounted for 68 percent of the deaths in short-stay hospitals in 1992. Heart disease and malignant neoplasms were responsible for 329,000 (40 percent) of all hospital deaths. Fatality rates of more than 10 per 100 discharges were found for malignant neoplasm of trachea, bronchus, and lung (15.4); septicemia (15.0); nephritis, nephrotic syndrome, and nephrosis (12.9); and acute myocardial infarction (10.8).

Average lengths of stay for patients discharged from short-stay hospitals are shown by discharge status, age, and sex in table O. The average stay for all discharged patients was 6.2 days. Patients discharged alive had an average stay of 6.0 days, but those discharged dead had an average length of stay of 11.8 days. For patients under 65 years of age, the average length of stay was 4.9 days for those discharged alive; however, it was 12.4 days for those who died in the hospital. Average lengths of stay were more similar for patients 65 years of age and over—8.0 days for those discharged alive compared with 11.6 days for those who died in hospitals.

Newborn infants

Newborn infants, defined as patients admitted to the hospital by birth, were estimated at 3,689,000 in 1992 (table P). Males made up 1,926,000 (52.2 percent) and females 1,762,000 (47.8 percent) of newborn infants. Because these estimates were based on a sample, they may not agree with the data on births published in *Vital Statistics of the United States*.

The South Region accounted for 34.3 percent of newborn infants, the West for 25.3 percent, the Midwest for 21.9 percent, and the Northeast for 18.6 percent. The average length of stay for all newborn infants was 3.1 days; average stays ranged from 4.0 days in the Northeast Region to 2.5 days in the West Region.

As shown in table Q, 2,178,000 newborn infants were defined as well, which meant they did not have any illnesses or risk-related diagnoses. The 1,510,000 sick newborn infants had at least one diagnosis in addition to the newborn infant diagnosis. Sick newborn infants made up 42 percent of all male newborn infants and 39 percent of female newborn infants.

The average length of stay for sick newborn infants was 4.7 days, compared with an average stay of 2.1 days for well newborn infants. As a result, sick newborn infants accounted for 61 percent of all hospital days for newborn infants, although they constituted only 41 percent of newborn infant discharges.

The diagnosis of hemolytic disease of fetus or newborn, due to isoimmunization and other perinatal jaundice, was reported an estimated 523,000 times for sick newborn infants

Table P. Number, percent distribution, and average length of stay for newborn infants discharged from short-stay hospitals, by sex and geographic region: United States, 1992

[Discharges from non-Federal hospitals]

| Sex and region | Number of discharges in thousands | Percent distribution | Average length of stay in days |
|---------------------|-----------------------------------|----------------------|--------------------------------|
| All newborn infants | 3,689 | 100.0 | 3.1 |
| Sex | | | |
| Male | 1,926 | 52.2 | 3.3 |
| Female | 1,762 | 47.8 | 3.0 |
| Region | | | |
| Northeast | 685 | 18.6 | 4.0 |
| Midwest | 806 | 21.9 | 3.0 |
| South | 1,264 | 34.3 | 3.2 |
| West | 933 | 25.3 | 2.5 |

and by itself accounted for 19 percent of sick newborn diagnoses (table R). Other leading sick newborn infant diagnoses included respiratory distress syndrome and other respiratory conditions of fetus and newborn, congenital anomalies, disorders relating to short gestation and unspecified low birthweight (prematurity) and disorders relating to long gestation and high birthweight. Together, these four diagnostic categories made up 35 percent of sick newborn infant diagnoses.

Table Q. Number and average length of stay of newborn infants discharged from short-stay hospitals, by sex and health status: United States, 1992

[Discharges from non-Federal hospitals]

| Health status | Both sexes | Male | Female |
|--------------------------------|------------|-------|--------|
| Number in thousands | | | |
| Total | 3,689 | 1,926 | 1,762 |
| Well | 2,178 | 1,108 | 1,070 |
| Sick | 1,510 | 818 | 692 |
| Average length of stay in days | | | |
| Total | 3.1 | 3.3 | 3.0 |
| Well | 2.1 | 2.1 | 2.0 |
| Sick | 4.7 | 5.0 | 4.4 |

Table R. Number of all-listed diagnoses for sick newborn infants discharged from short-stay hospitals, by sex and selected diagnostic categories: United States, 1992

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

| Diagnostic category and ICD-9-CM code | Both sexes | Male | Female |
|--|------------|-------|--------|
| Number in thousands | | | |
| Sick newborn infant diagnoses ¹ | 2,688 | 1,523 | 1,165 |
| Congenital anomalies 740-759 | 236 | 126 | 110 |
| Disorders relating to short gestation and unspecified low birthweight (prematurity) 765 | 226 | 121 | 105 |
| Disorders relating to long gestation and high birthweight 766 | 192 | 121 | 70 |
| Respiratory distress syndrome and other respiratory conditions of fetus and newborn 769-770 | 287 | 173 | 114 |
| Hemolytic disease of fetus or newborn, due to isoimmunization and other perinatal jaundice 773-774 | 523 | 271 | 252 |

¹Includes data for diagnoses not shown in the table.

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Table 1. Number, percent distribution, and rate of patients discharged from short-stay hospitals and of days of care, with average lengths of stay, by sex and age: United States, 1992

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

| Sex and age | Discharged patients | | | Days of care | | | Average length of stay in days |
|-----------------------------|---------------------|----------------------|---------------------------|---------------------|----------------------|---------------------------|--------------------------------|
| | Number in thousands | Percent distribution | Rate per 1,000 population | Number in thousands | Percent distribution | Rate per 1,000 population | |
| Both sexes | | | | | | | |
| All ages | 30,951 | 100.0 | 122.1 | 190,386 | 100.0 | 751.0 | 6.2 |
| Under 15 years | 2,531 | 8.2 | 45.2 | 12,289 | 6.5 | 219.6 | 4.9 |
| Under 1 year | 822 | 2.7 | 206.3 | 5,147 | 2.7 | 1,291.9 | 6.3 |
| 1-4 years | 806 | 2.6 | 51.9 | 2,877 | 1.5 | 185.3 | 3.6 |
| 5-14 years | 904 | 2.9 | 24.8 | 4,265 | 2.2 | 117.0 | 4.7 |
| 15-44 years | 11,227 | 36.3 | 96.0 | 48,660 | 25.6 | 416.1 | 4.3 |
| 15-19 years | 1,274 | 4.1 | 75.1 | 4,981 | 2.6 | 293.6 | 3.9 |
| 20-24 years | 2,013 | 6.5 | 108.6 | 6,847 | 3.6 | 369.4 | 3.4 |
| 25-34 years | 4,615 | 14.9 | 110.3 | 19,290 | 10.1 | 461.0 | 4.2 |
| 35-44 years | 3,325 | 10.7 | 83.9 | 17,542 | 9.2 | 442.9 | 5.3 |
| 45-64 years | 6,329 | 20.4 | 131.0 | 39,952 | 21.0 | 827.1 | 6.3 |
| 45-54 years | 2,908 | 9.4 | 106.2 | 17,191 | 9.0 | 627.9 | 5.9 |
| 55-64 years | 3,421 | 11.1 | 163.5 | 22,761 | 12.0 | 1,087.7 | 6.7 |
| 65 years and over | 10,864 | 35.1 | 336.5 | 89,484 | 47.0 | 2,771.7 | 8.2 |
| 65-74 years | 4,883 | 15.8 | 264.5 | 37,675 | 19.8 | 2,040.8 | 7.7 |
| 75-84 years | 4,162 | 13.4 | 393.9 | 35,282 | 18.5 | 3,339.5 | 8.5 |
| 85 years and over | 1,819 | 5.9 | 558.1 | 16,528 | 8.7 | 5,071.4 | 9.1 |
| Under 17 years | 2,892 | 9.3 | 46.1 | 13,963 | 7.3 | 222.6 | 4.8 |
| 17-69 years | 19,562 | 63.2 | 116.1 | 104,841 | 55.1 | 622.3 | 5.4 |
| 70 years and over | 8,497 | 27.5 | 380.9 | 71,582 | 37.6 | 3,208.9 | 8.4 |
| Male | | | | | | | |
| All ages | 12,406 | 100.0 | 100.8 | 83,664 | 100.0 | 679.7 | 6.7 |
| Under 15 years | 1,416 | 11.4 | 49.4 | 6,946 | 8.3 | 242.4 | 4.9 |
| Under 1 year | 474 | 3.8 | 232.3 | 3,122 | 3.7 | 1,531.3 | 6.6 |
| 1-4 years | 459 | 3.7 | 57.7 | 1,588 | 1.9 | 199.8 | 3.5 |
| 5-14 years | 484 | 3.9 | 25.9 | 2,236 | 2.7 | 119.8 | 4.6 |
| 15-44 years | 3,162 | 25.5 | 54.4 | 19,108 | 22.8 | 328.8 | 6.0 |
| 15-19 years | 344 | 2.8 | 39.7 | 1,871 | 2.2 | 216.0 | 5.4 |
| 20-24 years | 369 | 3.0 | 39.9 | 2,078 | 2.5 | 224.7 | 5.6 |
| 25-34 years | 1,105 | 8.9 | 53.4 | 7,159 | 8.6 | 345.8 | 6.5 |
| 35-44 years | 1,344 | 10.8 | 69.0 | 8,000 | 9.6 | 410.3 | 6.0 |
| 45-64 years | 3,135 | 25.3 | 134.7 | 20,082 | 24.0 | 862.9 | 6.4 |
| 45-54 years | 1,375 | 11.1 | 102.9 | 8,517 | 10.2 | 637.4 | 6.2 |
| 55-64 years | 1,761 | 14.2 | 177.6 | 11,565 | 13.8 | 1,166.8 | 6.6 |
| 65 years and over | 4,692 | 37.8 | 359.7 | 37,527 | 44.9 | 2,876.7 | 8.0 |
| 65-74 years | 2,380 | 19.2 | 292.9 | 18,197 | 21.8 | 2,239.6 | 7.6 |
| 75-84 years | 1,724 | 13.9 | 429.8 | 14,163 | 16.9 | 3,532.0 | 8.2 |
| 85 years and over | 588 | 4.7 | 647.4 | 5,167 | 6.2 | 5,684.2 | 8.8 |
| Under 17 years | 1,539 | 12.4 | 47.9 | 7,641 | 9.1 | 237.8 | 5.0 |
| 17-69 years | 7,352 | 59.3 | 89.2 | 47,359 | 56.6 | 574.9 | 6.4 |
| 70 years and over | 3,515 | 28.3 | 410.2 | 28,663 | 34.3 | 3,344.6 | 8.2 |
| Female | | | | | | | |
| All ages | 18,545 | 100.0 | 142.2 | 106,722 | 100.0 | 818.3 | 5.8 |
| Under 15 years | 1,115 | 6.0 | 40.8 | 5,342 | 5.0 | 195.6 | 4.8 |
| Under 1 year | 348 | 1.9 | 179.0 | 2,025 | 1.9 | 1,040.9 | 5.8 |
| 1-4 years | 347 | 1.9 | 45.8 | 1,289 | 1.2 | 170.0 | 3.7 |
| 5-14 years | 420 | 2.3 | 23.6 | 2,029 | 1.9 | 114.1 | 4.8 |
| 15-44 years | 8,064 | 43.5 | 137.1 | 29,552 | 27.7 | 502.3 | 3.7 |
| 15-19 years | 930 | 5.0 | 112.1 | 3,110 | 2.9 | 374.7 | 3.3 |
| 20-24 years | 1,644 | 8.9 | 177.1 | 4,769 | 4.5 | 513.5 | 2.9 |
| 25-34 years | 3,509 | 18.9 | 166.0 | 12,131 | 11.4 | 573.8 | 3.5 |
| 35-44 years | 1,980 | 10.7 | 98.5 | 9,543 | 8.9 | 474.6 | 4.8 |

Table 1. Number, percent distribution, and rate of patients discharged from short-stay hospitals and of days of care, with average lengths of stay, by sex and age: United States, 1992—Con.

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

| <i>Sex and age</i> | <i>Discharged patients</i> | | | <i>Days of care</i> | | | <i>Average length of stay in days</i> |
|-----------------------------|----------------------------|-----------------------------|----------------------------------|----------------------------|-----------------------------|----------------------------------|---------------------------------------|
| | <i>Number in thousands</i> | <i>Percent distribution</i> | <i>Rate per 1,000 population</i> | <i>Number in thousands</i> | <i>Percent distribution</i> | <i>Rate per 1,000 population</i> | |
| 45–64 years | 3,194 | 17.2 | 127.6 | 19,870 | 18.6 | 793.8 | 6.2 |
| 45–54 years | 1,533 | 8.3 | 109.4 | 8,674 | 8.1 | 618.8 | 5.7 |
| 55–64 years | 1,660 | 9.0 | 150.8 | 11,196 | 10.5 | 1,016.5 | 6.7 |
| 65 years and over | 6,172 | 33.3 | 320.8 | 51,957 | 48.7 | 2,700.5 | 8.4 |
| 65–74 years | 2,503 | 13.5 | 242.2 | 19,478 | 18.3 | 1,884.5 | 7.8 |
| 75–84 years | 2,438 | 13.1 | 371.9 | 21,118 | 19.8 | 3,221.7 | 8.7 |
| 85 years and over | 1,230 | 6.6 | 523.8 | 11,361 | 10.6 | 4,836.3 | 9.2 |
| Under 17 years | 1,353 | 7.3 | 44.2 | 6,321 | 5.9 | 206.6 | 4.7 |
| 17–69 years | 12,210 | 65.8 | 141.8 | 57,482 | 53.9 | 667.8 | 4.7 |
| 70 years and over | 4,982 | 26.9 | 362.6 | 42,919 | 40.2 | 3,124.3 | 8.6 |

Table 2. Number, percent distribution, and rate of patients discharged from short-stay hospitals and of days of care, with average lengths of stay, by sex, race, and age: United States, 1992

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

| <i>Sex, race, and age</i> | <i>Discharged patients</i> | | | <i>Days of care</i> | | | <i>Average length of stay in days</i> |
|-------------------------------------|----------------------------|-----------------------------|----------------------------------|----------------------------|-----------------------------|----------------------------------|---------------------------------------|
| | <i>Number in thousands</i> | <i>Percent distribution</i> | <i>Rate per 1,000 population</i> | <i>Number in thousands</i> | <i>Percent distribution</i> | <i>Rate per 1,000 population</i> | |
| Both sexes | | | | | | | |
| All races, all ages | 30,951 | 100.0 | 122.1 | 190,386 | 100.0 | 751.0 | 6.2 |
| Under 15 years | 2,531 | 8.2 | 45.2 | 12,289 | 6.5 | 219.6 | 4.9 |
| 15-44 years | 11,227 | 36.3 | 96.0 | 48,660 | 25.6 | 416.1 | 4.3 |
| 45-64 years | 6,329 | 20.4 | 131.0 | 39,952 | 21.0 | 827.1 | 6.3 |
| 65 years and over | 10,864 | 35.1 | 336.5 | 89,484 | 47.0 | 2,771.7 | 8.2 |
| White, all ages | 20,018 | 64.7 | 94.6 | 125,557 | 65.9 | 593.1 | 6.3 |
| Under 15 years | 1,357 | 4.4 | 30.4 | 6,394 | 3.4 | 143.4 | 4.7 |
| 15-44 years | 6,571 | 21.2 | 68.2 | 28,039 | 14.7 | 291.1 | 4.3 |
| 45-64 years | 4,238 | 13.7 | 101.4 | 25,825 | 13.6 | 618.2 | 6.1 |
| 65 years and over | 7,852 | 25.4 | 270.5 | 65,299 | 34.3 | 2,249.8 | 8.3 |
| Black, all ages | 3,692 | 11.9 | 117.9 | 24,104 | 12.7 | 769.4 | 6.5 |
| Under 15 years | 488 | 1.6 | 56.4 | 2,477 | 1.3 | 285.9 | 5.1 |
| 15-44 years | 1,703 | 5.5 | 111.8 | 8,734 | 4.6 | 573.5 | 5.1 |
| 45-64 years | 754 | 2.4 | 156.0 | 5,975 | 3.1 | 1,235.8 | 7.9 |
| 65 years and over | 747 | 2.4 | 287.6 | 6,917 | 3.6 | 2,662.5 | 9.3 |
| All other, all ages | 1,128 | 3.6 | 107.5 | 6,248 | 3.3 | 595.9 | 5.5 |
| Under 15 years | 116 | 0.4 | 42.8 | 574 | 0.3 | 211.2 | 4.9 |
| 15-44 years | 600 | 1.9 | 111.0 | 2,255 | 1.2 | 417.2 | 3.8 |
| 45-64 years | 203 | 0.7 | 119.5 | 1,403 | 0.7 | 826.2 | 6.9 |
| 65 years and over | 208 | 0.7 | 314.2 | 2,016 | 1.1 | 3,040.6 | 9.7 |
| Race not stated, all ages | 6,113 | 19.8 | ... | 34,477 | 18.1 | ... | 5.6 |
| Under 15 years | 570 | 1.8 | ... | 2,844 | 1.5 | ... | 5.0 |
| 15-44 years | 2,352 | 7.6 | ... | 9,632 | 5.1 | ... | 4.1 |
| 45-64 years | 1,134 | 3.7 | ... | 6,749 | 3.5 | ... | 6.0 |
| 65 years and over | 2,057 | 6.6 | ... | 15,252 | 8.0 | ... | 7.4 |
| Male | | | | | | | |
| All races, all ages | 12,406 | 100.0 | 100.8 | 83,664 | 100.0 | 679.7 | 6.7 |
| Under 15 years | 1,416 | 11.4 | 49.4 | 6,946 | 8.3 | 242.4 | 4.9 |
| 15-44 years | 3,162 | 25.5 | 54.4 | 19,108 | 22.8 | 328.8 | 6.0 |
| 45-64 years | 3,135 | 25.3 | 134.7 | 20,082 | 24.0 | 862.9 | 6.4 |
| 65 years and over | 4,692 | 37.8 | 359.7 | 37,527 | 44.9 | 2,876.7 | 8.0 |
| White, all ages | 8,134 | 65.6 | 78.8 | 54,527 | 65.2 | 528.2 | 6.7 |
| Under 15 years | 754 | 6.1 | 33.0 | 3,520 | 4.2 | 153.8 | 4.7 |
| 15-44 years | 1,894 | 15.3 | 39.2 | 10,793 | 12.9 | 223.6 | 5.7 |
| 45-64 years | 2,108 | 17.0 | 103.7 | 12,964 | 15.5 | 637.8 | 6.1 |
| 65 years and over | 3,378 | 27.2 | 287.4 | 27,251 | 32.6 | 2,318.4 | 8.1 |
| Black, all ages | 1,475 | 11.9 | 100.1 | 10,970 | 13.1 | 744.7 | 7.4 |
| Under 15 years | 281 | 2.3 | 64.1 | 1,432 | 1.7 | 326.5 | 5.1 |
| 15-44 years | 521 | 4.2 | 72.5 | 3,781 | 4.5 | 525.7 | 7.3 |
| 45-64 years | 361 | 2.9 | 167.7 | 3,034 | 3.6 | 1,408.6 | 8.4 |
| 65 years and over | 311 | 2.5 | 311.0 | 2,724 | 3.3 | 2,720.8 | 8.7 |
| All other, all ages | 385 | 3.1 | 75.3 | 2,800 | 3.3 | 547.6 | 7.3 |
| Under 15 years | 67 | 0.5 | 48.0 | 323 | 0.4 | 233.1 | 4.9 |
| 15-44 years | 117 | 0.9 | 44.1 | 736 | 0.9 | 278.4 | 6.3 |
| 45-64 years | 102 | 0.8 | 128.8 | 707 | 0.8 | 890.6 | 6.9 |
| 65 years and over | 99 | 0.8 | 343.5 | 1,034 | 1.2 | 3,577.5 | 10.4 |
| Race not stated, all ages | 2,412 | 19.4 | ... | 15,366 | 18.4 | ... | 6.4 |
| Under 15 years | 314 | 2.5 | ... | 1,672 | 2.0 | ... | 5.3 |
| 15-44 years | 631 | 5.1 | ... | 3,798 | 4.5 | ... | 6.0 |
| 45-64 years | 564 | 4.5 | ... | 3,377 | 4.0 | ... | 6.0 |
| 65 years and over | 904 | 7.3 | ... | 6,519 | 7.8 | ... | 7.2 |

Table 2. Number, percent distribution, and rate of patients discharged from short-stay hospitals and of days of care, with average lengths of stay, by sex, race, and age: United States, 1992—Con.

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

| Sex, race, and age | Discharged patients | | | Days of care | | | |
|-------------------------------------|---------------------|----------------------|---------------------------|---------------------|----------------------|---------------------------|--------------------------------|
| | Number in thousands | Percent distribution | Rate per 1,000 population | Number in thousands | Percent distribution | Rate per 1,000 population | Average length of stay in days |
| Female | | | | | | | |
| All races, all ages | 18,545 | 100.0 | 142.2 | 106,722 | 100.0 | 818.3 | 5.8 |
| Under 15 years | 1,115 | 6.0 | 40.8 | 5,342 | 5.0 | 195.6 | 4.8 |
| 15–44 years | 8,064 | 43.5 | 137.1 | 29,552 | 27.7 | 502.3 | 3.7 |
| 45–64 years | 3,194 | 17.2 | 127.6 | 19,870 | 18.6 | 793.8 | 6.2 |
| 65 years and over. | 6,172 | 33.3 | 320.8 | 51,957 | 48.7 | 2,700.5 | 8.4 |
| White, all ages | 11,884 | 64.1 | 109.6 | 71,030 | 66.6 | 655.0 | 6.0 |
| Under 15 years | 603 | 3.3 | 27.8 | 2,874 | 2.7 | 132.5 | 4.8 |
| 15–44 years | 4,678 | 25.2 | 97.4 | 17,246 | 16.2 | 359.0 | 3.7 |
| 45–64 years | 2,129 | 11.5 | 99.3 | 12,862 | 12.1 | 599.7 | 6.0 |
| 65 years and over. | 4,474 | 24.1 | 259.1 | 38,048 | 35.7 | 2,203.3 | 8.5 |
| Black, all ages | 2,217 | 12.0 | 133.6 | 13,133 | 12.3 | 791.4 | 5.9 |
| Under 15 years | 207 | 1.1 | 48.5 | 1,045 | 1.0 | 244.4 | 5.0 |
| 15–44 years | 1,181 | 6.4 | 146.9 | 4,953 | 4.6 | 616.2 | 4.2 |
| 45–64 years | 393 | 2.1 | 146.6 | 2,941 | 2.8 | 1,097.0 | 7.5 |
| 65 years and over. | 436 | 2.4 | 272.9 | 4,194 | 3.9 | 2,626.0 | 9.6 |
| All other, all ages. | 743 | 4.0 | 138.3 | 3,448 | 3.2 | 641.8 | 4.6 |
| Under 15 years | 50 | 0.3 | 37.3 | 251 | 0.2 | 188.4 | 5.1 |
| 15–44 years | 483 | 2.6 | 175.1 | 1,519 | 1.4 | 550.1 | 3.1 |
| 45–64 years | 101 | 0.5 | 111.4 | 696 | 0.7 | 770.5 | 6.9 |
| 65 years and over. | 109 | 0.6 | 291.6 | 982 | 0.9 | 2,625.8 | 9.0 |
| Race not stated, all ages | 3,701 | 20.0 | ... | 19,111 | 17.9 | ... | 5.2 |
| Under 15 years | 256 | 1.4 | ... | 1,172 | 1.1 | ... | 4.6 |
| 15–44 years | 1,722 | 9.3 | ... | 5,835 | 5.5 | ... | 3.4 |
| 45–64 years | 571 | 3.1 | ... | 3,371 | 3.2 | ... | 5.9 |
| 65 years and over. | 1,153 | 6.2 | ... | 8,733 | 8.2 | ... | 7.6 |

Table 3. Number of patients discharged from short-stay hospitals, days of care, and average lengths of stay, by principal expected source of payment, geographic region, and age: United States, 1992

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

| <i>Region and age</i> | <i>All principal expected sources of payment¹</i> | <i>Private insurance</i> | <i>Medicare</i> | <i>Medicaid</i> | <i>Worker's compensation</i> | <i>Other government payments</i> | <i>Self-pay</i> | <i>Other payments and no charge</i> |
|--|--|--------------------------|-----------------|-----------------|------------------------------|----------------------------------|-----------------|-------------------------------------|
| United States | | | | | | | | |
| Number of patients discharged in thousands | | | | | | | | |
| All ages | 30,951 | 10,214 | 10,850 | 4,140 | 341 | 535 | 1,865 | 1,163 |
| Under 15 years | 2,531 | 1,078 | 37 | 932 | — | 64 | 145 | 154 |
| 15–44 years | 11,227 | 5,278 | 457 | 2,463 | 182 | 310 | 995 | 613 |
| 45–64 years | 6,329 | 3,468 | 928 | 587 | 90 | 139 | 424 | 296 |
| 65 years and over | 10,864 | 390 | 9,427 | 158 | 69 | 23 | 301 | 99 |
| Northeast | | | | | | | | |
| All ages | 7,141 | 2,402 | 2,478 | 963 | 71 | 45 | 313 | 330 |
| Under 15 years | 570 | 260 | *7 | 162 | — | *7 | 32 | 69 |
| 15–44 years | 2,494 | 1,181 | 106 | 601 | 44 | 25 | 193 | 169 |
| 45–64 years | 1,553 | 862 | 207 | 167 | 21 | 11 | 78 | 76 |
| 65 years and over | 2,524 | 99 | 2,159 | 34 | *6 | * | 11 | 17 |
| Midwest | | | | | | | | |
| All ages | 7,121 | 2,584 | 2,776 | 884 | 50 | 121 | 303 | 206 |
| Under 15 years | 659 | 321 | * | 247 | — | 15 | 21 | 36 |
| 15–44 years | 2,394 | 1,327 | 94 | 500 | 30 | 78 | 177 | 101 |
| 45–64 years | 1,386 | 870 | 198 | 117 | 14 | 26 | 66 | 60 |
| 65 years and over | 2,683 | 66 | 2,480 | 20 | *6 | * | 39 | *9 |
| South | | | | | | | | |
| All ages | 11,256 | 3,768 | 4,283 | 1,550 | 121 | 269 | 671 | 266 |
| Under 15 years | 819 | 333 | 20 | 340 | — | 25 | 57 | 17 |
| 15–44 years | 4,066 | 1,970 | 181 | 941 | 79 | 147 | 412 | 161 |
| 45–64 years | 2,396 | 1,316 | 412 | 214 | 38 | 81 | 181 | 74 |
| 65 years and over | 3,975 | 149 | 3,670 | 56 | * | 17 | 21 | 14 |
| West | | | | | | | | |
| All ages | 5,433 | 1,460 | 1,313 | 742 | 98 | 100 | 578 | 360 |
| Under 15 years | 484 | 164 | *7 | 184 | — | 17 | 35 | 32 |
| 15–44 years | 2,273 | 800 | 77 | 421 | 29 | 60 | 214 | 183 |
| 45–64 years | 994 | 421 | 111 | 89 | 17 | 21 | 100 | 87 |
| 65 years and over | 1,683 | 76 | 1,118 | 48 | 52 | * | 230 | 59 |
| United States | | | | | | | | |
| Number of days of care in thousands | | | | | | | | |
| All ages | 190,386 | 47,591 | 89,589 | 22,553 | 1,691 | 3,123 | 9,870 | 6,069 |
| Under 15 years | 12,289 | 4,725 | 291 | 5,012 | — | 349 | 609 | 709 |
| 15–44 years | 48,660 | 20,729 | 3,597 | 11,153 | 831 | 1,603 | 4,335 | 2,907 |
| 45–64 years | 39,952 | 19,188 | 7,449 | 4,933 | 437 | 997 | 2,796 | 1,720 |
| 65 years and over | 89,484 | 2,949 | 78,252 | 1,455 | 423 | 174 | 2,130 | 734 |
| Northeast | | | | | | | | |
| All ages | 51,288 | 11,843 | 24,753 | 6,861 | 358 | 323 | 1,852 | 1,745 |
| Under 15 years | 2,681 | 1,092 | *68 | 838 | — | *27 | 165 | 351 |
| 15–44 years | 12,507 | 4,805 | 918 | 3,827 | 200 | 172 | 975 | 850 |
| 45–64 years | 10,984 | 5,060 | 2,008 | 1,775 | 106 | 96 | 634 | 431 |
| 65 years and over | 25,116 | 886 | 21,758 | 421 | *53 | * | 77 | 113 |
| Midwest | | | | | | | | |
| All ages | 43,903 | 12,088 | 22,164 | 4,903 | 227 | 708 | 1,706 | 1,043 |
| Under 15 years | 3,087 | 1,323 | * | 1,357 | — | 80 | 68 | 160 |
| 15–44 years | 10,914 | 5,428 | 843 | 2,429 | 123 | 427 | 888 | 454 |
| 45–64 years | 8,519 | 4,791 | 1,601 | 932 | 67 | 189 | 430 | 347 |
| 65 years and over | 21,384 | 545 | 19,692 | 185 | *37 | * | 320 | *82 |
| South | | | | | | | | |
| All ages | 67,141 | 17,775 | 33,043 | 7,414 | 609 | 1,607 | 3,223 | 1,402 |
| Under 15 years | 3,962 | 1,505 | 168 | 1,715 | — | 133 | 229 | 81 |
| 15–44 years | 17,227 | 7,855 | 1,419 | 3,512 | 380 | 743 | 1,732 | 743 |
| 45–64 years | 15,147 | 7,363 | 3,047 | 1,716 | 197 | 621 | 1,144 | 447 |
| 65 years and over | 30,804 | 1,052 | 28,409 | 471 | * | 110 | 120 | 131 |

¹Includes discharges for which no expected source of payment was provided.

Table 3. Number of patients discharged from short-stay hospitals, days of care, and average lengths of stay, by principal expected source of payment, geographic region, and age: United States, 1992—Con.

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

| <i>Region and age</i> | <i>All principal expected sources of payment¹</i> | <i>Private insurance</i> | <i>Medicare</i> | <i>Medicaid</i> | <i>Worker's compensation</i> | <i>Other government payments</i> | <i>Self-pay</i> | <i>Other payments and no charge</i> |
|-----------------------------|--|--|-----------------|-----------------|------------------------------|----------------------------------|-----------------|-------------------------------------|
| West | | Number of days of care in thousands | | | | | | |
| All ages | 28,053 | 5,886 | 9,629 | 3,375 | 497 | 485 | 3,089 | 1,879 |
| Under 15 years | 2,559 | 806 | *28 | 1,102 | — | 109 | 146 | 116 |
| 15–44 years | 8,012 | 2,641 | 417 | 1,386 | 129 | 261 | 740 | 859 |
| 45–64 years | 5,302 | 1,973 | 792 | 510 | 68 | 91 | 589 | 495 |
| 65 years and over | 12,180 | 466 | 8,392 | 377 | 301 | * | 1,613 | 408 |
| United States | | Average length of stay in days | | | | | | |
| All ages | 6.2 | 4.7 | 8.3 | 5.4 | 5.0 | 5.8 | 5.3 | 5.2 |
| Under 15 years | 4.9 | 4.4 | 7.8 | 5.4 | — | 5.5 | 4.2 | 4.6 |
| 15–44 years | 4.3 | 3.9 | 7.9 | 4.5 | 4.6 | 5.2 | 4.4 | 4.7 |
| 45–64 years | 6.3 | 5.5 | 8.0 | 8.4 | 4.9 | 7.2 | 6.6 | 5.8 |
| 65 years and over | 8.2 | 7.6 | 8.3 | 9.2 | 6.1 | 7.5 | 7.1 | 7.4 |
| Northeast | | | | | | | | |
| All ages | 7.2 | 4.9 | 10.0 | 7.1 | 5.0 | 7.2 | 5.9 | 5.3 |
| Under 15 years | 4.7 | 4.2 | *9.9 | 5.2 | — | *3.9 | 5.2 | 5.1 |
| 15–44 years | 5.0 | 4.1 | 8.7 | 6.4 | 4.5 | 6.9 | 5.1 | 5.0 |
| 45–64 years | 7.1 | 5.9 | 9.7 | 10.6 | 5.0 | 9.0 | 8.2 | 5.7 |
| 65 years and over | 10.0 | 8.9 | 10.1 | 12.6 | *8.8 | * | 7.1 | 6.8 |
| Midwest | | | | | | | | |
| All ages | 6.2 | 4.7 | 8.0 | 5.5 | 4.5 | 5.9 | 5.6 | 5.1 |
| Under 15 years | 4.7 | 4.1 | * | 5.5 | — | 5.3 | 3.3 | 4.4 |
| 15–44 years | 4.6 | 4.1 | 9.0 | 4.9 | 4.1 | 5.5 | 5.0 | 4.5 |
| 45–64 years | 6.1 | 5.5 | 8.1 | 8.0 | 4.9 | 7.3 | 6.5 | 5.8 |
| 65 years and over | 8.0 | 8.3 | 7.9 | 9.2 | *5.7 | * | 8.1 | *8.8 |
| South | | | | | | | | |
| All ages | 6.0 | 4.7 | 7.7 | 4.8 | 5.0 | 6.0 | 4.8 | 5.3 |
| Under 15 years | 4.8 | 4.5 | 8.3 | 5.1 | — | 5.4 | 4.0 | 4.7 |
| 15–44 years | 4.2 | 4.0 | 7.9 | 3.7 | 4.8 | 5.1 | 4.2 | 4.6 |
| 45–64 years | 6.3 | 5.6 | 7.4 | 8.0 | 5.2 | 7.7 | 6.3 | 6.0 |
| 65 years and over | 7.7 | 7.1 | 7.7 | 8.4 | * | 6.6 | 5.7 | 9.1 |
| West | | | | | | | | |
| All ages | 5.2 | 4.0 | 7.3 | 4.5 | 5.1 | 4.8 | 5.3 | 5.2 |
| Under 15 years | 5.3 | 4.9 | *4.3 | 6.0 | — | 6.4 | 4.2 | 3.6 |
| 15–44 years | 3.5 | 3.3 | 5.4 | 3.3 | 4.4 | 4.4 | 3.5 | 4.7 |
| 45–64 years | 5.3 | 4.7 | 7.1 | 5.7 | 4.0 | 4.4 | 5.9 | 5.7 |
| 65 years and over | 7.2 | 6.1 | 7.5 | 7.8 | 5.8 | * | 7.0 | 6.9 |

¹Includes discharges for which no expected source of payment was provided.

Table 4. Number and rate of patients discharged from short-stay hospitals and of days of care, with average lengths of stay, by sex, age, and geographic region: United States, 1992

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

| <i>Sex, age, and region</i> | <i>Discharged patients</i> | | <i>Days of care</i> | | <i>Average length of stay in days</i> |
|-----------------------------|----------------------------|----------------------------------|----------------------------|----------------------------------|---------------------------------------|
| | <i>Number in thousands</i> | <i>Rate per 1,000 population</i> | <i>Number in thousands</i> | <i>Rate per 1,000 population</i> | |
| Both sexes | | | | | |
| All ages: | | | | | |
| United States | 30,951 | 122.1 | 190,386 | 751.0 | 6.2 |
| Northeast | 7,141 | 139.9 | 51,288 | 1,005.1 | 7.2 |
| Midwest | 7,121 | 117.5 | 43,903 | 724.6 | 6.2 |
| South | 11,256 | 128.9 | 67,141 | 769.1 | 6.0 |
| West | 5,433 | 99.5 | 28,053 | 513.9 | 5.2 |
| Under 15 years: | | | | | |
| United States | 2,531 | 45.2 | 12,289 | 219.6 | 4.9 |
| Northeast | 570 | 55.0 | 2,681 | 258.7 | 4.7 |
| Midwest | 659 | 49.1 | 3,087 | 230.0 | 4.7 |
| South | 819 | 42.5 | 3,962 | 205.8 | 4.8 |
| West | 484 | 37.4 | 2,559 | 198.0 | 5.3 |
| 15-44 years: | | | | | |
| United States | 11,227 | 96.0 | 48,660 | 416.1 | 4.3 |
| Northeast | 2,494 | 106.8 | 12,507 | 535.8 | 5.0 |
| Midwest | 2,394 | 86.6 | 10,914 | 394.8 | 4.6 |
| South | 4,066 | 101.4 | 17,227 | 429.5 | 4.2 |
| West | 2,273 | 87.9 | 8,012 | 309.9 | 3.5 |
| 45-64 years: | | | | | |
| United States | 6,329 | 131.0 | 39,952 | 827.1 | 6.3 |
| Northeast | 1,553 | 152.3 | 10,984 | 1,077.1 | 7.1 |
| Midwest | 1,386 | 119.8 | 8,519 | 736.9 | 6.1 |
| South | 2,396 | 142.7 | 15,147 | 902.3 | 6.3 |
| West | 994 | 101.8 | 5,302 | 543.4 | 5.3 |
| 65 years and over: | | | | | |
| United States | 10,864 | 336.5 | 89,484 | 2,771.7 | 8.2 |
| Northeast | 2,524 | 354.2 | 25,116 | 3,525.1 | 10.0 |
| Midwest | 2,683 | 336.9 | 21,384 | 2,685.7 | 8.0 |
| South | 3,975 | 356.4 | 30,804 | 2,761.5 | 7.7 |
| West | 1,683 | 278.4 | 12,180 | 2,015.6 | 7.2 |
| Male | | | | | |
| All ages: | | | | | |
| United States | 12,406 | 100.8 | 83,664 | 679.7 | 6.7 |
| Northeast | 2,985 | 121.7 | 22,479 | 916.3 | 7.5 |
| Midwest | 2,924 | 99.4 | 19,570 | 665.4 | 6.7 |
| South | 4,472 | 106.2 | 29,287 | 695.9 | 6.5 |
| West | 2,026 | 74.9 | 12,328 | 455.7 | 6.1 |
| Under 15 years: | | | | | |
| United States | 1,416 | 49.4 | 6,946 | 242.4 | 4.9 |
| Northeast | 308 | 58.0 | 1,519 | 286.2 | 4.9 |
| Midwest | 375 | 54.6 | 1,737 | 252.7 | 4.6 |
| South | 468 | 47.6 | 2,300 | 233.6 | 4.9 |
| West | 264 | 39.9 | 1,390 | 209.9 | 5.3 |
| 15-44 years: | | | | | |
| United States | 3,162 | 54.4 | 19,108 | 328.8 | 6.0 |
| Northeast | 811 | 70.2 | 5,325 | 460.6 | 6.6 |
| Midwest | 694 | 50.5 | 4,425 | 321.8 | 6.4 |
| South | 1,124 | 57.0 | 6,323 | 320.9 | 5.6 |
| West | 533 | 40.7 | 3,035 | 231.8 | 5.7 |
| 45-64 years: | | | | | |
| United States | 3,135 | 134.7 | 20,082 | 862.9 | 6.4 |
| Northeast | 774 | 159.2 | 5,576 | 1,146.8 | 7.2 |
| Midwest | 697 | 124.6 | 4,264 | 762.0 | 6.1 |
| South | 1,176 | 146.4 | 7,642 | 951.6 | 6.5 |
| West | 489 | 102.1 | 2,601 | 543.4 | 5.3 |

Table 4. Number and rate of patients discharged from short-stay hospitals and of days of care, with average lengths of stay, by sex, age, and geographic region: United States, 1992—Con.

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

| <i>Sex, age, and region</i> | <i>Discharged patients</i> | | <i>Days of care</i> | | <i>Average length of stay in days</i> |
|-----------------------------|----------------------------|----------------------------------|----------------------------|----------------------------------|---------------------------------------|
| | <i>Number in thousands</i> | <i>Rate per 1,000 population</i> | <i>Number in thousands</i> | <i>Rate per 1,000 population</i> | |
| 65 years and over: | | | | | |
| United States | 4,692 | 359.7 | 37,527 | 2,876.7 | 8.0 |
| Northeast | 1,092 | 389.5 | 10,059 | 3,588.7 | 9.2 |
| Midwest | 1,157 | 362.9 | 9,144 | 2,867.4 | 7.9 |
| South | 1,704 | 378.1 | 13,022 | 2,890.0 | 7.6 |
| West | 739 | 290.4 | 5,301 | 2,082.3 | 7.2 |
| Female | | | | | |
| All ages: | | | | | |
| United States | 18,545 | 142.2 | 106,722 | 818.3 | 5.8 |
| Northeast | 4,156 | 156.9 | 28,810 | 1,087.4 | 6.9 |
| Midwest | 4,197 | 134.6 | 24,333 | 780.5 | 5.8 |
| South | 6,784 | 150.1 | 37,854 | 837.3 | 5.6 |
| West | 3,407 | 123.7 | 15,725 | 571.1 | 4.6 |
| Under 15 years: | | | | | |
| United States | 1,115 | 40.8 | 5,342 | 195.6 | 4.8 |
| Northeast | 262 | 51.9 | 1,162 | 229.9 | 4.4 |
| Midwest | 283 | 43.3 | 1,349 | 206.1 | 4.8 |
| South | 350 | 37.2 | 1,662 | 176.8 | 4.7 |
| West | 220 | 34.9 | 1,169 | 185.4 | 5.3 |
| 15–44 years: | | | | | |
| United States | 8,064 | 137.1 | 29,552 | 502.3 | 3.7 |
| Northeast | 1,682 | 142.8 | 7,182 | 609.6 | 4.3 |
| Midwest | 1,700 | 122.4 | 6,489 | 467.1 | 3.8 |
| South | 2,942 | 144.2 | 10,904 | 534.5 | 3.7 |
| West | 1,739 | 136.3 | 4,977 | 390.0 | 2.9 |
| 45–64 years: | | | | | |
| United States | 3,194 | 127.6 | 19,870 | 793.8 | 6.2 |
| Northeast | 780 | 148.9 | 5,408 | 1,032.9 | 6.9 |
| Midwest | 688 | 115.4 | 4,255 | 713.3 | 6.2 |
| South | 1,220 | 139.4 | 7,506 | 857.1 | 6.1 |
| West | 505 | 101.6 | 2,701 | 543.3 | 5.3 |
| 65 years and over: | | | | | |
| United States | 6,172 | 320.8 | 51,957 | 2,700.5 | 8.4 |
| Northeast | 1,432 | 331.2 | 15,057 | 3,483.0 | 10.5 |
| Midwest | 1,525 | 319.6 | 12,240 | 2,564.4 | 8.0 |
| South | 2,271 | 341.7 | 17,782 | 2,674.8 | 7.8 |
| West | 943 | 269.8 | 6,879 | 1,967.6 | 7.3 |

Table 5. Number, percent distribution, and rate of women with deliveries discharged from short-stay hospitals and of days of care, with average lengths of stay, by age, race, and geographic region: United States, 1992

[Discharges from non-Federal hospitals]

| Age, race, and region | Discharged patients | | | Days of care | | | Average length of stay in days |
|---------------------------|---------------------|----------------------|---------------------------|---------------------|----------------------|---------------------------|--------------------------------|
| | Number in thousands | Percent distribution | Rate per 1,000 population | Number in thousands | Percent distribution | Rate per 1,000 population | |
| 10-54 years | 3,910 | 100.0 | 47.9 | 10,040 | 100.0 | 122.9 | 2.6 |
| Age | | | | | | | |
| 10-14 years | 10 | 0.3 | 1.2 | 33 | 0.3 | 3.8 | 3.3 |
| 15-44 years | 3,895 | 99.6 | 66.2 | 9,991 | 99.5 | 169.8 | 2.6 |
| 15-19 years | 481 | 12.3 | 57.9 | 1,172 | 11.7 | 141.3 | 2.4 |
| 20-24 years | 1,032 | 26.4 | 111.1 | 2,503 | 24.9 | 269.5 | 2.4 |
| 25-29 years | 1,137 | 29.1 | 113.7 | 2,908 | 29.0 | 290.6 | 2.6 |
| 30-34 years | 850 | 21.7 | 76.3 | 2,272 | 22.6 | 204.0 | 2.7 |
| 35-44 years | 395 | 10.1 | 19.7 | 1,135 | 11.3 | 56.5 | 2.9 |
| 45-54 years | * | * | * | * | * | * | * |
| 10-17 years | 187 | 4.8 | 13.6 | 461 | 4.6 | 33.4 | 2.5 |
| 18-54 years | 3,722 | 95.2 | 54.8 | 9,579 | 95.4 | 141.1 | 2.6 |
| Race | | | | | | | |
| White | 2,148 | 55.0 | 32.1 | 5,507 | 54.8 | 82.2 | 2.6 |
| Black | 511 | 13.1 | 46.7 | 1,454 | 14.5 | 132.9 | 2.8 |
| All other | 334 | 8.5 | 89.3 | 779 | 7.8 | 208.4 | 2.3 |
| Race not stated | 916 | 23.4 | ... | 2,300 | 22.9 | ... | 2.5 |
| Region | | | | | | | |
| Northeast | 686 | 17.5 | 42.0 | 2,089 | 20.8 | 127.9 | 3.0 |
| Midwest | 816 | 20.9 | 42.1 | 2,092 | 20.8 | 107.9 | 2.6 |
| South | 1,350 | 34.5 | 47.6 | 3,553 | 35.4 | 125.3 | 2.6 |
| West | 1,057 | 27.0 | 60.1 | 2,306 | 23.0 | 131.0 | 2.2 |

Table 6. Number of patients discharged from short-stay hospitals, by age and first-listed diagnosis: United States, 1992

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

| First-listed diagnosis and ICD-9-CM code | All ages | Under 15 | 15-44 | 45-64 | 65 years |
|--|--|----------|--------|-------|----------|
| | | years | years | years | and over |
| | Number of patients discharged in thousands | | | | |
| All conditions | 30,951 | 2,531 | 11,227 | 6,329 | 10,864 |
| Infectious and parasitic diseases001-139 | 808 | 203 | 224 | 121 | 259 |
| Septicemia038 | 279 | 24 | 26 | 51 | 178 |
| Neoplasms140-239 | 1,999 | 57 | 372 | 632 | 938 |
| Malignant neoplasms140-208,230-234 | 1,577 | 41 | 185 | 500 | 852 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 161 | * | * | 44 | 111 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 215 | * | *7 | 86 | 122 |
| Malignant neoplasm of breast174-175,198.81 | 170 | * | 27 | 73 | 70 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 422 | 16 | 188 | 132 | 86 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 1,178 | 113 | 256 | 301 | 507 |
| Diabetes mellitus250 | 476 | 19 | 134 | 148 | 174 |
| Volume depletion276.5 | 308 | 65 | 42 | 48 | 153 |
| Diseases of the blood and blood-forming organs280-289 | 322 | 53 | 87 | 59 | 124 |
| Mental disorders290-319 | 1,711 | 73 | 1,029 | 352 | 257 |
| Psychoses290-299 | 908 | 26 | 480 | 207 | 195 |
| Alcohol dependence syndrome303 | 258 | * | 177 | 62 | 17 |
| Diseases of the nervous system and sense organs320-389 | 708 | 138 | 197 | 138 | 235 |
| Diseases of the central nervous system320-336,340-349 | 314 | 43 | 120 | 64 | 87 |
| Diseases of the ear and mastoid process380-389 | 145 | 72 | 21 | 18 | 34 |
| Diseases of the circulatory system390-459 | 5,597 | 33 | 401 | 1,631 | 3,532 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 3,935 | 21 | 242 | 1,185 | 2,487 |
| Acute myocardial infarction410 | 747 | * | 43 | 262 | 441 |
| Coronary atherosclerosis414.0 | 416 | * | 21 | 177 | 217 |
| Other ischemic heart disease411-413,414.1-414.9 | 971 | * | 62 | 350 | 559 |
| Cardiac dysrhythmias427 | 542 | *6 | 39 | 138 | 359 |
| Congestive heart failure428.0 | 822 | *7 | 19 | 144 | 651 |
| Cerebrovascular disease430-438 | 829 | * | 29 | 173 | 623 |
| Diseases of the respiratory system460-519 | 2,923 | 735 | 460 | 501 | 1,227 |
| Acute respiratory infections460-466 | 376 | 215 | 54 | 35 | 71 |
| Chronic disease of tonsils and adenoids474 | 73 | 51 | 20 | * | * |
| Pneumonia480-486 | 1,059 | 208 | 135 | 161 | 556 |
| Asthma493 | 463 | 193 | 117 | 78 | 76 |
| Diseases of the digestive system520-579 | 3,187 | 249 | 895 | 819 | 1,224 |
| Ulcers of the stomach and small intestine531-534 | 232 | * | 41 | 66 | 125 |
| Appendicitis540-543 | 227 | 55 | 135 | 26 | 11 |
| Inguinal hernia550 | 112 | 16 | 17 | 25 | 53 |
| Noninfectious enteritis and colitis555-558 | 354 | 92 | 110 | 60 | 91 |
| Cholelithiasis574 | 512 | * | 170 | 160 | 181 |
| Diseases of the genitourinary system580-629 | 2,018 | 75 | 772 | 480 | 691 |
| Calculus of kidney and ureter592 | 218 | * | 102 | 76 | 37 |
| Hyperplasia of prostate600 | 221 | - | * | 49 | 173 |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 662 | * | 659 | * | ... |
| Abortions and ectopic and molar pregnancies630-639 | 179 | * | 177 | * | ... |
| Diseases of the skin and subcutaneous tissue680-709 | 462 | 44 | 141 | 113 | 165 |
| Cellulitis and abscess681-682 | 307 | 25 | 94 | 82 | 106 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 1,610 | 38 | 508 | 466 | 598 |
| Arthropathies and related disorders710-719 | 554 | 13 | 122 | 132 | 288 |
| Intervertebral disc disorders722 | 407 | * | 198 | 147 | 62 |
| Congenital anomalies740-759 | 191 | 137 | 34 | 14 | *6 |
| Certain conditions originating in the perinatal period760-779 | 141 | 137 | * | - | * |
| Symptoms, signs, and ill-defined conditions780-799 | 350 | 66 | 141 | 90 | 53 |
| Injury and poisoning800-999 | 2,701 | 298 | 1,033 | 496 | 874 |
| Fractures, all sites800-829 | 1,016 | 98 | 316 | 149 | 453 |
| Fracture of neck of femur820 | 278 | * | 10 | 21 | 244 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 152 | 27 | 69 | 19 | 37 |
| Lacerations and open wounds870-904 | 180 | 25 | 117 | 21 | 16 |
| Supplementary classificationsV01-V82 | 4,383 | 80 | 4,017 | 116 | 170 |
| Females with deliveriesV27 | 3,910 | 10 | 3,895 | * | ... |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 7. Rate of patients discharged from short-stay hospitals, by age and first-listed diagnosis: United States, 1992

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

| First-listed diagnosis and ICD-9-CM code | All ages | Under 15 years | 15-44 years | 45-64 years | 65 years and over |
|--|---|----------------|-------------|-------------|-------------------|
| | Rate of patients discharged per 10,000 population | | | | |
| All conditions | 1,221.0 | 452.4 | 960.0 | 1,310.2 | 3,365.0 |
| Infectious and parasitic diseases001-139 | 31.9 | 36.3 | 19.2 | 25.0 | 80.3 |
| Septicemia038 | 11.0 | 4.4 | 2.2 | 10.5 | 55.0 |
| Neoplasms140-239 | 78.9 | 10.2 | 31.8 | 130.8 | 290.5 |
| Malignant neoplasms140-208,230-234 | 62.2 | 7.3 | 15.8 | 103.5 | 263.8 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 6.3 | * | * | 9.2 | 34.5 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 8.5 | * | *0.6 | 17.8 | 37.8 |
| Malignant neoplasm of breast174-175,198.81 | 6.7 | * | 2.3 | 15.1 | 21.7 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 16.6 | 2.9 | 16.0 | 27.3 | 26.7 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 46.5 | 20.2 | 21.9 | 62.4 | 157.1 |
| Diabetes mellitus250 | 18.8 | 3.4 | 11.5 | 30.7 | 53.9 |
| Volume depletion276.5 | 12.2 | 11.6 | 3.6 | 9.9 | 47.4 |
| Diseases of the blood and blood-forming organs280-289 | 12.7 | 9.4 | 7.4 | 12.2 | 38.4 |
| Mental disorders290-319 | 67.5 | 13.1 | 88.0 | 72.8 | 79.7 |
| Psychoses290-299 | 35.8 | 4.6 | 41.0 | 42.9 | 60.4 |
| Alcohol dependence syndrome303 | 10.2 | * | 15.2 | 12.8 | 5.2 |
| Diseases of the nervous system and sense organs320-389 | 27.9 | 24.7 | 16.8 | 28.5 | 72.8 |
| Diseases of the central nervous system320-336,340-349 | 12.4 | 7.7 | 10.2 | 13.2 | 26.8 |
| Diseases of the ear and mastoid process380-389 | 5.7 | 12.9 | 1.8 | 3.7 | 10.6 |
| Diseases of the circulatory system390-459 | 220.8 | 5.9 | 34.3 | 337.6 | 1,093.9 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 155.2 | 3.8 | 20.7 | 245.3 | 770.4 |
| Acute myocardial infarction410 | 29.5 | * | 3.7 | 54.2 | 136.6 |
| Coronary atherosclerosis414.0 | 16.4 | * | 1.8 | 36.7 | 67.2 |
| Other ischemic heart disease411-413,414.1-414.9 | 38.3 | * | 5.3 | 72.4 | 173.3 |
| Cardiac dysrhythmias427 | 21.4 | *1.1 | 3.4 | 28.5 | 111.1 |
| Congestive heart failure428.0 | 32.4 | *1.3 | 1.6 | 29.9 | 201.6 |
| Cerebrovascular disease430-438 | 32.7 | * | 2.5 | 35.7 | 193.0 |
| Diseases of the respiratory system460-519 | 115.3 | 131.3 | 39.3 | 103.7 | 380.0 |
| Acute respiratory infections460-466 | 14.8 | 38.5 | 4.6 | 7.3 | 22.1 |
| Chronic disease of tonsils and adenoids474 | 2.9 | 9.1 | 1.7 | * | * |
| Pneumonia480-486 | 41.8 | 37.2 | 11.5 | 33.2 | 172.1 |
| Asthma493 | 18.3 | 34.4 | 10.0 | 16.1 | 23.6 |
| Diseases of the digestive system520-579 | 125.7 | 44.5 | 76.6 | 169.6 | 379.2 |
| Ulcers of the stomach and small intestine531-534 | 9.1 | * | 3.5 | 13.6 | 38.7 |
| Appendicitis540-543 | 9.0 | 9.8 | 11.6 | 5.5 | 3.3 |
| Inguinal hernia550 | 4.4 | 2.9 | 1.5 | 5.1 | 16.4 |
| Noninfectious enteritis and colitis555-558 | 13.9 | 16.5 | 9.4 | 12.4 | 28.2 |
| Cholelithiasis574 | 20.2 | * | 14.5 | 33.1 | 56.1 |
| Diseases of the genitourinary system580-629 | 79.6 | 13.4 | 66.0 | 99.3 | 214.1 |
| Calculus of kidney and ureter592 | 8.6 | * | 8.8 | 15.8 | 11.5 |
| Hyperplasia of prostate600 | 8.7 | - | * | 10.0 | 53.5 |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 26.1 | * | 56.3 | * | ... |
| Abortions and ectopic and molar pregnancies630-639 | 7.0 | * | 15.2 | * | ... |
| Diseases of the skin and subcutaneous tissue680-709 | 18.2 | 7.9 | 12.0 | 23.3 | 51.1 |
| Cellulitis and abscess681-682 | 12.1 | 4.5 | 8.0 | 16.9 | 32.8 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 63.5 | 6.8 | 43.5 | 96.5 | 185.1 |
| Arthropathies and related disorders710-719 | 21.9 | 2.3 | 10.4 | 27.3 | 89.1 |
| Intervertebral disc disorders722 | 16.0 | * | 16.9 | 30.4 | 19.1 |
| Congenital anomalies740-759 | 7.6 | 24.5 | 2.9 | 2.9 | * |
| Certain conditions originating in the perinatal period760-779 | 5.6 | 24.6 | * | - | * |
| Symptoms, signs, and ill-defined conditions780-799 | 13.8 | 11.7 | 12.0 | 18.6 | 16.6 |
| Injury and poisoning800-999 | 106.6 | 53.3 | 88.3 | 102.7 | 270.7 |
| Fractures, all sites800-829 | 40.1 | 17.5 | 27.1 | 30.8 | 140.4 |
| Fracture of neck of femur820 | 11.0 | * | 0.9 | 4.2 | 75.7 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 6.0 | 4.9 | 5.9 | 3.9 | 11.4 |
| Lacerations and open wounds870-904 | 7.1 | 4.5 | 10.0 | 4.4 | 4.9 |
| Supplementary classificationsV01-V82 | 172.9 | 14.4 | 343.5 | 24.0 | 52.7 |
| Females with deliveriesV27 | 154.2 | 1.8 | 333.1 | * | ... |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 8. Average length of stay for patients discharged from short-stay hospitals, by age and first-listed diagnosis: United States, 1992

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

| First-listed diagnosis and ICD-9-CM code | All ages | Under 15 years | 15-44 years | 45-64 years | 65 years and over |
|---|----------|----------------|-------------|-------------|-------------------|
| | | | | | |
| All conditions | 6.2 | 4.9 | 4.3 | 6.3 | 8.2 |
| Infectious and parasitic diseases | 7.9 | 4.0 | 8.1 | 8.6 | 10.6 |
| Septicemia | 10.8 | 7.0 | 10.9 | 10.6 | 11.4 |
| Neoplasms | 7.7 | 7.0 | 5.5 | 7.4 | 8.8 |
| Malignant neoplasms | 8.5 | 7.8 | 7.0 | 8.3 | 9.0 |
| Malignant neoplasm of large intestine and rectum | 11.5 | * | * | 10.3 | 12.0 |
| Malignant neoplasm of trachea, bronchus, and lung | 8.3 | * | *11.2 | 8.1 | 8.3 |
| Malignant neoplasm of breast | 4.1 | * | 4.2 | 4.0 | 4.1 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature | 4.6 | 5.2 | 4.0 | 4.2 | 6.6 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders | 6.4 | 4.0 | 4.8 | 6.0 | 7.9 |
| Diabetes mellitus | 6.9 | 4.1 | 5.1 | 6.8 | 8.6 |
| Volume depletion | 6.4 | 3.0 | 4.0 | 5.8 | 8.8 |
| Diseases of the blood and blood-forming organs | 6.0 | 3.8 | 5.7 | 5.7 | 7.4 |
| Mental disorders | 10.9 | 16.4 | 10.2 | 10.6 | 12.4 |
| Psychoses | 12.9 | 18.4 | 12.2 | 13.1 | 13.8 |
| Alcohol dependence syndrome | 9.4 | * | 9.9 | 7.9 | 9.3 |
| Diseases of the nervous system and sense organs | 5.5 | 3.7 | 5.2 | 6.1 | 6.5 |
| Diseases of the central nervous system | 8.8 | 6.8 | 6.8 | 9.3 | 12.3 |
| Diseases of the ear and mastoid process | 2.6 | 2.3 | 2.0 | 2.5 | 3.8 |
| Diseases of the circulatory system | 7.0 | 7.4 | 5.4 | 6.2 | 7.6 |
| Heart disease | 6.7 | 7.9 | 5.3 | 5.7 | 7.2 |
| Acute myocardial infarction | 8.1 | * | 5.7 | 7.4 | 8.8 |
| Coronary atherosclerosis | 5.6 | * | 3.9 | 4.9 | 6.4 |
| Other ischemic heart disease | 5.0 | * | 3.6 | 4.3 | 5.5 |
| Cardiac dysrhythmias | 5.2 | *6.1 | 3.0 | 4.5 | 5.7 |
| Congestive heart failure | 7.9 | *9.7 | 6.6 | 6.9 | 8.2 |
| Cerebrovascular disease | 8.8 | * | 9.1 | 8.9 | 8.8 |
| Diseases of the respiratory system | 6.8 | 3.5 | 5.0 | 7.1 | 9.2 |
| Acute respiratory infections | 4.0 | 3.4 | 3.2 | 4.8 | 6.1 |
| Chronic disease of tonsils and adenoids | 1.3 | 1.2 | 1.4 | * | * |
| Pneumonia | 8.3 | 4.5 | 7.2 | 8.0 | 10.1 |
| Asthma | 4.3 | 2.9 | 4.0 | 6.1 | 6.6 |
| Diseases of the digestive system | 5.8 | 3.7 | 4.4 | 5.5 | 7.4 |
| Ulcers of the stomach and small intestine | 6.9 | * | 5.0 | 6.7 | 7.7 |
| Appendicitis | 4.4 | 4.1 | 4.0 | 5.8 | 8.5 |
| Inguinal hernia | 2.5 | 1.4 | 1.5 | 2.9 | 3.0 |
| Noninfectious enteritis and colitis | 4.9 | 2.7 | 4.9 | 4.7 | 7.3 |
| Cholelithiasis | 4.4 | * | 2.9 | 4.0 | 6.1 |
| Diseases of the genitourinary system | 4.7 | 4.0 | 3.6 | 4.2 | 6.3 |
| Calculus of kidney and ureter | 3.1 | * | 2.8 | 2.6 | 4.4 |
| Hyperplasia of prostate | 4.4 | - | * | 3.8 | 4.6 |
| Complications of pregnancy, childbirth, and the puerperium ¹ | 2.6 | * | 2.6 | * | ... |
| Abortions and ectopic and molar pregnancies | 2.0 | * | 2.0 | * | ... |
| Diseases of the skin and subcutaneous tissue | 7.8 | 3.9 | 5.5 | 7.9 | 10.6 |
| Cellulitis and abscess | 6.7 | 4.0 | 5.1 | 7.3 | 8.5 |
| Diseases of the musculoskeletal system and connective tissue | 6.2 | 5.5 | 3.9 | 5.2 | 9.1 |
| Arthropathies and related disorders | 7.3 | 7.0 | 3.3 | 6.4 | 9.3 |
| Intervertebral disc disorders | 4.4 | * | 3.7 | 4.2 | 7.1 |
| Congenital anomalies | 6.3 | 6.9 | 4.7 | 5.5 | *5.2 |
| Certain conditions originating in the perinatal period | 12.4 | 12.3 | * | - | * |
| Symptoms, signs, and ill-defined conditions | 3.0 | 2.6 | 2.6 | 2.7 | 4.7 |
| Injury and poisoning | 6.2 | 3.7 | 4.8 | 6.2 | 8.9 |
| Fractures, all sites | 7.7 | 4.3 | 5.7 | 6.8 | 10.2 |
| Fracture of neck of femur | 11.7 | * | 8.4 | 11.1 | 11.9 |
| Intracranial injuries (excluding those with skull fracture) | 5.5 | 2.3 | 4.9 | 6.9 | 8.3 |
| Lacerations and open wounds | 3.8 | 2.2 | 3.5 | 4.8 | 7.0 |
| Supplementary classifications | 3.1 | 4.1 | 2.6 | 6.1 | 11.9 |
| Females with deliveries | 2.6 | 3.3 | 2.6 | * | ... |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 9. Number of patients discharged from short-stay hospitals, by sex and first-listed diagnosis: United States, 1992[Discharges from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code number inclusions are based on the *International Classification of diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

| <i>First-listed diagnosis and ICD-9-CM code</i> | <i>Both sexes</i> | <i>Male</i> | <i>Female</i> |
|--|--|-------------|---------------|
| | Number of patients discharged in thousands | | |
| All conditions | 30,951 | 12,406 | 18,545 |
| Infectious and parasitic diseases001-139 | 808 | 403 | 404 |
| Septicemia038 | 279 | 131 | 148 |
| Neoplasms140-239 | 1,999 | 845 | 1,154 |
| Malignant neoplasms140-208,230-234 | 1,577 | 765 | 812 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 161 | 78 | 83 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 215 | 124 | 91 |
| Malignant neoplasm of breast174-175,198.81 | 170 | * | 169 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 422 | 79 | 342 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 1,178 | 487 | 691 |
| Diabetes mellitus250 | 476 | 207 | 269 |
| Volume depletion276.5 | 308 | 122 | 186 |
| Diseases of the blood and blood-forming organs280-289 | 322 | 137 | 185 |
| Mental disorders290-319 | 1,711 | 868 | 843 |
| Psychoses290-299 | 908 | 408 | 500 |
| Alcohol dependence syndrome303 | 258 | 196 | 63 |
| Diseases of the nervous system and sense organs320-389 | 708 | 330 | 378 |
| Diseases of the central nervous system320-336,340-349 | 314 | 147 | 167 |
| Diseases of the ear and mastoid process380-389 | 145 | 72 | 73 |
| Diseases of the circulatory system390-459 | 5,597 | 2,866 | 2,730 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 3,935 | 2,083 | 1,852 |
| Acute myocardial infarction410 | 747 | 458 | 289 |
| Coronary atherosclerosis414.0 | 416 | 285 | 130 |
| Other ischemic heart disease411-413,414.1-414.9 | 971 | 505 | 467 |
| Cardiac dysrhythmias427 | 542 | 256 | 286 |
| Congestive heart failure428.0 | 822 | 373 | 449 |
| Cerebrovascular disease430-438 | 829 | 375 | 454 |
| Diseases of the respiratory system460-519 | 2,923 | 1,436 | 1,486 |
| Acute respiratory infections460-466 | 376 | 187 | 189 |
| Chronic disease of tonsils and adenoids474 | 73 | 32 | 41 |
| Pneumonia480-486 | 1,059 | 535 | 524 |
| Asthma493 | 463 | 201 | 263 |
| Diseases of the digestive system520-579 | 3,187 | 1,392 | 1,795 |
| Ulcers of the stomach and small intestine531-534 | 232 | 115 | 117 |
| Appendicitis540-543 | 227 | 135 | 92 |
| Inguinal hernia550 | 112 | 98 | 14 |
| Noninfectious enteritis and colitis555-558 | 354 | 134 | 220 |
| Cholelithiasis574 | 512 | 154 | 358 |
| Diseases of the genitourinary system580-629 | 2,018 | 730 | 1,289 |
| Calculus of kidney and ureter592 | 218 | 143 | 75 |
| Hyperplasia of prostate600 | 221 | 221 | ... |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 662 | ... | 662 |
| Abortions and ectopic and molar pregnancies630-639 | 179 | ... | 179 |
| Diseases of the skin and subcutaneous tissue680-709 | 462 | 230 | 232 |
| Cellulitis and abscess681-682 | 307 | 158 | 148 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 1,610 | 714 | 896 |
| Arthropathies and related disorders710-719 | 554 | 212 | 342 |
| Intervertebral disc disorders722 | 407 | 222 | 185 |
| Congenital anomalies740-759 | 191 | 102 | 89 |
| Certain conditions originating in the perinatal period760-779 | 141 | 81 | 60 |
| Symptoms, signs, and ill-defined conditions780-799 | 350 | 173 | 177 |
| Injury and poisoning800-999 | 2,701 | 1,405 | 1,296 |
| Fractures, all sites800-829 | 1,016 | 465 | 552 |
| Fracture of neck of femur820 | 278 | 73 | 205 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 152 | 97 | 56 |
| Lacerations and open wounds870-904 | 180 | 130 | 50 |
| Supplementary classificationsV01-V82 | 4,383 | 207 | 4,176 |
| Females with deliveriesV27 | 3,910 | ... | 3,910 |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 10. Rate of patients discharged from short-stay hospitals, by sex and first-listed diagnosis: United States, 1992[Discharges from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code number inclusions are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

| <i>First-listed diagnosis and ICD-9-CM Code</i> | <i>Both sexes</i> | <i>Male</i> | <i>Female</i> |
|--|---|-------------|---------------|
| | Rate of patients discharged per 10,000 population | | |
| All conditions | 1,221.0 | 1,008.0 | 1,422.0 |
| Infectious and parasitic diseases001-139 | 31.9 | 32.8 | 31.0 |
| Septicemia038 | 11.0 | 10.6 | 11.4 |
| Neoplasms140-239 | 78.9 | 68.6 | 88.5 |
| Malignant neoplasms140-208,230-234 | 62.2 | 62.2 | 62.3 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 6.3 | 6.3 | 6.4 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 8.5 | 10.1 | 7.0 |
| Malignant neoplasm of breast174-175,198.81 | 6.7 | * | 13.0 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . .210-229,235-239 | 16.6 | 6.4 | 26.3 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 46.5 | 39.5 | 53.0 |
| Diabetes mellitus250 | 18.8 | 16.8 | 20.6 |
| Volume depletion276.5 | 12.2 | 9.9 | 14.2 |
| Diseases of the blood and blood-forming organs280-289 | 12.7 | 11.2 | 14.2 |
| Mental disorders290-319 | 67.5 | 70.5 | 64.7 |
| Psychoses290-299 | 35.8 | 33.2 | 38.3 |
| Alcohol dependence syndrome303 | 10.2 | 15.9 | 4.8 |
| Diseases of the nervous system and sense organs320-389 | 27.9 | 26.8 | 29.0 |
| Diseases of the central nervous system320-336,340-349 | 12.4 | 11.9 | 12.8 |
| Diseases of the ear and mastoid process380-389 | 5.7 | 5.8 | 5.6 |
| Diseases of the circulatory system390-459 | 220.8 | 232.9 | 209.4 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 155.2 | 169.3 | 142.0 |
| Acute myocardial infarction410 | 29.5 | 37.2 | 22.1 |
| Coronary atherosclerosis414.0 | 16.4 | 23.2 | 10.0 |
| Other ischemic heart disease411-413,414.1-414.9 | 38.3 | 41.0 | 35.8 |
| Cardiac dysrhythmias427 | 21.4 | 20.8 | 21.9 |
| Congestive heart failure428.0 | 32.4 | 30.3 | 34.4 |
| Cerebrovascular disease430-438 | 32.7 | 30.5 | 34.8 |
| Diseases of the respiratory system460-519 | 115.3 | 116.7 | 114.0 |
| Acute respiratory infections460-466 | 14.8 | 15.2 | 14.5 |
| Chronic disease of tonsils and adenoids474 | 2.9 | 2.6 | 3.2 |
| Pneumonia480-486 | 41.8 | 43.5 | 40.1 |
| Asthma493 | 18.0 | 16.3 | 20.1 |
| Diseases of the digestive system520-579 | 125.7 | 113.1 | 137.7 |
| Ulcers of the stomach and small intestine531-534 | 9.1 | 9.3 | 8.9 |
| Appendicitis540-543 | 9.0 | 11.0 | 7.1 |
| Inguinal hernia550 | 4.4 | 7.9 | 1.1 |
| Noninfectious enteritis and colitis555-558 | 13.9 | 10.9 | 16.8 |
| Cholelithiasis574 | 20.2 | 12.5 | 27.5 |
| Diseases of the genitourinary system580-629 | 79.6 | 59.3 | 98.8 |
| Calculus of kidney and ureter592 | 8.6 | 11.6 | 5.8 |
| Hyperplasia of prostate600 | 8.7 | 18.0 | ... |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 26.1 | ... | 50.8 |
| Abortions and ectopic and molar pregnancies630-639 | 7.0 | ... | 13.7 |
| Diseases of the skin and subcutaneous tissue680-709 | 18.2 | 18.7 | 17.8 |
| Cellulitis and abscess681-682 | 12.1 | 12.9 | 11.4 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 63.5 | 58.0 | 68.7 |
| Arthropathies and related disorders710-719 | 21.9 | 17.2 | 26.3 |
| Intervertebral disc disorders722 | 16.0 | 18.0 | 14.2 |
| Congenital anomalies740-759 | 7.6 | 8.3 | 6.8 |
| Certain conditions originating in the perinatal period760-779 | 5.6 | 6.6 | 4.6 |
| Symptoms, signs, and ill-defined conditions780-799 | 13.8 | 14.0 | 13.6 |
| Injury and poisoning800-999 | 106.6 | 114.1 | 99.4 |
| Fractures, all sites800-829 | 40.1 | 37.8 | 42.3 |
| Fracture of neck of femur820 | 11.0 | 5.9 | 15.7 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 6.0 | 7.9 | 4.3 |
| Lacerations and open wounds870-904 | 7.1 | 10.5 | 3.8 |
| Supplementary classificationsV01-V82 | 172.9 | 16.8 | 320.2 |
| Females with deliveriesV27 | 154.2 | ... | 299.8 |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 11. Average length of stay for patients discharged from short-stay hospitals, by sex and first-listed diagnosis: United States, 1992[Discharges from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code number inclusions are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

| First-listed diagnosis and ICD-9-CM code | Both sexes | Male | Female |
|--|--------------------------------|------|--------|
| | Average length of stay in days | | |
| All conditions | 6.2 | 6.7 | 5.8 |
| Infectious and parasitic diseases001-139 | 7.9 | 8.0 | 7.9 |
| Septicemia038 | 10.8 | 10.7 | 10.9 |
| Neoplasms140-239 | 7.7 | 8.6 | 7.0 |
| Malignant neoplasms140-208,230-234 | 8.5 | 8.9 | 8.2 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 11.5 | 11.0 | 11.9 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 8.3 | 8.1 | 8.6 |
| Malignant neoplasm of breast174-175,198.81 | 4.1 | * | 4.1 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 4.6 | 6.4 | 4.2 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 6.4 | 6.3 | 6.4 |
| Diabetes mellitus250 | 6.9 | 7.0 | 6.8 |
| Volume depletion276.5 | 6.4 | 6.1 | 6.6 |
| Diseases of the blood and blood-forming organs280-289 | 6.0 | 5.9 | 6.2 |
| Mental disorders290-319 | 10.9 | 10.2 | 11.5 |
| Psychoses290-299 | 12.9 | 12.0 | 13.7 |
| Alcohol dependence syndrome303 | 9.4 | 9.0 | 10.7 |
| Diseases of the nervous system and sense organs320-389 | 5.5 | 5.7 | 5.3 |
| Diseases of the central nervous system320-336,340-349 | 8.8 | 9.3 | 8.4 |
| Diseases of the ear and mastoid process380-389 | 2.6 | 2.5 | 2.8 |
| Diseases of the circulatory system390-459 | 7.0 | 6.9 | 7.2 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 6.7 | 6.4 | 7.0 |
| Acute myocardial infarction410 | 8.1 | 7.7 | 8.8 |
| Coronary atherosclerosis414.0 | 5.6 | 5.5 | 6.0 |
| Other ischemic heart disease411-413,414.1-414.9 | 5.0 | 4.9 | 5.1 |
| Cardiac dysrhythmias427 | 5.2 | 4.9 | 5.5 |
| Congestive heart failure428.0 | 7.9 | 7.8 | 8.0 |
| Cerebrovascular disease430-438 | 8.8 | 8.9 | 8.8 |
| Diseases of the respiratory system460-519 | 6.8 | 6.7 | 6.8 |
| Acute respiratory infections460-466 | 4.0 | 3.7 | 4.2 |
| Chronic disease of tonsils and adenoids474 | 1.3 | 1.4 | 1.2 |
| Pneumonia480-486 | 8.3 | 8.5 | 8.1 |
| Asthma493 | 4.3 | 3.6 | 4.9 |
| Diseases of the digestive system520-579 | 5.8 | 5.6 | 5.9 |
| Ulcers of the stomach and small intestine531-534 | 6.9 | 6.2 | 7.7 |
| Appendicitis540-543 | 4.4 | 4.4 | 4.5 |
| Inguinal hernia550 | 2.5 | 2.5 | 2.7 |
| Noninfectious enteritis and colitis555-558 | 4.9 | 4.9 | 4.9 |
| Cholelithiasis574 | 4.4 | 5.2 | 4.0 |
| Diseases of the genitourinary system580-629 | 4.7 | 5.0 | 4.5 |
| Calculus of kidney and ureter592 | 3.1 | 2.9 | 3.5 |
| Hyperplasia of prostate600 | 4.4 | 4.4 | ... |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 2.6 | ... | 2.6 |
| Abortions and ectopic and molar pregnancies630-639 | 2.0 | ... | 2.0 |
| Diseases of the skin and subcutaneous tissue680-709 | 7.8 | 7.1 | 8.4 |
| Cellulitis and abscess681-682 | 6.7 | 6.2 | 7.3 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 6.2 | 5.5 | 6.8 |
| Arthropathies and related disorders710-719 | 7.3 | 5.9 | 8.1 |
| Intervertebral disc disorders722 | 4.4 | 4.0 | 4.9 |
| Congenital anomalies740-759 | 6.3 | 6.8 | 5.8 |
| Certain conditions originating in the perinatal period760-779 | 12.4 | 13.5 | 10.7 |
| Symptoms, signs, and ill-defined conditions780-799 | 3.0 | 3.0 | 2.9 |
| Injury and poisoning800-999 | 6.2 | 5.8 | 6.7 |
| Fractures, all sites800-829 | 7.7 | 7.0 | 8.4 |
| Fracture of neck of femur820 | 11.7 | 11.9 | 11.6 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 5.5 | 5.1 | 6.3 |
| Lacerations and open wounds870-904 | 3.8 | 3.6 | 4.5 |
| Supplementary classificationsV01-V82 | 3.1 | 7.8 | 2.9 |
| Females with deliveriesV27 | 2.6 | ... | 2.6 |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 12. Number of patients discharged from short-stay hospitals, by race and first-listed diagnosis: United states, 1992

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

| First-listed diagnosis and ICD-9-CM code | All races | White | Black | All other | Not stated |
|--|--|--------|-------|--------------|---------------|
| | Number of patients discharged in thousands | | | | |
| All conditions | 30,951 | 20,018 | 3,692 | 1,128 | 6,113 |
| Infectious and parasitic diseases001-139 | 808 | 485 | 132 | 32 | 159 |
| Septicemia038 | 279 | 182 | 37 | *9 | 51 |
| Neoplasms140-239 | 1,999 | 1,387 | 203 | 61 | 348 |
| Malignant neoplasms140-208,230-234 | 1,577 | 1,120 | 138 | 46 | 273 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 161 | 118 | 12 | * | 27 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 215 | 161 | 16 | *5 | 33 |
| Malignant neoplasm of breast174-175,198.81 | 170 | 122 | 14 | * | 29 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature . . .210-229,235-239 | 422 | 267 | 65 | 15 | 75 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 1,178 | 741 | 191 | 33 | 213 |
| Diabetes mellitus250 | 476 | 274 | 102 | 14 | 86 |
| Volume depletion276.5 | 308 | 198 | 39 | *8 | 63 |
| Diseases of the blood and blood-forming organs280-289 | 322 | 180 | 79 | 11 | 52 |
| Mental disorders290-319 | 1,711 | 1,092 | 225 | 37 | 357 |
| Psychoses290-299 | 908 | 617 | 110 | 22 | 159 |
| Alcohol dependence syndrome303 | 258 | 140 | 37 | * | 77 |
| Diseases of the nervous system and sense organs320-389 | 708 | 472 | 83 | 21 | 132 |
| Diseases of the central nervous system320-336,340-349 | 314 | 204 | 40 | *8 | 62 |
| Diseases of the ear and mastoid process380-389 | 145 | 96 | 19 | *5 | 26 |
| Diseases of the circulatory system390-459 | 5,597 | 3,904 | 555 | 135 | 1,003 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 3,935 | 2,779 | 355 | 93 | 709 |
| Acute myocardial infarction410 | 747 | 536 | 61 | 18 | 131 |
| Coronary atherosclerosis414.0 | 416 | 312 | 13 | 11 | 79 |
| Other ischemic heart disease411-413,414.1-414.9 | 971 | 698 | 79 | 24 | 171 |
| Cardiac dysrhythmias427 | 542 | 391 | 36 | 13 | 102 |
| Congestive heart failure428.0 | 822 | 544 | 108 | 16 | 154 |
| Cerebrovascular disease430-438 | 829 | 574 | 93 | 21 | 141 |
| Diseases of the respiratory system460-519 | 2,923 | 1,854 | 418 | 94 | 557 |
| Acute respiratory infections460-466 | 376 | 226 | 57 | 14 | 79 |
| Chronic disease of tonsils and adenoids474 | 73 | 48 | *7 | * | 17 |
| Pneumonia480-486 | 1,059 | 687 | 132 | 34 | 206 |
| Asthma493 | 463 | 215 | 134 | 25 | 89 |
| Diseases of the digestive system520-579 | 3,187 | 2,137 | 316 | 99 | 636 |
| Ulcers of the stomach and small intestine531-534 | 232 | 148 | 24 | 12 | 48 |
| Appendicitis540-543 | 227 | 142 | 17 | 12 | 57 |
| Inguinal hernia550 | 112 | 84 | *9 | * | 16 |
| Noninfectious enteritis and colitis555-558 | 354 | 232 | 35 | 10 | 77 |
| Cholelithiasis574 | 512 | 350 | 35 | 22 | 105 |
| Diseases of the genitourinary system580-629 | 2,018 | 1,378 | 202 | 53 | 384 |
| Calculus of kidney and ureter592 | 218 | 158 | *9 | *6 | 45 |
| Hyperplasia of prostate600 | 221 | 151 | 16 | *5 | 50 |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 662 | 338 | 140 | 39 | 146 |
| Abortions and ectopic and molar pregnancies630-639 | 179 | 82 | 51 | 11 | 34 |
| Diseases of the skin and subcutaneous tissue680-709 | 462 | 296 | 65 | 14 | 87 |
| Cellulitis and abscess681-682 | 307 | 199 | 40 | *9 | 59 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 1,610 | 1,176 | 112 | 32 | 290 |
| Arthropathies and related disorders710-719 | 554 | 407 | 37 | 11 | 100 |
| Intervertebral disc disorders722 | 407 | 309 | 21 | *9 | 67 |
| Congenital anomalies740-759 | 191 | 113 | 20 | 11 | 47 |
| Certain conditions originating in the perinatal period760-779 | 141 | 72 | 22 | 11 | 37 |
| Symptoms, signs, and ill-defined conditions780-799 | 350 | 217 | 39 | *9 | 85 |
| Injury and poisoning800-999 | 2,701 | 1,733 | 332 | 83 | 553 |
| Fractures, all sites800-829 | 1,016 | 690 | 90 | 26 | 210 |
| Fracture of neck of femur820 | 278 | 208 | *9 | * | 58 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 152 | 91 | 21 | *6 | 34 |
| Lacerations and open wounds870-904 | 180 | 92 | 47 | 9 | 31 |
| Supplementary classificationsV01-V82 | 4,383 | 2,443 | 558 | 354 | 1,027 |
| Females with deliveriesV27 | 3,910 | 2,148 | 511 | 334 | 916 |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 13. Rate of patients discharged from short-stay hospitals, by race and first-listed diagnosis: United States, 1992

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

| <i>First-listed diagnosis and ICD-9-CM code</i> | <i>All races</i> | <i>White</i> | <i>Black</i> | <i>All other</i> | <i>Not stated</i> |
|--|---|--------------|--------------|------------------|-------------------|
| | Rate of patients discharged per 10,000 population | | | | |
| All conditions | 1,221.0 | 945.6 | 1,178.6 | 1,075.4 | ... |
| Infectious and parasitic diseases001-139 | 31.9 | 22.9 | 42.0 | 30.7 | ... |
| Septicemia038 | 11.0 | 8.6 | 11.9 | *8.3 | ... |
| Neoplasms140-239 | 78.9 | 65.5 | 64.9 | 57.8 | ... |
| Malignant neoplasms.140-208,230-234 | 62.2 | 52.9 | 44.2 | 43.6 | ... |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 6.3 | 5.6 | 4.0 | * | ... |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 8.5 | 7.6 | 5.2 | *4.7 | ... |
| Malignant neoplasm of breast174-175,198.81 | 6.7 | 5.8 | 4.6 | * | ... |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 16.6 | 12.6 | 20.7 | 14.2 | ... |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 46.5 | 35.0 | 60.9 | 31.2 | ... |
| Diabetes mellitus250 | 18.8 | 12.9 | 32.5 | 13.0 | ... |
| Volume depletion276.5 | 12.2 | 9.4 | 12.5 | *7.5 | ... |
| Diseases of the blood and blood-forming organs280-289 | 12.7 | 8.5 | 25.4 | 10.9 | ... |
| Mental disorders290-319 | 67.5 | 51.6 | 72.0 | 35.0 | ... |
| Psychoses290-299 | 35.8 | 29.1 | 35.1 | 21.4 | ... |
| Alcohol dependence syndrome303 | 10.2 | 6.6 | 12.0 | * | ... |
| Diseases of the nervous system and sense organs320-389 | 27.9 | 22.3 | 26.5 | 19.8 | ... |
| Diseases of the central nervous system320-336,340-349 | 12.4 | 9.6 | 12.8 | *7.4 | ... |
| Diseases of the ear and mastoid process380-389 | 5.7 | 4.5 | 6.0 | *4.7 | ... |
| Diseases of the circulatory system390-459 | 220.8 | 184.4 | 177.1 | 128.8 | ... |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 155.2 | 131.3 | 113.3 | 88.7 | ... |
| Acute myocardial infarction410 | 29.5 | 25.3 | 19.6 | 17.5 | ... |
| Coronary atherosclerosis414.0 | 16.4 | 14.7 | 4.3 | 10.3 | ... |
| Other ischemic heart disease411-413,414.1-414.9 | 38.3 | 33.0 | 25.1 | 23.3 | ... |
| Cardiac dysrhythmias427 | 21.4 | 18.5 | 11.4 | 12.6 | ... |
| Congestive heart failure428.0 | 32.4 | 25.7 | 34.4 | 15.6 | ... |
| Cerebrovascular disease430-438 | 32.7 | 27.1 | 29.7 | 20.0 | ... |
| Diseases of the respiratory system460-519 | 115.3 | 87.6 | 133.4 | 89.7 | ... |
| Acute respiratory infections460-466 | 14.8 | 10.7 | 18.1 | 13.8 | ... |
| Chronic disease of tonsils and adenoids474 | 2.9 | 2.3 | *2.1 | * | ... |
| Pneumonia480-486 | 41.8 | 32.4 | 42.2 | 32.5 | ... |
| Asthma493 | 18.3 | 10.2 | 42.9 | 23.6 | ... |
| Diseases of the digestive system520-579 | 125.7 | 100.9 | 100.8 | 94.4 | ... |
| Ulcers of the stomach and small intestine531-534 | 9.1 | 7.0 | 7.7 | 11.4 | ... |
| Appendicitis540-543 | 9.0 | 6.7 | 5.3 | 11.5 | ... |
| Inguinal hernia550 | 4.4 | 4.0 | *2.7 | * | ... |
| Noninfectious enteritis and colitis555-558 | 13.9 | 10.9 | 11.0 | 9.4 | ... |
| Cholelithiasis574 | 20.2 | 16.5 | 11.2 | 20.8 | ... |
| Diseases of the genitourinary system580-629 | 79.6 | 65.1 | 64.5 | 50.8 | ... |
| Calculus of kidney and ureter592 | 8.6 | 7.5 | *2.8 | *6.0 | ... |
| Hyperplasia of prostate600 | 8.7 | 7.1 | 5.0 | *4.5 | ... |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 26.1 | 16.0 | 44.6 | 37.0 | ... |
| Abortions and ectopic and molar pregnancies630-639 | 7.0 | 3.9 | 16.4 | 10.9 | ... |
| Diseases of the skin and subcutaneous tissue680-709 | 18.2 | 14.0 | 20.8 | 13.3 | ... |
| Cellulitis and abscess681-682 | 12.1 | 9.4 | 12.8 | *8.4 | ... |
| Diseases of the musculoskeletal system and connective tissue710-739 | 63.5 | 55.6 | 35.8 | 30.0 | ... |
| Arthropathies and related disorders710-719 | 21.9 | 19.2 | 11.7 | 10.0 | ... |
| Intervertebral disc disorders722 | 16.0 | 14.6 | 6.8 | *8.4 | ... |
| Congenital anomalies740-759 | 7.6 | 5.3 | 6.3 | 10.7 | ... |
| Certain conditions originating in the perinatal period760-779 | 5.6 | 3.4 | 7.0 | 10.1 | ... |
| Symptoms, signs, and ill-defined conditions780-799 | 13.8 | 10.2 | 12.4 | 8.7 | ... |
| Injury and poisoning800-999 | 106.6 | 81.9 | 105.9 | 79.1 | ... |
| Fractures, all sites800-829 | 40.1 | 32.6 | 28.6 | 25.1 | ... |
| Fracture of neck of femur820 | 11.0 | 9.8 | *2.8 | * | ... |
| Intracranial injuries (excluding those with skull fracture)850-854 | 6.0 | 4.3 | 6.7 | *5.9 | ... |
| Lacerations and open wounds870-904 | 7.1 | 4.4 | 15.0 | 8.6 | ... |
| Supplementary classificationsV01-V82 | 172.9 | 115.4 | 178.3 | 337.6 | ... |
| Females with deliveriesV27 | 154.2 | 101.5 | 163.2 | 318.4 | ... |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey. Rates for race categories may be underestimated because race was not reported for all discharged patients.

Table 14. Average length of stay for patients discharged from short-stay hospitals, by race and first-listed diagnosis: United States, 1992

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

| First-listed diagnosis and ICD-9-CM code | All races | White | Black | All other | Not stated |
|--|--------------------------------|-------|-------|--------------|---------------|
| | Average length of stay in days | | | | |
| All conditions | 6.2 | 6.3 | 6.5 | 5.5 | 5.6 |
| Infectious and parasitic diseases001-139 | 7.9 | 7.9 | 9.1 | 9.4 | 6.7 |
| Septicemia038 | 10.8 | 11.1 | 10.9 | *12.6 | 9.3 |
| Neoplasms140-239 | 7.7 | 7.6 | 8.7 | 8.6 | 7.5 |
| Malignant neoplasms.140-208,230-234 | 8.5 | 8.3 | 10.3 | 9.9 | 8.2 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 11.5 | 11.5 | 12.9 | * | 10.6 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 8.3 | 7.9 | 11.2 | *9.2 | 8.7 |
| Malignant neoplasm of breast174-175,198.81 | 4.1 | 3.6 | 6.0 | * | 3.9 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 4.6 | 4.4 | 5.3 | 4.8 | 4.7 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 6.4 | 6.3 | 7.0 | 6.9 | 5.8 |
| Diabetes mellitus250 | 6.9 | 7.0 | 7.1 | 8.3 | 6.1 |
| Volume depletion276.5 | 6.4 | 6.6 | 7.3 | *6.8 | 5.4 |
| Diseases of the blood and blood-forming organs280-289 | 6.0 | 6.1 | 6.3 | 5.4 | 5.7 |
| Mental disorders290-319 | 10.9 | 11.0 | 10.7 | 12.8 | 10.3 |
| Psychoses290-299 | 12.9 | 12.9 | 13.4 | 15.4 | 12.4 |
| Alcohol dependence syndrome303 | 9.4 | 9.0 | 8.2 | * | 10.7 |
| Diseases of the nervous system and sense organs320-389 | 5.5 | 5.4 | 5.8 | 4.1 | 5.8 |
| Diseases of the central nervous system320-336,340-349 | 8.8 | 9.0 | 8.7 | *7.2 | 8.7 |
| Diseases of the ear and mastoid process380-389 | 2.6 | 2.6 | 2.6 | *2.5 | 2.8 |
| Diseases of the circulatory system390-459 | 7.0 | 7.1 | 7.6 | 8.1 | 6.3 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 6.7 | 6.8 | 7.1 | 7.1 | 6.0 |
| Acute myocardial infarction410 | 8.1 | 8.2 | 8.8 | 7.5 | 7.3 |
| Coronary atherosclerosis414.0 | 5.6 | 5.6 | 6.5 | 8.8 | 5.1 |
| Other ischemic heart disease411-413,414.1-414.9 | 5.0 | 5.0 | 5.0 | 6.4 | 4.6 |
| Cardiac dysrhythmias427 | 5.2 | 5.4 | 5.6 | 5.1 | 4.6 |
| Congestive heart failure428.0 | 7.9 | 8.3 | 7.4 | 6.7 | 6.9 |
| Cerebrovascular disease430-438 | 8.8 | 8.7 | 10.3 | 11.2 | 8.0 |
| Diseases of the respiratory system460-519 | 6.8 | 7.1 | 6.4 | 6.5 | 6.0 |
| Acute respiratory infections460-466 | 4.0 | 4.0 | 4.1 | 3.0 | 4.0 |
| Chronic disease of tonsils and adenoids474 | 1.3 | 1.2 | *1.8 | * | 1.3 |
| Pneumonia480-486 | 8.3 | 8.6 | 8.3 | 7.5 | 7.4 |
| Asthma493 | 4.3 | 4.6 | 4.3 | 4.3 | 3.9 |
| Diseases of the digestive system520-579 | 5.8 | 5.8 | 6.4 | 5.5 | 5.3 |
| Ulcers of the stomach and small intestine531-534 | 6.9 | 7.3 | 7.9 | 5.5 | 5.7 |
| Appendicitis540-543 | 4.4 | 4.5 | 4.7 | 3.9 | 4.2 |
| Inguinal hernia550 | 2.5 | 2.5 | *2.2 | * | 2.8 |
| Noninfectious enteritis and colitis555-558 | 4.9 | 5.1 | 5.0 | 4.7 | 4.1 |
| Cholelithiasis574 | 4.4 | 4.5 | 4.6 | 4.5 | 4.0 |
| Diseases of the genitourinary system580-629 | 4.7 | 4.5 | 5.9 | 4.6 | 4.5 |
| Calculus of kidney and ureter592 | 3.1 | 3.1 | *4.7 | *3.7 | 2.6 |
| Hyperplasia of prostate600 | 4.4 | 4.3 | 4.5 | *3.8 | 4.6 |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 2.6 | 2.5 | 2.7 | 2.6 | 2.5 |
| Abortions and ectopic and molar pregnancies630-639 | 2.0 | 1.8 | 2.2 | 2.0 | 1.9 |
| Diseases of the skin and subcutaneous tissue680-709 | 7.8 | 7.4 | 9.4 | 8.6 | 7.7 |
| Cellulitis and abscess681-682 | 6.7 | 6.8 | 6.8 | *7.9 | 6.5 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 6.2 | 6.3 | 6.7 | 5.7 | 5.6 |
| Arthropathies and related disorders710-719 | 7.3 | 7.5 | 7.4 | 6.2 | 6.2 |
| Intervertebral disc disorders722 | 4.4 | 4.4 | 4.7 | *4.6 | 4.3 |
| Congenital anomalies740-759 | 6.3 | 5.7 | 8.6 | 6.1 | 7.0 |
| Certain conditions originating in the perinatal period760-779 | 12.4 | 9.7 | 18.7 | 16.0 | 12.6 |
| Symptoms, signs, and ill-defined conditions780-799 | 3.0 | 2.9 | 3.2 | 2.4 | 3.2 |
| Injury and poisoning800-999 | 6.2 | 6.5 | 6.2 | 5.8 | 5.5 |
| Fractures, all sites800-829 | 7.7 | 8.0 | 7.6 | 7.3 | 6.9 |
| Fracture of neck of femur820 | 11.7 | 12.1 | *16.2 | * | 9.6 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 5.5 | 6.2 | 5.9 | *3.0 | 3.8 |
| Lacerations and open wounds870-904 | 3.8 | 3.9 | 3.3 | 6.9 | 3.5 |
| Supplementary classificationsV01-V82 | 3.1 | 3.1 | 3.2 | 2.7 | 3.2 |
| Females with deliveriesV27 | 2.6 | 2.6 | 2.8 | 2.3 | 2.5 |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 15. Number of patients discharged from short-stay hospitals, by geographic region and first-listed diagnosis: United States, 1992

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

| First-listed diagnosis and ICD-9-CM code | United States | Northeast | Midwest | South | West |
|--|--|-----------|---------|--------|-------|
| | Number of patients discharged in thousands | | | | |
| All conditions | 30,951 | 7,141 | 7,121 | 11,256 | 5,433 |
| Infectious and parasitic diseases001-139 | 808 | 176 | 173 | 302 | 157 |
| Septicemia038 | 279 | 57 | 57 | 112 | 53 |
| Neoplasms140-239 | 1,999 | 506 | 409 | 721 | 363 |
| Malignant neoplasms.140-208,230-234 | 1,577 | 397 | 320 | 581 | 279 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 161 | 39 | 36 | 61 | 25 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 215 | 49 | 37 | 95 | 35 |
| Malignant neoplasm of breast174-175,198.81 | 170 | 44 | 39 | 57 | 30 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 422 | 109 | 90 | 140 | 84 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 1,178 | 252 | 271 | 485 | 169 |
| Diabetes mellitus250 | 476 | 98 | 102 | 206 | 70 |
| Volume depletion276.5 | 308 | 67 | 72 | 125 | 44 |
| Diseases of the blood and blood-forming organs280-289 | 322 | 80 | 77 | 111 | 54 |
| Mental disorders290-319 | 1,711 | 526 | 468 | 521 | 196 |
| Psychoses290-299 | 908 | 288 | 227 | 283 | 111 |
| Alcohol dependence syndrome303 | 258 | 66 | 93 | 79 | 20 |
| Diseases of the nervous system and sense organs320-389 | 708 | 214 | 153 | 237 | 104 |
| Diseases of the central nervous system320-336,340-349 | 314 | 72 | 75 | 113 | 53 |
| Diseases of the ear and mastoid process380-389 | 145 | 53 | 31 | 46 | 16 |
| Diseases of the circulatory system390-459 | 5,597 | 1,371 | 1,311 | 2,059 | 855 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 3,935 | 982 | 917 | 1,431 | 606 |
| Acute myocardial infarction410 | 747 | 194 | 181 | 255 | 117 |
| Coronary atherosclerosis414.0 | 416 | 108 | 100 | 141 | 67 |
| Other ischemic heart disease.411-413,414.1-414.9 | 971 | 237 | 228 | 345 | 161 |
| Cardiac dysrhythmias.427 | 542 | 136 | 113 | 213 | 80 |
| Congestive heart failure428.0 | 822 | 199 | 194 | 322 | 107 |
| Cerebrovascular disease430-438 | 829 | 183 | 199 | 319 | 127 |
| Diseases of the respiratory system460-519 | 2,923 | 635 | 704 | 1,139 | 445 |
| Acute respiratory infections460-466 | 376 | 72 | 94 | 154 | 56 |
| Chronic disease of tonsils and adenoids.474 | 73 | 36 | 19 | 11 | *7 |
| Pneumonia.480-486 | 1,059 | 195 | 264 | 434 | 166 |
| Asthma493 | 463 | 116 | 113 | 152 | 83 |
| Diseases of the digestive system.520-579 | 3,187 | 728 | 715 | 1,206 | 538 |
| Ulcers of the stomach and small intestine.531-534 | 232 | 47 | 52 | 84 | 48 |
| Appendicitis540-543 | 227 | 40 | 51 | 83 | 52 |
| Inguinal hernia.550 | 112 | 44 | 24 | 34 | 9 |
| Noninfectious enteritis and colitis555-558 | 354 | 83 | 81 | 144 | 46 |
| Cholelithiasis.574 | 512 | 115 | 105 | 193 | 99 |
| Diseases of the genitourinary system580-629 | 2,018 | 426 | 461 | 817 | 315 |
| Calculus of kidney and ureter592 | 218 | 42 | 55 | 94 | 28 |
| Hyperplasia of prostate600 | 221 | 46 | 58 | 84 | 34 |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 662 | 168 | 126 | 244 | 124 |
| Abortions and ectopic and molar pregnancies630-639 | 179 | 60 | 28 | 61 | 30 |
| Diseases of the skin and subcutaneous tissue680-709 | 462 | 124 | 113 | 159 | 66 |
| Cellulitis and abscess681-682 | 307 | 79 | 77 | 101 | 49 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 1,610 | 372 | 403 | 570 | 265 |
| Arthropathies and related disorders.710-719 | 554 | 128 | 158 | 169 | 99 |
| Intervertebral disc disorders722 | 407 | 79 | 88 | 170 | 70 |
| Congenital anomalies740-759 | 191 | 58 | 45 | 44 | 44 |
| Certain conditions originating in the perinatal period760-779 | 141 | 25 | 33 | 39 | 43 |
| Symptoms, signs, and ill-defined conditions780-799 | 350 | 78 | 70 | 148 | 53 |
| Injury and poisoning.800-999 | 2,701 | 589 | 617 | 993 | 502 |
| Fractures, all sites800-829 | 1,016 | 213 | 248 | 372 | 184 |
| Fracture of neck of femur820 | 278 | 59 | 76 | 96 | 47 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 152 | 35 | 40 | 50 | 26 |
| Lacerations and open wounds870-904 | 180 | 36 | 38 | 74 | 32 |
| Supplementary classificationsV01-V82 | 4,383 | 811 | 971 | 1,461 | 1,140 |
| Females with deliveriesV27 | 3,910 | 686 | 816 | 1,350 | 1,057 |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 16. Rate of patients discharged from short-stay hospitals, by geographic region and first-listed diagnosis: United States, 1992

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

| First-listed diagnosis and ICD-9-CM code | United States | Northeast | Midwest | South | West |
|--|---|-----------|---------|---------|-------|
| | Rate of patients discharged per 10,000 population | | | | |
| All conditions | 1,221.0 | 1,399.5 | 1,175.4 | 1,289.3 | 995.3 |
| Infectious and parasitic diseases001-139 | 31.9 | 34.5 | 28.5 | 34.6 | 28.7 |
| Septicemia038 | 11.0 | 11.2 | 9.4 | 12.9 | 9.6 |
| Neoplasms140-239 | 78.9 | 99.2 | 67.5 | 82.6 | 66.4 |
| Malignant neoplasms140-208,230-234 | 62.2 | 77.9 | 52.7 | 66.6 | 51.1 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 6.3 | 7.6 | 6.0 | 7.0 | 4.6 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 8.5 | 9.6 | 6.0 | 10.8 | 6.4 |
| Malignant neoplasm of breast174-175,198.81 | 6.7 | 8.6 | 6.4 | 6.5 | 5.5 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 16.6 | 21.3 | 14.8 | 16.0 | 15.3 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 46.5 | 49.4 | 44.8 | 55.6 | 31.0 |
| Diabetes mellitus250 | 18.8 | 19.2 | 16.9 | 23.6 | 12.8 |
| Volume depletion276.5 | 12.2 | 13.2 | 12.0 | 14.3 | 8.0 |
| Diseases of the blood and blood-forming organs280-289 | 12.7 | 15.7 | 12.7 | 12.8 | 9.9 |
| Mental disorders290-319 | 67.5 | 103.1 | 77.3 | 59.7 | 36.0 |
| Psychoses290-299 | 35.8 | 56.4 | 37.5 | 32.4 | 20.3 |
| Alcohol dependence syndrome303 | 10.2 | 13.0 | 15.3 | 9.0 | 3.7 |
| Diseases of the nervous system and sense organs320-389 | 27.9 | 41.9 | 25.2 | 27.1 | 19.1 |
| Diseases of the central nervous system320-336,340-349 | 12.4 | 14.1 | 12.4 | 13.0 | 9.7 |
| Diseases of the ear and mastoid process380-389 | 5.7 | 10.3 | 5.1 | 5.2 | 3.0 |
| Diseases of the circulatory system390-459 | 220.8 | 268.8 | 216.5 | 235.8 | 156.7 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 155.2 | 192.4 | 151.3 | 163.9 | 111.0 |
| Acute myocardial infarction410 | 29.5 | 38.1 | 29.9 | 29.2 | 21.4 |
| Coronary atherosclerosis414.0 | 16.4 | 21.2 | 16.5 | 16.1 | 12.3 |
| Other ischemic heart disease411-413,414.1-414.9 | 38.3 | 46.5 | 37.6 | 39.6 | 29.5 |
| Cardiac dysrhythmias427 | 21.4 | 26.7 | 18.6 | 24.4 | 14.6 |
| Congestive heart failure428.0 | 32.4 | 39.0 | 31.9 | 36.8 | 19.7 |
| Cerebrovascular disease430-438 | 32.7 | 35.9 | 32.9 | 36.5 | 23.3 |
| Diseases of the respiratory system460-519 | 115.3 | 124.4 | 116.2 | 130.4 | 81.6 |
| Acute respiratory infections460-466 | 14.8 | 14.1 | 15.6 | 17.6 | 10.2 |
| Chronic disease of tonsils and adenoids474 | 2.9 | 7.1 | 3.1 | 1.2 | *1.3 |
| Pneumonia480-486 | 41.8 | 38.2 | 43.6 | 49.7 | 30.4 |
| Asthma493 | 18.3 | 22.8 | 18.6 | 17.4 | 15.1 |
| Diseases of the digestive system520-579 | 125.7 | 142.8 | 118.0 | 138.2 | 98.5 |
| Ulcers of the stomach and small intestine531-534 | 9.1 | 9.2 | 8.6 | 9.6 | 8.9 |
| Appendicitis540-543 | 9.0 | 7.9 | 8.5 | 9.6 | 9.6 |
| Inguinal hernia550 | 4.4 | 8.7 | 4.0 | 3.9 | 1.7 |
| Noninfectious enteritis and colitis555-558 | 13.9 | 16.3 | 13.3 | 16.5 | 8.4 |
| Cholelithiasis574 | 20.2 | 22.5 | 17.3 | 22.1 | 18.1 |
| Diseases of the genitourinary system580-629 | 79.6 | 83.4 | 76.0 | 93.6 | 57.7 |
| Calculus of kidney and ureter592 | 8.6 | 8.2 | 9.0 | 10.7 | 5.1 |
| Hyperplasia of prostate600 | 8.7 | 9.1 | 9.5 | 9.6 | 6.2 |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 26.1 | 33.0 | 20.8 | 28.0 | 22.6 |
| Abortions and ectopic and molar pregnancies630-639 | 7.0 | 11.9 | 4.5 | 6.9 | 5.5 |
| Diseases of the skin and subcutaneous tissue680-709 | 18.2 | 24.3 | 18.6 | 18.3 | 12.1 |
| Cellulitis and abscess681-682 | 12.1 | 15.4 | 12.8 | 11.6 | 9.1 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 63.5 | 72.9 | 66.5 | 65.3 | 48.5 |
| Arthropathies and related disorders710-719 | 21.9 | 25.2 | 26.0 | 19.3 | 18.2 |
| Intervertebral disc disorders722 | 16.0 | 15.5 | 14.5 | 19.4 | 12.9 |
| Congenital anomalies740-759 | 7.6 | 11.3 | 7.5 | 5.0 | 8.1 |
| Certain conditions originating in the perinatal period760-779 | 5.6 | 5.0 | 5.5 | 4.5 | 7.9 |
| Symptoms, signs, and ill-defined conditions780-799 | 13.8 | 15.3 | 11.6 | 17.0 | 9.7 |
| Injury and poisoning800-999 | 106.6 | 115.4 | 101.9 | 113.7 | 92.0 |
| Fractures, all sites800-829 | 40.1 | 41.7 | 40.9 | 42.6 | 33.6 |
| Fracture of neck of femur820 | 11.0 | 11.5 | 12.5 | 11.0 | 8.7 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 6.0 | 6.9 | 6.7 | 5.8 | 4.8 |
| Lacerations and open wounds870-904 | 7.1 | 7.0 | 6.4 | 8.5 | 5.8 |
| Supplementary classificationsV01-V82 | 172.9 | 159.0 | 160.3 | 167.3 | 208.8 |
| Females with deliveriesV27 | 154.2 | 134.4 | 134.7 | 154.7 | 193.7 |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 17. Average length of stay for patients discharged from short-stay hospitals, by geographic region and first-listed diagnosis: United States, 1992

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

| <i>First-listed diagnosis and ICD-9-CM code</i> | <i>United States</i> | <i>North-east</i> | <i>Midwest</i> | <i>South</i> | <i>West</i> |
|--|--------------------------------|-------------------|----------------|--------------|-------------|
| | Average length of stay in days | | | | |
| All conditions | 6.2 | 7.2 | 6.2 | 6.0 | 5.2 |
| Infectious and parasitic diseases001-139 | 7.9 | 10.3 | 7.2 | 7.5 | 6.8 |
| Septicemia038 | 10.8 | 14.8 | 10.0 | 10.0 | 9.0 |
| Neoplasms140-239 | 7.7 | 8.4 | 7.3 | 7.9 | 6.8 |
| Malignant neoplasms140-208,230-234 | 8.5 | 9.5 | 8.2 | 8.5 | 7.5 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 11.5 | 13.8 | 11.0 | 11.3 | 9.0 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 8.3 | 9.1 | 9.3 | 7.4 | 8.4 |
| Malignant neoplasm of breast174-175,198.81 | 4.1 | 4.6 | 3.9 | 4.3 | 3.1 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 4.6 | 4.3 | 4.3 | 5.3 | 4.3 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 6.4 | 8.2 | 5.9 | 6.0 | 5.3 |
| Diabetes mellitus250 | 6.9 | 9.3 | 6.2 | 6.4 | 6.0 |
| Volume depletion276.5 | 6.4 | 8.4 | 5.8 | 6.4 | 4.5 |
| Diseases of the blood and blood-forming organs280-289 | 6.0 | 7.1 | 5.8 | 6.0 | 4.8 |
| Mental disorders290-319 | 10.9 | 11.3 | 11.0 | 11.1 | 8.9 |
| Psychoses290-299 | 12.9 | 14.3 | 12.6 | 13.0 | 9.9 |
| Alcohol dependence syndrome303 | 9.4 | 7.5 | 10.6 | 9.4 | 11.0 |
| Diseases of the nervous system and sense organs320-389 | 5.5 | 5.1 | 6.1 | 5.3 | 6.1 |
| Diseases of the central nervous system320-336,340-349 | 8.8 | 10.3 | 9.6 | 7.4 | 9.0 |
| Diseases of the ear and mastoid process380-389 | 2.6 | 2.4 | 2.8 | 2.7 | 2.6 |
| Diseases of the circulatory system390-459 | 7.0 | 8.3 | 6.8 | 6.7 | 6.1 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 6.7 | 8.1 | 6.4 | 6.3 | 5.8 |
| Acute myocardial infarction410 | 8.1 | 9.7 | 7.6 | 8.0 | 6.6 |
| Coronary atherosclerosis414.0 | 5.6 | 6.0 | 5.3 | 5.7 | 5.3 |
| Other ischemic heart disease411-413,414.1-414.9 | 5.0 | 5.7 | 4.9 | 4.8 | 4.3 |
| Cardiac dysrhythmias427 | 5.2 | 6.9 | 4.6 | 4.7 | 4.8 |
| Congestive heart failure428.0 | 7.9 | 10.3 | 7.7 | 7.1 | 6.3 |
| Cerebrovascular disease430-438 | 8.8 | 10.8 | 9.2 | 7.7 | 8.1 |
| Diseases of the respiratory system460-519 | 6.8 | 7.8 | 5.9 | 6.8 | 6.4 |
| Acute respiratory infections460-466 | 4.0 | 5.2 | 3.7 | 3.7 | 3.5 |
| Chronic disease of tonsils and adenoids474 | 1.3 | 1.2 | 1.4 | 1.4 | *1.4 |
| Pneumonia480-486 | 8.3 | 10.7 | 7.1 | 8.3 | 7.4 |
| Asthma493 | 4.3 | 4.8 | 3.8 | 4.7 | 3.9 |
| Diseases of the digestive system520-579 | 5.8 | 6.7 | 5.5 | 5.6 | 5.1 |
| Ulcers of the stomach and small intestine531-534 | 6.9 | 8.5 | 6.7 | 6.5 | 6.4 |
| Appendicitis540-543 | 4.4 | 5.7 | 4.2 | 4.4 | 3.8 |
| Inguinal hernia550 | 2.5 | 1.9 | 2.6 | 3.3 | 2.4 |
| Noninfectious enteritis and colitis555-558 | 4.9 | 6.3 | 4.6 | 4.4 | 4.4 |
| Cholelithiasis574 | 4.4 | 4.7 | 4.2 | 4.6 | 3.7 |
| Diseases of the genitourinary system580-629 | 4.7 | 5.6 | 4.6 | 4.6 | 3.8 |
| Calculus of kidney and ureter592 | 3.1 | 3.6 | 3.9 | 2.6 | 2.3 |
| Hyperplasia of prostate600 | 4.4 | 5.7 | 4.2 | 4.2 | 3.3 |
| Complications of pregnancy, childbirth, and the puerperium ¹630-676 | 2.6 | 2.7 | 2.6 | 2.5 | 2.5 |
| Abortions and ectopic and molar pregnancies630-639 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| Diseases of the skin and subcutaneous tissue680-709 | 7.8 | 8.1 | 6.9 | 8.2 | 7.5 |
| Cellulitis and abscess681-682 | 6.7 | 7.9 | 6.0 | 6.6 | 6.3 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 6.2 | 6.5 | 6.9 | 5.8 | 5.6 |
| Arthropathies and related disorders710-719 | 7.3 | 7.0 | 8.0 | 7.1 | 6.7 |
| Intervertebral disc disorders722 | 4.4 | 5.1 | 4.0 | 4.2 | 4.5 |
| Congenital anomalies740-759 | 6.3 | 5.6 | 8.1 | 6.1 | 5.8 |
| Certain conditions originating in the perinatal period760-779 | 12.4 | 11.8 | 12.7 | 12.2 | 12.5 |
| Symptoms, signs, and ill-defined conditions780-799 | 3.0 | 3.7 | 2.6 | 2.9 | 2.7 |
| Injury and poisoning800-999 | 6.2 | 7.4 | 6.3 | 5.9 | 5.5 |
| Fractures, all sites800-829 | 7.7 | 9.5 | 7.8 | 7.2 | 6.7 |
| Fracture of neck of femur820 | 11.7 | 14.9 | 11.0 | 11.7 | 8.6 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 5.5 | 5.9 | 6.5 | 4.7 | 5.0 |
| Lacerations and open wounds870-904 | 3.8 | 4.3 | 3.6 | 3.6 | 4.0 |
| Supplementary classificationsV01-V82 | 3.1 | 3.5 | 3.7 | 2.8 | 2.6 |
| Females with deliveriesV27 | 2.6 | 3.0 | 2.6 | 2.6 | 2.2 |

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

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 18. Number of all-listed diagnoses for patients discharged from short-stay hospitals, by age and diagnosis: United States, 1992

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

| <i>All-listed diagnosis and ICD-9-CM code</i> | <i>All ages</i> | <i>Under 15 years</i> | <i>15-44 years</i> | <i>45-64 years</i> | <i>65 years and over</i> |
|--|-----------------|-----------------------|--------------------|--------------------|--------------------------|
| Number of all-listed diagnoses in thousands | | | | | |
| All conditions | 109,299 | 5,762 | 31,386 | 22,742 | 49,410 |
| Infectious and parasitic diseases001-139 | 3,047 | 461 | 906 | 519 | 1,161 |
| Septicemia038 | 565 | 45 | 79 | 113 | 328 |
| Neoplasms140-239 | 4,521 | 107 | 692 | 1,412 | 2,310 |
| Malignant neoplasms140-208,230-234 | 3,598 | 81 | 346 | 1,142 | 2,029 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 258 | * | 9 | 70 | 178 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 512 | * | 20 | 196 | 294 |
| Malignant neoplasm of breast174-175,198.81 | 231 | * | 34 | 94 | 103 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 923 | 25 | 346 | 270 | 281 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 10,526 | 422 | 1,525 | 2,771 | 5,808 |
| Diabetes mellitus250 | 3,539 | 27 | 439 | 1,087 | 1,987 |
| Volume depletion276.5 | 1,481 | 238 | 250 | 218 | 775 |
| Diseases of the blood and blood-forming organs280-289 | 3,569 | 172 | 867 | 717 | 1,814 |
| Mental disorders290-319 | 5,729 | 182 | 2,762 | 1,249 | 1,535 |
| Psychoses290-299 | 1,975 | 41 | 704 | 378 | 852 |
| Alcohol dependence syndrome303 | 754 | * | 439 | 224 | 88 |
| Diseases of the nervous system and sense organs320-389 | 3,376 | 492 | 658 | 666 | 1,559 |
| Diseases of the central nervous system320-336,340-349 | 1,646 | 114 | 345 | 330 | 857 |
| Diseases of the ear and mastoid process380-389 | 558 | 311 | 77 | 51 | 118 |
| Diseases of the circulatory system390-459 | 22,802 | 131 | 1,338 | 5,627 | 15,707 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 14,439 | 95 | 684 | 3,415 | 10,245 |
| Acute myocardial infarction410 | 830 | * | 48 | 280 | 501 |
| Coronary atherosclerosis414.0 | 2,467 | * | 79 | 689 | 1,695 |
| Other ischemic heart disease411-413,414.1-414.9 | 2,843 | *6 | 135 | 856 | 1,846 |
| Cardiac dysrhythmias427 | 2,896 | 32 | 138 | 540 | 2,185 |
| Congestive heart failure428.0 | 2,334 | 19 | 54 | 379 | 1,882 |
| Cerebrovascular disease430-438 | 1,732 | 10 | 55 | 322 | 1,345 |
| Diseases of the respiratory system460-519 | 8,128 | 1,146 | 1,183 | 1,578 | 4,221 |
| Acute respiratory infections460-466 | 745 | 322 | 153 | 94 | 175 |
| Chronic disease of tonsils and adenoids474 | 103 | 70 | 30 | * | * |
| Pneumonia480-486 | 1,639 | 277 | 208 | 260 | 894 |
| Asthma493 | 956 | 261 | 265 | 185 | 245 |
| Diseases of the digestive system520-579 | 7,784 | 435 | 1,774 | 1,993 | 3,582 |
| Ulcers of the stomach and small intestine531-534 | 536 | * | 81 | 149 | 303 |
| Appendicitis540-543 | 266 | 59 | 159 | 31 | 16 |
| Inguinal hernia550 | 179 | 25 | 23 | 37 | 94 |
| Noninfectious enteritis and colitis555-558 | 721 | 161 | 197 | 130 | 233 |
| Cholelithiasis574 | 777 | * | 217 | 224 | 334 |
| Diseases of the genitourinary system580-629 | 7,017 | 151 | 2,229 | 1,553 | 3,085 |
| Calculus of kidney and ureter592 | 298 | * | 129 | 99 | 66 |
| Hyperplasia of prostate600 | 393 | - | * | 78 | 314 |
| Complications of pregnancy, childbirth, and the puerperium630-676 | 7,703 | 22 | 7,671 | 10 | ... |
| Abortions and ectopic and molar pregnancies630-639 | 197 | * | 195 | * | ... |
| Diseases of the skin and subcutaneous tissue680-709 | 1,312 | 101 | 296 | 315 | 599 |
| Cellulitis and abscess681-682 | 522 | 32 | 138 | 140 | 211 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 4,363 | 64 | 937 | 1,090 | 2,273 |
| Arthropathies and related disorders710-719 | 1,856 | 23 | 273 | 389 | 1,171 |
| Intervertebral disc disorders722 | 543 | * | 234 | 194 | 114 |
| Congenital anomalies740-759 | 588 | 335 | 133 | 60 | 59 |
| Certain conditions originating in the perinatal period760-779 | 381 | 367 | *5 | * | *5 |
| Symptoms, signs, and ill-defined conditions780-799 | 5,160 | 461 | 1,250 | 1,281 | 2,168 |
| Injury and poisoning800-999 | 5,927 | 513 | 2,248 | 1,134 | 2,033 |
| Fractures, all sites800-829 | 1,519 | 124 | 532 | 223 | 640 |
| Fracture of neck of femur820 | 314 | * | 13 | 24 | 275 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 221 | 38 | 106 | 27 | 50 |
| Lacerations and open wounds870-904 | 550 | 57 | 338 | 69 | 86 |
| Supplementary classificationsV01-V82 | 7,365 | 201 | 4,912 | 762 | 1,489 |
| Females with deliveriesV27 | 3,910 | 10 | 3,896 | * | ... |

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 19. Number of all-listed diagnoses for patients discharged from short-stay hospitals, by sex and diagnosis: United States, 1992

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

| All-listed diagnosis and ICD-9-CM code | Both sexes | Male | Female |
|--|---|--------|--------|
| | Number of all-listed diagnoses in thousands | | |
| All conditions | 109,299 | 44,504 | 64,794 |
| Infectious and parasitic diseases001-139 | 3,047 | 1,411 | 1,637 |
| Septicemia038 | 565 | 274 | 291 |
| Neoplasms140-239 | 4,521 | 2,028 | 2,493 |
| Malignant neoplasms140-208,230-234 | 3,598 | 1,801 | 1,798 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 258 | 124 | 134 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 512 | 293 | 219 |
| Malignant neoplasm of breast174-175,198.81 | 231 | * | 229 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 923 | 227 | 696 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 10,526 | 4,366 | 6,159 |
| Diabetes mellitus250 | 3,539 | 1,549 | 1,990 |
| Volume depletion276.5 | 1,481 | 613 | 868 |
| Diseases of the blood and blood-forming organs280-289 | 3,569 | 1,462 | 2,107 |
| Mental disorders290-319 | 5,729 | 2,864 | 2,865 |
| Psychoses290-299 | 1,975 | 896 | 1,079 |
| Alcohol dependence syndrome303 | 754 | 557 | 197 |
| Diseases of the nervous system and sense organs320-389 | 3,376 | 1,592 | 1,783 |
| Diseases of the central nervous system320-336,340-349 | 1,646 | 774 | 871 |
| Diseases of the ear and mastoid process380-389 | 558 | 297 | 261 |
| Diseases of the circulatory system390-459 | 22,802 | 11,124 | 11,678 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 14,439 | 7,346 | 7,093 |
| Acute myocardial infarction410 | 830 | 500 | 330 |
| Coronary atherosclerosis414.0 | 2,467 | 1,400 | 1,066 |
| Other ischemic heart disease411-413,414.1-414.9 | 2,843 | 1,532 | 1,311 |
| Cardiac dysrhythmias427 | 2,896 | 1,437 | 1,458 |
| Congestive heart failure428.0 | 2,334 | 1,051 | 1,283 |
| Cerebrovascular disease430-438 | 1,732 | 793 | 939 |
| Diseases of the respiratory system460-519 | 8,128 | 4,068 | 4,060 |
| Acute respiratory infections460-466 | 745 | 347 | 397 |
| Chronic disease of tonsils and adenoids474 | 103 | 48 | 56 |
| Pneumonia480-486 | 1,639 | 830 | 809 |
| Asthma493 | 956 | 381 | 575 |
| Diseases of the digestive system520-579 | 7,784 | 3,389 | 4,395 |
| Ulcers of the stomach and small intestine531-534 | 536 | 264 | 272 |
| Appendicitis540-543 | 266 | 147 | 119 |
| Inguinal hernia550 | 179 | 157 | 22 |
| Noninfectious enteritis and colitis555-558 | 721 | 277 | 444 |
| Cholelithiasis574 | 777 | 246 | 531 |
| Diseases of the genitourinary system580-629 | 7,017 | 2,426 | 4,591 |
| Calculus of kidney and ureter592 | 298 | 180 | 117 |
| Hyperplasia of prostate600 | 393 | 393 | ... |
| Complications of pregnancy, childbirth, and the puerperium630-676 | 7,703 | ... | 7,703 |
| Abortions and ectopic and molar pregnancies630-639 | 197 | ... | 197 |
| Diseases of the skin and subcutaneous tissue680-709 | 1,312 | 630 | 682 |
| Cellulitis and abscess681-682 | 522 | 266 | 255 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 4,363 | 1,674 | 2,689 |
| Arthropathies and related disorders710-719 | 1,856 | 633 | 1,223 |
| Intervertebral disc disorders722 | 543 | 282 | 262 |
| Congenital anomalies740-759 | 588 | 301 | 286 |
| Certain conditions originating in the perinatal period760-779 | 381 | 223 | 158 |
| Symptoms, signs, and ill-defined conditions780-799 | 5,160 | 2,435 | 2,725 |
| Injury and poisoning800-999 | 5,927 | 3,135 | 2,793 |
| Fractures, all sites800-829 | 1,519 | 726 | 793 |
| Fracture of neck of femur820 | 314 | 84 | 230 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 221 | 136 | 85 |
| Lacerations and open wounds870-904 | 550 | 373 | 177 |
| Supplementary classificationsV01-V82 | 7,365 | 1,377 | 5,988 |
| Females with deliveriesV27 | 3,910 | ... | 3,910 |

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 20. Number of all-listed diagnoses for patients discharged from short-stay hospitals, by race and diagnosis: United States, 1992

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

| <i>All-listed diagnosis and ICD-9-CM code</i> | <i>All races</i> | <i>White</i> | <i>Black</i> | <i>All other</i> | <i>Not stated</i> |
|--|------------------|--------------|--------------|------------------|-------------------|
| Number of all-listed diagnoses in thousands | | | | | |
| All conditions | 109,299 | 73,259 | 12,874 | 3,730 | 19,435 |
| Infectious and parasitic diseases001-139 | 3,047 | 1,924 | 488 | 118 | 518 |
| Septicemia038 | 565 | 370 | 81 | 19 | 95 |
| Neoplasms140-239 | 4,521 | 3,251 | 442 | 128 | 700 |
| Malignant neoplasms140-208,230-234 | 3,598 | 2,630 | 315 | 99 | 554 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 258 | 197 | 18 | *5 | 38 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 512 | 392 | 37 | 11 | 72 |
| Malignant neoplasm of breast174-175,198.81 | 231 | 168 | 20 | *6 | 38 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 923 | 621 | 127 | 29 | 146 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 10,526 | 7,132 | 1,350 | 317 | 1,728 |
| Diabetes mellitus250 | 3,539 | 2,303 | 531 | 118 | 587 |
| Volume depletion276.5 | 1,481 | 1,003 | 183 | 42 | 253 |
| Diseases of the blood and blood-forming organs280-289 | 3,569 | 2,286 | 575 | 136 | 573 |
| Mental disorders290-319 | 5,729 | 3,745 | 786 | 127 | 1,071 |
| Psychoses290-299 | 1,975 | 1,361 | 233 | 42 | 339 |
| Alcohol dependence syndrome303 | 754 | 410 | 151 | 18 | 176 |
| Diseases of the nervous system and sense organs320-389 | 3,376 | 2,309 | 397 | 105 | 564 |
| Diseases of the central nervous system320-336,340-349 | 1,646 | 1,138 | 183 | 51 | 274 |
| Diseases of the ear and mastoid process380-389 | 558 | 356 | 78 | 18 | 106 |
| Diseases of the circulatory system390-459 | 22,802 | 16,291 | 2,247 | 518 | 3,747 |
| Heart disease391-392.0,393-398,402,404,410-416,420-429 | 14,439 | 10,493 | 1,205 | 312 | 2,429 |
| Acute myocardial infarction410 | 830 | 592 | 68 | 20 | 150 |
| Coronary atherosclerosis414.0 | 2,467 | 1,887 | 146 | 50 | 383 |
| Other ischemic heart disease411-413,414.1-414.9 | 2,843 | 2,085 | 205 | 61 | 491 |
| Cardiac dysrhythmias427 | 2,896 | 2,132 | 207 | 64 | 492 |
| Congestive heart failure428.0 | 2,334 | 1,622 | 244 | 48 | 420 |
| Cerebrovascular disease430-438 | 1,732 | 1,224 | 188 | 42 | 277 |
| Diseases of the respiratory system460-519 | 8,128 | 5,523 | 948 | 237 | 1,419 |
| Acute respiratory infections460-466 | 745 | 453 | 118 | 25 | 148 |
| Chronic disease of tonsils and adenoids474 | 103 | 71 | 9 | * | 20 |
| Pneumonia480-486 | 1,639 | 1,071 | 209 | 54 | 306 |
| Asthma493 | 956 | 529 | 215 | 42 | 169 |
| Diseases of the digestive system520-579 | 7,784 | 5,364 | 833 | 215 | 1,372 |
| Ulcers of the stomach and small intestine531-534 | 536 | 362 | 59 | 20 | 95 |
| Appendicitis540-543 | 266 | 170 | 20 | 14 | 63 |
| Inguinal hernia550 | 179 | 133 | 15 | * | 28 |
| Noninfectious enteritis and colitis555-558 | 721 | 482 | 86 | 20 | 133 |
| Cholelithiasis574 | 777 | 541 | 57 | 31 | 148 |
| Diseases of the genitourinary system580-629 | 7,017 | 4,804 | 809 | 205 | 1,199 |
| Calculus of kidney and ureter592 | 298 | 214 | 15 | *8 | 60 |
| Hyperplasia of prostate600 | 393 | 270 | 31 | *8 | 83 |
| Complications of pregnancy, childbirth, and the puerperium630-676 | 7,703 | 4,213 | 1,161 | 641 | 1,688 |
| Abortions and ectopic and molar pregnancies630-639 | 197 | 91 | 56 | 12 | 37 |
| Diseases of the skin and subcutaneous tissue680-709 | 1,312 | 872 | 173 | 38 | 230 |
| Cellulitis and abscess681-682 | 522 | 345 | 63 | 16 | 98 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 4,363 | 3,218 | 340 | 76 | 729 |
| Arthropathies and related disorders710-719 | 1,856 | 1,369 | 154 | 31 | 303 |
| Intervertebral disc disorders722 | 543 | 414 | 31 | 12 | 87 |
| Congenital anomalies740-759 | 588 | 375 | 56 | 27 | 130 |
| Certain conditions originating in the perinatal period760-779 | 381 | 185 | 66 | 27 | 102 |
| Symptoms, signs, and ill-defined conditions780-799 | 5,160 | 3,352 | 647 | 156 | 1,005 |
| Injury and poisoning800-999 | 5,927 | 3,935 | 679 | 193 | 1,121 |
| Fractures, all sites800-829 | 1,519 | 1,049 | 134 | 41 | 296 |
| Fracture of neck of femur820 | 314 | 235 | 10 | *5 | 65 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 221 | 135 | 28 | *8 | 49 |
| Lacerations and open wounds870-904 | 550 | 319 | 112 | 29 | 90 |
| Supplementary classificationsV01-V82 | 7,365 | 4,480 | 878 | 467 | 1,539 |
| Females with deliveriesV27 | 3,910 | 2,148 | 511 | 334 | 917 |

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 21. Number of all-listed diagnoses for patients discharged from short-stay hospitals, by geographic region and diagnosis: United States, 1992

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

| <i>All-listed diagnosis and ICD-9-CM code</i> | <i>United States</i> | <i>North-east</i> | <i>Midwest</i> | <i>South</i> | <i>West</i> |
|--|---|-------------------|----------------|--------------|-------------|
| | Number of all-listed diagnoses in thousands | | | | |
| All conditions | 109,299 | 25,984 | 25,790 | 39,005 | 18,519 |
| Infectious and parasitic diseases001-139 | 3,047 | 730 | 679 | 1,107 | 532 |
| Septicemia038 | 565 | 133 | 115 | 218 | 99 |
| Neoplasms140-239 | 4,521 | 1,153 | 1,027 | 1,596 | 745 |
| Malignant neoplasms140-208,230-234 | 3,598 | 913 | 833 | 1,264 | 588 |
| Malignant neoplasm of large intestine and rectum153-154,197.5 | 258 | 64 | 60 | 95 | 39 |
| Malignant neoplasm of trachea, bronchus, and lung162,197.0,197.3 | 512 | 130 | 112 | 190 | 80 |
| Malignant neoplasm of breast174-175,198.81 | 231 | 58 | 55 | 82 | 37 |
| Benign neoplasms and neoplasms of uncertain behavior and unspecified nature210-229,235-239 | 923 | 240 | 194 | 332 | 157 |
| Endocrine, nutritional and metabolic diseases, and immunity disorders240-279 | 10,526 | 2,483 | 2,615 | 3,892 | 1,536 |
| Diabetes mellitus250 | 3,539 | 877 | 799 | 1,341 | 523 |
| Volume depletion276.5 | 1,481 | 315 | 371 | 562 | 234 |
| Diseases of the blood and blood-forming organs280-289 | 3,569 | 839 | 810 | 1,262 | 658 |
| Mental disorders290-319 | 5,729 | 1,630 | 1,487 | 1,817 | 795 |
| Psychoses290-299 | 1,975 | 554 | 498 | 663 | 259 |
| Alcohol dependence syndrome303 | 754 | 217 | 202 | 227 | 107 |
| Diseases of the nervous system and sense organs320-389 | 3,376 | 910 | 800 | 1,112 | 554 |
| Diseases of the central nervous system320-336,340-349 | 1,646 | 404 | 399 | 553 | 290 |
| Diseases of the ear and mastoid process380-389 | 558 | 155 | 140 | 180 | 83 |
| Diseases of the circulatory system390-459 | 22,802 | 5,789 | 5,369 | 8,261 | 3,383 |
| Heart disease391-392,0,393-398,402,404,410-416,420-429 | 14,439 | 3,716 | 3,422 | 5,133 | 2,168 |
| Acute myocardial infarction410 | 830 | 218 | 204 | 276 | 133 |
| Coronary atherosclerosis414.0 | 2,467 | 673 | 585 | 839 | 369 |
| Other ischemic heart disease411-413,414.1-414.9 | 2,843 | 760 | 675 | 984 | 424 |
| Cardiac dysrhythmias427 | 2,896 | 709 | 679 | 1,051 | 456 |
| Congestive heart failure428.0 | 2,334 | 568 | 575 | 881 | 310 |
| Cerebrovascular disease430-438 | 1,732 | 392 | 408 | 668 | 263 |
| Diseases of the respiratory system460-519 | 8,128 | 1,868 | 1,953 | 3,071 | 1,236 |
| Acute respiratory infections460-466 | 745 | 148 | 198 | 287 | 111 |
| Chronic disease of tonsils and adenoids474 | 103 | 50 | 27 | 18 | *8 |
| Pneumonia480-486 | 1,639 | 312 | 403 | 667 | 257 |
| Asthma493 | 956 | 257 | 232 | 304 | 163 |
| Diseases of the digestive system520-579 | 7,784 | 1,866 | 1,787 | 2,920 | 1,210 |
| Ulcers of the stomach and small intestine531-534 | 536 | 141 | 118 | 191 | 86 |
| Appendicitis540-543 | 266 | 50 | 63 | 93 | 60 |
| Inguinal hernia550 | 179 | 55 | 45 | 59 | 20 |
| Noninfectious enteritis and colitis555-558 | 721 | 167 | 170 | 289 | 96 |
| Cholelithiasis574 | 777 | 177 | 160 | 296 | 144 |
| Diseases of the genitourinary system580-629 | 7,017 | 1,582 | 1,634 | 2,694 | 1,107 |
| Calculus of kidney and ureter592 | 298 | 64 | 76 | 123 | 35 |
| Hyperplasia of prostate600 | 393 | 86 | 102 | 142 | 63 |
| Complications of pregnancy, childbirth, and the puerperium630-676 | 7,703 | 1,481 | 1,561 | 2,598 | 2,062 |
| Abortions and ectopic and molar pregnancies630-639 | 197 | 66 | 31 | 66 | 33 |
| Diseases of the skin and subcutaneous tissue680-709 | 1,312 | 359 | 324 | 441 | 188 |
| Cellulitis and abscess681-682 | 522 | 133 | 135 | 175 | 79 |
| Diseases of the musculoskeletal system and connective tissue710-739 | 4,363 | 1,049 | 1,104 | 1,544 | 667 |
| Arthropathies and related disorders710-719 | 1,856 | 456 | 487 | 641 | 273 |
| Intervertebral disc disorders722 | 543 | 109 | 123 | 221 | 90 |
| Congenital anomalies740-759 | 588 | 170 | 143 | 150 | 125 |
| Certain conditions originating in the perinatal period760-779 | 381 | 81 | 90 | 98 | 112 |
| Symptoms, signs, and ill-defined conditions780-799 | 5,160 | 1,150 | 1,290 | 1,892 | 829 |
| Injury and poisoning800-999 | 5,927 | 1,330 | 1,397 | 2,098 | 1,103 |
| Fractures, all sites800-829 | 1,519 | 321 | 377 | 550 | 271 |
| Fracture of neck of femur820 | 314 | 67 | 86 | 108 | 52 |
| Intracranial injuries (excluding those with skull fracture)850-854 | 221 | 53 | 57 | 67 | 44 |
| Lacerations and open wounds870-904 | 550 | 121 | 128 | 206 | 95 |
| Supplementary classificationsV01-V82 | 7,365 | 1,515 | 1,720 | 2,453 | 1,676 |
| Females with deliveriesV27 | 3,910 | 686 | 816 | 1,350 | 1,058 |

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 22. Number of all-listed procedures for patients discharged from short-stay hospitals, by age and procedure category: United States, 1992

[Discharges from non-Federal hospitals. Excludes newborn infants. Groupings of procedures by anatomical systems and code number inclusions 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 of all-listed procedures in thousands | | | | |
| All procedures | 42,627 | 2,166 | 16,264 | 9,461 | 14,736 |
| Operations on the nervous system01-05 | 921 | 194 | 307 | 206 | 213 |
| Spinal tap03.31 | 339 | 146 | 83 | 55 | 54 |
| Operations on the endocrine system06-07 | 102 | * | 39 | 38 | 21 |
| Operations on the eye08-16 | 332 | 27 | 62 | 70 | 173 |
| Operations on the ear18-20 | 121 | 64 | 31 | 10 | 15 |
| Operations on the nose, mouth, and pharynx.21-29 | 533 | 119 | 227 | 101 | 85 |
| Tonsillectomy with or without adenoidectomy28.2-28.3 | 80 | 51 | 25 | * | * |
| Operations on the respiratory system.30-34 | 1,031 | 86 | 196 | 292 | 457 |
| Bronchoscopy with or without biopsy33.21-33.24,33.27 | 315 | 28 | 56 | 92 | 139 |
| Operations on the cardiovascular system35-39 | 4,424 | 152 | 501 | 1,544 | 2,226 |
| Removal of coronary artery obstruction36.0 | 399 | * | 30 | 177 | 192 |
| Coronary artery bypass graft ¹36.1 | 468 | * | 16 | 200 | 252 |
| Cardiac catheterization37.21-37.23 | 1,028 | 15 | 95 | 432 | 486 |
| Insertion, replacement, removal, and revision of pacemaker leads or device.37.7-37.8 | 274 | * | *8 | 51 | 214 |
| Shunt or vascular bypass39.0-39.2 | 178 | * | 20 | 62 | 92 |
| Hemodialysis39.95 | 322 | * | 81 | 103 | 138 |
| Operations on the hemic and lymphatic system40-41 | 398 | 20 | 71 | 114 | 192 |
| Operations on the digestive system.42-54 | 5,358 | 218 | 1,430 | 1,332 | 2,378 |
| Endoscopy of small intestine with or without biopsy45.11-45.14,45.16 | 864 | 15 | 151 | 212 | 486 |
| Endoscopy of large intestine with or without biopsy45.21-45.25 | 573 | * | 79 | 142 | 348 |
| Partial excision of large intestine45.7 | 217 | * | 23 | 56 | 133 |
| Appendectomy, excluding incidental47.0 | 261 | 57 | 159 | 29 | 16 |
| Cholecystectomy51.2 | 525 | * | 177 | 162 | 185 |
| Repair of inguinal hernia53.0-53.1 | 139 | 20 | 20 | 31 | 69 |
| Lysis of peritoneal adhesions54.5 | 344 | *5 | 165 | 78 | 95 |
| Operations on the urinary system55-59 | 1,413 | 48 | 331 | 352 | 682 |
| Cystoscopy with or without biopsy57.31-57.33 | 414 | 9 | 62 | 98 | 245 |
| Operations on the male genital organs60-64 | 539 | 40 | 32 | 109 | 357 |
| Prostatectomy60.2-60.6 | 353 | ... | * | 74 | 278 |
| Operations on the female genital organs65-71 | 2,302 | *7 | 1,562 | 511 | 222 |
| Oophorectomy and salpingo-oophorectomy65.3-65.6 | 464 | * | 239 | 169 | 55 |
| Bilateral destruction or occlusion of fallopian tubes66.2-66.3 | 380 | * | 378 | * | * |
| Hysterectomy68.3-68.7 | 580 | * | 335 | 185 | ... |
| Dilation and curettage of uterus.69.0 | 173 | * | 138 | 26 | 9 |
| Repair of cystocele and rectocele70.5 | 141 | * | 36 | 58 | 47 |
| Obstetrical procedures.72-75 | 6,664 | 16 | 6,642 | *6 | ... |
| Episiotomy with or without forceps or vacuum extraction72.1,72.21,72.31,72.71,73.6 | 1,611 | *5 | 1,604 | * | ... |
| Artificial rupture of membranes73.0 | 729 | * | 727 | * | ... |
| Cesarean section74.0-74.2,74.4,74.99 | 921 | * | 918 | * | ... |
| Fetal EKG (scalp) and fetal monitoring, not otherwise specified75.32,75.34 | 1,241 | * | 1,238 | * | ... |
| Repair of current obstetric laceration75.5-75.6 | 790 | * | 787 | * | ... |
| Operations on the musculoskeletal system76-84 | 3,266 | 171 | 1,252 | 841 | 1,002 |
| Partial excision of bone.76.2-76.3,77.6-77.8 | 222 | 9 | 95 | 73 | 45 |
| Open reduction of fracture with internal fixation79.3 | 417 | 21 | 151 | 74 | 171 |
| Excision or destruction of intervertebral disc80.5 | 319 | * | 157 | 118 | 44 |
| Total hip replacement81.51 | 127 | - | 10 | 33 | 84 |
| Total knee replacement81.54 | 167 | * | * | 38 | 126 |
| Operations on the integumentary system85-86 | 1,371 | 91 | 453 | 382 | 445 |
| Mastectomy85.4 | 117 | - | 19 | 44 | 54 |
| Debridement of wound, infection, or burn86.22,86.28 | 308 | 20 | 92 | 82 | 113 |
| Skin graft86.6-86.7 | 108 | 11 | 35 | 30 | 32 |
| Miscellaneous diagnostic and therapeutic procedures87-99 | 13,854 | 908 | 3,128 | 3,550 | 6,268 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 1,266 | 68 | 286 | 290 | 621 |
| Pyelogram.87.73-87.75 | 203 | * | 69 | 62 | 68 |
| Arteriography and angiocardiology using contrast material88.4-88.5 | 1,771 | 20 | 194 | 714 | 844 |
| Diagnostic ultrasound88.7 | 1,458 | 63 | 366 | 339 | 689 |
| Circulatory monitoring89.6 | 596 | 35 | 101 | 130 | 329 |
| Radioisotope scan92.0-92.1 | 464 | 12 | 82 | 133 | 237 |
| Respiratory therapy93.9 | 819 | 168 | 128 | 159 | 365 |

¹The number of discharged patients with a coronary artery bypass graft was 309,000.

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 23. Rate of all-listed procedures for patients discharged from short-stay hospitals, by age and procedure category: United States, 1992

[Discharges from non-Federal hospitals. Excludes newborn infants. Groupings of procedures by anatomical systems and code number inclusions are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

| <i>Procedure category and ICD-9-CM code</i> | <i>All ages</i> | <i>Under 15 years</i> | <i>15-44 years</i> | <i>45-64 years</i> | <i>65 years and over</i> |
|--|--|-----------------------|--------------------|--------------------|--------------------------|
| | Rate of all-listed procedures per 100,000 population | | | | |
| All procedures | 16,815.7 | 3,871.1 | 13,907.5 | 19,585.5 | 45,643.8 |
| Operations on the nervous system | 363.2 | 347.6 | 262.6 | 427.4 | 659.3 |
| Spinal tap | .03.31 | 133.7 | 260.7 | 71.3 | 114.7 |
| Operations on the endocrine system | .06-07 | 40.0 | * | 33.4 | 78.4 |
| Operations on the eye | .08-16 | 130.9 | 47.8 | 53.4 | 144.8 |
| Operations on the ear | .18-20 | 47.7 | 115.2 | 26.2 | 21.7 |
| Operations on the nose, mouth, and pharynx | .21-29 | 210.1 | 212.9 | 194.3 | 209.8 |
| Tonsillectomy with or without adenoidectomy | .28.2-28.3 | 31.4 | 90.8 | 21.5 | * |
| Operations on the respiratory system | .30-34 | 406.7 | 153.0 | 168.0 | 604.2 |
| Bronchoscopy with or without biopsy | .33.21-33.24,33.27 | 124.4 | 50.3 | 47.6 | 190.9 |
| Operations on the cardiovascular system | .35-39 | 1,745.1 | 272.3 | 428.8 | 3,197.0 |
| Removal of coronary artery obstruction | .36.0 | 157.2 | * | 25.3 | 366.2 |
| Coronary artery bypass graft ¹ | .36.1 | 184.8 | * | 13.6 | 413.7 |
| Cardiac catheterization | .37.21-37.23 | 405.6 | 27.0 | 81.3 | 893.8 |
| Insertion, replacement, removal, and revision of pacemaker leads or device | .37.7-37.8 | 108.1 | * | *6.9 | 104.6 |
| Shunt or vascular bypass | .39.0-39.2 | 70.3 | * | 17.3 | 129.0 |
| Hemodialysis | .39.95 | 127.2 | * | 69.2 | 213.0 |
| Operations on the hemic and lymphatic system | .40-41 | 156.8 | 35.7 | 60.6 | 236.6 |
| Operations on the digestive system | .42-54 | 2,113.6 | 389.8 | 1,222.5 | 2,757.4 |
| Endoscopy of small intestine with or without biopsy | .45.11-45.14,45.16 | 341.0 | 26.7 | 129.2 | 439.9 |
| Endoscopy of large intestine with or without biopsy | .45.21-45.25 | 226.0 | * | 67.3 | 293.1 |
| Partial excision of large intestine | .45.7 | 85.6 | * | 20.0 | 116.3 |
| Appendectomy, excluding incidental | .47.0 | 102.9 | 102.5 | 136.0 | 59.5 |
| Cholecystectomy | .51.2 | 207.1 | 2.0 | 151.5 | 335.6 |
| Repair of inguinal hernia | .53.0-53.1 | 54.9 | 35.4 | 17.2 | 63.3 |
| Lysis of peritoneal adhesions | .54.5 | 135.5 | *9.7 | 141.1 | 162.3 |
| Operations on the urinary system | .55-59 | 557.4 | 86.0 | 283.0 | 728.8 |
| Cystoscopy with or without biopsy | .57.31-57.33 | 163.5 | 16.9 | 53.0 | 202.3 |
| Operations on the male genital organs | .60-64 | 212.5 | 72.3 | 27.4 | 226.6 |
| Prostatectomy | .60.2-60.6 | 139.1 | ... | * | 153.4 |
| Operations on the female genital organs | .65-71 | 908.2 | *12.4 | 1,335.9 | 1,058.7 |
| Oophorectomy and salpingo-oophorectomy | .65.3-65.6 | 183.1 | * | 204.5 | 350.0 |
| Bilateral destruction or occlusion of fallopian tubes | .66.2-66.3 | 149.8 | * | 323.4 | * |
| Hysterectomy | .68.3-68.7 | 228.8 | * | 286.3 | 382.8 |
| Dilation and curettage of uterus | .69.0 | 68.3 | * | 117.9 | 53.5 |
| Repair of cystocele and rectocele | .70.5 | 55.7 | * | 30.4 | 120.9 |
| Obstetrical procedures | .72-75 | 2,628.9 | 28.4 | 5,679.4 | *13.2 |
| Episiotomy with or without forceps or vacuum extraction | .72.1,72.21,72.31,72.71,73.6 | 635.4 | *9.6 | 1,371.5 | * |
| Artificial rupture of membranes | .73.0 | 287.5 | * | 621.3 | * |
| Cesarean section | .74.0-74.2,74.4,74.99 | 363.3 | * | 784.9 | * |
| Fetal EKG (scalp) and fetal monitoring, not otherwise specified | .75.32,75.34 | 489.6 | * | 1,058.7 | * |
| Repair of current obstetric laceration | .75.5-75.6 | 311.8 | * | 673.4 | * |
| Operations on the musculoskeletal system | .76-84 | 1,288.3 | 306.1 | 1,070.2 | 1,740.5 |
| Partial excision of bone | .76.2-76.3,77.6-77.8 | 87.6 | 16.9 | 81.1 | 150.8 |
| Open reduction of fracture with internal fixation | .79.3 | 164.4 | 37.5 | 129.1 | 153.4 |
| Excision or destruction of intervertebral disc | .80.5 | 125.9 | * | 134.6 | 244.1 |
| Total hip replacement | .81.51 | 50.1 | - | 8.7 | 68.1 |
| Total knee replacement | .81.54 | 66.1 | * | * | 79.5 |
| Operations on the integumentary system | .85-86 | 540.9 | 162.8 | 387.4 | 791.2 |
| Mastectomy | .85.4 | 46.0 | - | 16.4 | 90.5 |
| Debridement of wound, infection, or burn | .86.22,86.28 | 121.4 | 36.1 | 78.9 | 169.3 |
| Skin graft | .86.6-86.7 | 42.5 | 19.3 | 29.7 | 61.7 |
| Miscellaneous diagnostic and therapeutic procedures | .87-99 | 5,465.1 | 1,622.5 | 2,674.7 | 7,349.2 |
| Computerized axial tomography | .87.03,87.41,87.71,88.01,88.38 | 499.4 | 121.8 | 244.7 | 600.9 |
| Pyelogram | .87.73-87.75 | 79.9 | * | 58.8 | 128.9 |
| Arteriography and angiocardiology using contrast material | .88.4-88.5 | 698.7 | 35.3 | 165.5 | 1,477.7 |
| Diagnostic ultrasound | .88.7 | 575.2 | 113.1 | 313.2 | 702.4 |
| Circulatory monitoring | .89.6 | 234.9 | 62.1 | 86.4 | 269.9 |
| Radioisotope scan | .92.0-92.1 | 183.1 | 21.4 | 69.9 | 276.1 |
| Respiratory therapy | .93.9 | 323.2 | 300.0 | 109.0 | 328.8 |

¹The rate per 100,000 population of discharged patients with a coronary bypass graft was 121.9.

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 24. Number of all-listed procedures for patients discharged from short-stay hospitals, by sex and procedure category: United States, 1992

[Discharges from non-Federal hospitals. Excludes newborn infants. Groupings of procedures by anatomical systems and code number inclusions are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

| <i>Procedure category and ICD-9-CM code</i> | <i>Both sexes</i> | <i>Male</i> | <i>Female</i> |
|---|--|-------------|---------------|
| | Number of all-listed procedures in thousands | | |
| All procedures | 42,627 | 16,791 | 25,836 |
| Operations on the nervous system01-05 | 921 | 442 | 479 |
| Spinal tap03.31 | 339 | 184 | 155 |
| Operations on the endocrine system06-07 | 102 | 29 | 72 |
| Operations on the eye08-16 | 332 | 162 | 169 |
| Operations on the ear18-20 | 121 | 68 | 53 |
| Operations on the nose, mouth, and pharynx21-29 | 533 | 280 | 252 |
| Tonsillectomy with or without adenoidectomy28.2-28.3 | 80 | 33 | 46 |
| Operations on the respiratory system30-34 | 1,031 | 575 | 456 |
| Bronchoscopy with or without biopsy33.21-33.24,33.27 | 315 | 178 | 138 |
| Operations on the cardiovascular system35-39 | 4,424 | 2,630 | 1,794 |
| Removal of coronary artery obstruction36.0 | 399 | 262 | 136 |
| Coronary artery bypass graft ¹36.1 | 468 | 347 | 122 |
| Cardiac catheterization37.21-37.23 | 1,028 | 636 | 392 |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 274 | 140 | 134 |
| Shunt or vascular bypass39.0-39.2 | 178 | 99 | 79 |
| Hemodialysis39.95 | 322 | 156 | 167 |
| Operations on the hemic and lymphatic system40-41 | 398 | 202 | 195 |
| Operations on the digestive system42-54 | 5,358 | 2,258 | 3,100 |
| Endoscopy of small intestine with or without biopsy45.11-45.14,45.16 | 864 | 405 | 459 |
| Endoscopy of large intestine with or without biopsy45.21-45.25 | 573 | 238 | 335 |
| Partial excision of large intestine45.7 | 217 | 91 | 126 |
| Appendectomy, excluding incidental47.0 | 261 | 143 | 118 |
| Cholecystectomy51.2 | 525 | 165 | 360 |
| Repair of inguinal hernia53.0-53.1 | 139 | 121 | 18 |
| Lysis of peritoneal adhesions54.5 | 344 | 67 | 277 |
| Operations on the urinary system55-59 | 1,413 | 776 | 637 |
| Cystoscopy with or without biopsy57.31-57.33 | 414 | 291 | 123 |
| Operations on the male genital organs60-64 | 539 | 539 | . . . |
| Prostatectomy60.2-60.6 | 353 | 353 | . . . |
| Operations on the female genital organs65-71 | 2,302 | . . . | 2,302 |
| Oophorectomy and salpingo-oophorectomy65.3-65.6 | 464 | . . . | 464 |
| Bilateral destruction or occlusion of fallopian tubes66.2-66.3 | 380 | . . . | 380 |
| Hysterectomy68.3-68.7 | 580 | . . . | 580 |
| Dilation and curettage of uterus69.0 | 173 | . . . | 173 |
| Repair of cystocele and rectocele70.5 | 141 | . . . | 141 |
| Obstetrical procedures72-75 | 6,664 | . . . | 6,664 |
| Episiotomy with or without forceps or vacuum extraction72.1,72.21,72.31,72.71,73.6 | 1,611 | . . . | 1,611 |
| Artificial rupture of membranes73.0 | 729 | . . . | 729 |
| Cesarean section74.0-74.2,74.4,74.99 | 921 | . . . | 921 |
| Fetal EKG (scalp) and fetal monitoring, not otherwise specified75.32,75.34 | 1,241 | . . . | 1,241 |
| Repair of current obstetric laceration75.5-75.6 | 790 | . . . | 790 |
| Operations on the musculoskeletal system76-84 | 3,266 | 1,652 | 1,614 |
| Partial excision of bone76.2-76.3,77.6-77.8 | 222 | 115 | 107 |
| Open reduction of fracture with internal fixation79.3 | 417 | 187 | 230 |
| Excision or destruction of intervertebral disc80.5 | 319 | 175 | 144 |
| Total hip replacement81.51 | 127 | 49 | 79 |
| Total knee replacement81.54 | 167 | 53 | 115 |
| Operations on the integumentary system85-86 | 1,371 | 563 | 808 |
| Mastectomy85.4 | 117 | * | 116 |
| Debridement of wound, infection, or burn86.22,86.28 | 308 | 178 | 129 |
| Skin graft86.6-86.7 | 108 | 59 | 48 |
| Miscellaneous diagnostic and therapeutic procedures87-99 | 13,854 | 6,615 | 7,239 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 1,266 | 608 | 658 |
| Pyelogram87.73-87.75 | 203 | 105 | 98 |
| Arteriography and angiocardiology using contrast material88.4-88.5 | 1,771 | 1,060 | 711 |
| Diagnostic ultrasound88.7 | 1,458 | 587 | 871 |
| Circulatory monitoring89.6 | 596 | 287 | 309 |
| Radioisotope scan92.0-92.1 | 464 | 203 | 261 |
| Respiratory therapy93.9 | 819 | 381 | 438 |

¹The number of discharged patients with a coronary artery bypass graft was 309,000.

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 25. Rate of all-listed procedures for patients discharged from short-stay hospitals, by sex and procedure category: United States, 1992

[Discharges from non-Federal hospitals. Excludes newborn infants. Groupings of procedures by anatomical systems and code number inclusions 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 of all-listed procedures per 100,000 population | | |
| All procedures | 16,815.7 | 13,642.3 | 19,810.6 |
| Operations on the nervous system01-05 | 363.2 | 359.1 | 367.1 |
| Spinal tap03.31 | 133.7 | 149.4 | 118.8 |
| Operations on the endocrine system06-07 | 40.0 | 23.6 | 55.6 |
| Operations on the eye08-16 | 130.9 | 131.9 | 129.9 |
| Operations on the ear18-20 | 47.7 | 54.9 | 41.0 |
| Operations on the nose, mouth, and pharynx21-29 | 210.1 | 227.7 | 193.6 |
| Tonsillectomy with or without adenoidectomy28.2-28.3 | 31.4 | 26.9 | 35.6 |
| Operations on the respiratory system30-34 | 406.7 | 467.0 | 349.8 |
| Bronchoscopy with or without biopsy33.21-33.24,33.27 | 124.4 | 144.4 | 105.5 |
| Operations on the cardiovascular system35-39 | 1,745.1 | 2,136.9 | 1,375.4 |
| Removal of coronary artery obstruction36.0 | 157.2 | 213.3 | 104.3 |
| Coronary artery bypass graft ¹36.1 | 184.8 | 281.8 | 93.2 |
| Cardiac catheterization37.21-37.23 | 405.6 | 517.1 | 300.4 |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 108.1 | 113.5 | 102.9 |
| Shunt or vascular bypass39.0-39.2 | 70.3 | 80.8 | 60.4 |
| Hemodialysis39.95 | 127.2 | 126.5 | 127.8 |
| Operations on the hemic and lymphatic system40-41 | 156.8 | 164.4 | 149.7 |
| Operations on the digestive system42-54 | 2,113.6 | 1,834.4 | 2,377.0 |
| Endoscopy of small intestine with or without biopsy45.11-45.14,45.16 | 341.0 | 329.1 | 352.1 |
| Endoscopy of large intestine with or without biopsy45.21-45.25 | 226.0 | 193.5 | 256.7 |
| Partial excision of large intestine45.7 | 85.6 | 74.0 | 96.6 |
| Appendectomy, excluding incidental47.0 | 102.9 | 116.1 | 90.4 |
| Cholecystectomy51.2 | 207.1 | 133.9 | 276.1 |
| Repair of inguinal hernia53.0-53.1 | 54.9 | 98.2 | 14.1 |
| Lysis of peritoneal adhesions54.5 | 135.5 | 54.4 | 212.1 |
| Operations on the urinary system55-59 | 557.4 | 630.5 | 488.5 |
| Cystoscopy with or without biopsy57.31-57.33 | 163.5 | 236.5 | 94.6 |
| Operations on the male genital organs60-64 | 212.5 | 437.8 | ... |
| Prostatectomy60.2-60.6 | 139.1 | 286.6 | ... |
| Operations on the female genital organs65-71 | 908.2 | ... | 1,765.4 |
| Oophorectomy and salpingo-oophorectomy65.3-65.6 | 183.1 | ... | 355.9 |
| Bilateral destruction or occlusion of fallopian tubes66.2-66.3 | 149.8 | ... | 291.1 |
| Hysterectomy68.3-68.7 | 228.8 | ... | 444.7 |
| Dilation and curettage of uterus69.0 | 68.3 | ... | 132.8 |
| Repair of cystocele and rectocele70.5 | 55.7 | ... | 108.2 |
| Obstetrical procedures72-75 | 2,628.9 | ... | 5,109.9 |
| Episiotomy with or without forceps or vacuum extraction72.1,72.21,72.31,72.71,73.6 | 635.4 | ... | 1,235.1 |
| Artificial rupture of membranes73.0 | 287.5 | ... | 558.9 |
| Cesarean section74.0-74.2,74.4,74.99 | 363.3 | ... | 706.1 |
| Fetal EKG (scalp) and fetal monitoring, not otherwise specified75.32,75.34 | 489.6 | ... | 951.6 |
| Repair of current obstetric laceration75.5-75.6 | 311.8 | ... | 606.1 |
| Operations on the musculoskeletal system76-84 | 1,288.3 | 1,342.3 | 1,237.4 |
| Partial excision of bone76.2-76.3,77.6-77.8 | 87.6 | 93.7 | 81.7 |
| Open reduction of fracture with internal fixation79.3 | 164.4 | 151.9 | 176.3 |
| Excision or destruction of intervertebral disc80.5 | 125.9 | 142.4 | 110.4 |
| Total hip replacement81.51 | 50.1 | 39.4 | 60.2 |
| Total knee replacement81.54 | 66.1 | 42.9 | 87.9 |
| Operations on the integumentary system85-86 | 540.9 | 457.7 | 619.4 |
| Mastectomy85.4 | 46.0 | * | 88.8 |
| Debridement of wound, infection, or burn86.22,86.28 | 121.4 | 145.0 | 99.1 |
| Skin graft86.6-86.7 | 42.5 | 48.1 | 37.1 |
| Miscellaneous diagnostic and therapeutic procedures87-99 | 5,465.1 | 5,374.2 | 5,551.0 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 499.4 | 493.9 | 504.7 |
| Pyelogram87.73-87.75 | 79.9 | 85.0 | 75.1 |
| Arteriography and angiocardiology using contrast material88.4-88.5 | 698.7 | 861.3 | 545.2 |
| Diagnostic ultrasound88.7 | 575.2 | 477.2 | 667.6 |
| Circulatory monitoring89.6 | 234.9 | 232.9 | 236.9 |
| Radioisotope scan92.0-92.1 | 183.1 | 165.3 | 199.9 |
| Respiratory therapy93.9 | 323.2 | 309.6 | 335.9 |

¹The rate per 100,000 population of discharged patients with a coronary bypass graft was 121.9.

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 26. Number of all-listed procedures for patients discharged from short-stay hospitals, by race and procedure category: United States, 1992

[Discharges from non-Federal hospitals. Excludes newborn infants. Groupings of procedures by anatomical systems and code number inclusions are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

| Procedure category and ICD-9-CM code | All races | White | Black | All other | Not stated |
|---|-----------|--------|-------|-----------|------------|
| Number of all-listed procedures in thousands | | | | | |
| All procedures | 42,627 | 28,280 | 4,836 | 1,970 | 7,541 |
| Operations on the nervous system01-05 | 921 | 589 | 110 | 31 | 191 |
| Spinal tap03.31 | 339 | 178 | 56 | 18 | 86 |
| Operations on the endocrine system06-07 | 102 | 69 | 10 | *6 | 16 |
| Operations on the eye08-16 | 332 | 218 | 36 | 13 | 65 |
| Operations on the ear18-20 | 121 | 86 | *9 | * | 22 |
| Operations on the nose, mouth, and pharynx21-29 | 533 | 379 | 49 | 18 | 87 |
| Tonsillectomy with or without adenoidectomy28.2-28.3 | 80 | 52 | *6 | * | 20 |
| Operations on the respiratory system30-34 | 1,031 | 702 | 130 | 37 | 162 |
| Bronchoscopy with or without biopsy33.21-33.24,33.27 | 315 | 219 | 38 | 10 | 48 |
| Operations on the cardiovascular system35-39 | 4,424 | 3,070 | 439 | 150 | 766 |
| Removal of coronary artery obstruction36.0 | 399 | 291 | 12 | 13 | 83 |
| Coronary artery bypass graft ¹36.1 | 468 | 362 | 13 | 11 | 82 |
| Cardiac catheterization37.21-37.23 | 1,028 | 750 | 70 | 33 | 176 |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 274 | 199 | 19 | * | 51 |
| Shunt or vascular bypass39.0-39.2 | 178 | 111 | 31 | *6 | 31 |
| Hemodialysis39.95 | 322 | 154 | 86 | 27 | 54 |
| Operations on the hemic and lymphatic system40-41 | 398 | 282 | 41 | 14 | 61 |
| Operations on the digestive system42-54 | 5,358 | 3,652 | 565 | 174 | 967 |
| Endoscopy of small intestine with or without biopsy45.11-45.14,45.16 | 864 | 566 | 116 | 26 | 157 |
| Endoscopy of large intestine with or without biopsy45.21-45.25 | 573 | 404 | 59 | 11 | 98 |
| Partial excision of large intestine45.7 | 217 | 158 | 16 | *6 | 37 |
| Appendectomy, excluding incidental47.0 | 261 | 165 | 20 | 13 | 62 |
| Cholecystectomy51.2 | 525 | 362 | 34 | 22 | 107 |
| Repair of inguinal hernia53.0-53.1 | 139 | 102 | 11 | * | 22 |
| Lysis of peritoneal adhesions54.5 | 344 | 230 | 41 | 10 | 63 |
| Operations on the urinary system55-59 | 1,413 | 1,023 | 106 | 44 | 240 |
| Cystoscopy with or without biopsy57.31-57.33 | 414 | 302 | 32 | 9 | 72 |
| Operations on the male genital organs60-64 | 539 | 366 | 49 | 12 | 111 |
| Prostatectomy60.2-60.6 | 353 | 244 | 26 | *8 | 75 |
| Operations on the female genital organs65-71 | 2,302 | 1,498 | 290 | 98 | 417 |
| Oophorectomy and salpingo-oophorectomy65.3-65.6 | 464 | 318 | 47 | 14 | 85 |
| Bilateral destruction or occlusion of fallopian tubes66.2-66.3 | 380 | 216 | 59 | 28 | 76 |
| Hysterectomy68.3-68.7 | 580 | 396 | 58 | 18 | 108 |
| Dilation and curettage of uterus69.0 | 173 | 97 | 36 | 11 | 29 |
| Repair of cystocele and rectocele70.5 | 141 | 106 | * | * | 28 |
| Obstetrical procedures72-75 | 6,664 | 3,778 | 782 | 637 | 1,467 |
| Episiotomy with or without forceps or vacuum extraction72.1,72.21,72.31,72.71,73.6 | 1,611 | 958 | 128 | 121 | 403 |
| Artificial rupture of membranes73.0 | 729 | 421 | 69 | 89 | 150 |
| Cesarean section74.0-74.2,74.4,74.99 | 921 | 537 | 120 | 68 | 196 |
| Fetal EKG (scalp) and fetal monitoring, not otherwise specified75.32,75.34 | 1,241 | 697 | 156 | 179 | 209 |
| Repair of current obstetric laceration75.5-75.6 | 790 | 447 | 90 | 72 | 181 |
| Operations on the musculoskeletal system76-84 | 3,266 | 2,301 | 275 | 77 | 613 |
| Partial excision of bone76.2-76.3,77.6-77.8 | 222 | 165 | 19 | *6 | 32 |
| Open reduction of fracture with internal fixation79.3 | 417 | 287 | 34 | 9 | 87 |
| Excision or destruction of intervertebral disc80.5 | 319 | 243 | 19 | *7 | 50 |
| Total hip replacement81.51 | 127 | 94 | *6 | * | 25 |
| Total knee replacement81.54 | 167 | 124 | *7 | * | 35 |
| Operations on the integumentary system85-86 | 1,371 | 919 | 178 | 39 | 236 |
| Mastectomy85.4 | 117 | 83 | *8 | * | 22 |
| Debridement of wound, infection, or burn86.22,86.28 | 308 | 197 | 50 | 9 | 52 |
| Skin graft86.6-86.7 | 108 | 67 | 18 | * | 20 |
| Miscellaneous diagnostic and therapeutic procedures87-99 | 13,854 | 9,347 | 1,769 | 617 | 2,121 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 1,266 | 835 | 197 | 54 | 179 |
| Pyelogram87.73-87.75 | 203 | 140 | 17 | *7 | 38 |
| Arteriography and angiocardiology using contrast material88.4-88.5 | 1,771 | 1,318 | 136 | 55 | 262 |
| Diagnostic ultrasound88.7 | 1,458 | 944 | 239 | 72 | 202 |
| Circulatory monitoring89.6 | 596 | 378 | 88 | 40 | 89 |
| Radioisotope scan92.0-92.1 | 464 | 318 | 71 | 17 | 58 |
| Respiratory therapy93.9 | 819 | 482 | 126 | 54 | 157 |

¹The number of discharged patients with a coronary artery bypass graft was 309,000.

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 27. Rate of all-listed procedures for patients discharged from short-stay hospitals, by race and procedure category: United States, 1992

[Discharges from non-Federal hospitals. Excludes newborn infants. Groupings of procedures by anatomical systems and code number inclusions are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

| Procedure category and ICD-9-CM code | All races | White | Black | All other | Not stated |
|---|--|----------|----------|-----------|------------|
| | Rate of all-listed procedures per 100,000 population | | | | |
| All procedures | 16,815.7 | 13,359.3 | 15,437.3 | 18,790.8 | ... |
| Operations on the nervous system01-05 | 363.2 | 278.1 | 350.6 | 294.9 | ... |
| Spinal tap03.31 | 133.7 | 84.2 | 179.8 | 169.2 | ... |
| Operations on the endocrine system06-07 | 40.0 | 32.8 | 33.2 | *55.3 | ... |
| Operations on the eye08-16 | 130.9 | 103.0 | 113.4 | 125.9 | ... |
| Operations on the ear18-20 | 47.7 | 40.8 | *27.9 | * | ... |
| Operations on the nose, mouth, and pharynx21-29 | 210.1 | 179.0 | 155.2 | 174.3 | ... |
| Tonsillectomy with or without adenoidectomy28.2-28.3 | 31.4 | 24.4 | *19.9 | * | ... |
| Operations on the respiratory system30-34 | 406.7 | 331.6 | 415.5 | 351.6 | ... |
| Bronchoscopy with or without biopsy33.21-33.24,33.27 | 124.4 | 103.6 | 120.7 | 94.8 | ... |
| Operations on the cardiovascular system35-39 | 1,745.1 | 1,450.1 | 1,399.9 | 1,429.8 | ... |
| Removal of coronary artery obstruction36.0 | 157.2 | 137.4 | 38.8 | 122.6 | ... |
| Coronary artery bypass graft ¹36.1 | 184.8 | 171.2 | 42.4 | 106.3 | ... |
| Cardiac catheterization37.21-37.23 | 405.6 | 354.2 | 222.2 | 310.7 | ... |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 108.1 | 93.9 | 62.2 | * | ... |
| Shunt or vascular bypass39.0-39.2 | 70.3 | 52.5 | 97.6 | *57.5 | ... |
| Hemodialysis39.95 | 127.2 | 73.0 | 275.8 | 260.5 | ... |
| Operations on the hemic and lymphatic system40-41 | 156.8 | 133.3 | 131.1 | 130.6 | ... |
| Operations on the digestive system42-54 | 2,113.6 | 1,725.2 | 1,802.3 | 1,659.4 | ... |
| Endoscopy of small intestine with or without biopsy45.11-45.14,45.16 | 341.0 | 267.4 | 369.1 | 244.8 | ... |
| Endoscopy of large intestine with or without biopsy45.21-45.25 | 226.0 | 191.0 | 187.5 | 108.2 | ... |
| Partial excision of large intestine45.7 | 85.6 | 74.4 | 52.3 | *56.4 | ... |
| Appendectomy, excluding incidental47.0 | 102.9 | 78.0 | 63.7 | 128.3 | ... |
| Cholecystectomy51.2 | 207.1 | 170.9 | 109.6 | 211.3 | ... |
| Repair of inguinal hernia53.0-53.1 | 54.9 | 48.0 | 36.5 | * | ... |
| Lysis of peritoneal adhesions54.5 | 135.5 | 108.7 | 131.1 | 93.0 | ... |
| Operations on the urinary system55-59 | 557.4 | 483.5 | 339.7 | 415.1 | ... |
| Cystoscopy with or without biopsy57.31-57.33 | 163.5 | 142.5 | 101.3 | 88.4 | ... |
| Operations on the male genital organs60-64 | 212.5 | 172.9 | 157.5 | 118.0 | ... |
| Prostatectomy60.2-60.6 | 139.1 | 115.2 | 82.0 | *75.0 | ... |
| Operations on the female genital organs65-71 | 908.2 | 707.5 | 924.7 | 932.4 | ... |
| Oophorectomy and salpingo-oophorectomy65.3-65.6 | 183.1 | 150.1 | 150.0 | 137.0 | ... |
| Bilateral destruction or occlusion of fallopian tubes66.2-66.3 | 149.8 | 102.2 | 189.4 | 265.5 | ... |
| Hysterectomy68.3-68.7 | 228.8 | 187.0 | 186.4 | 167.3 | ... |
| Dilation and curettage of uterus69.0 | 68.3 | 45.8 | 116.5 | 102.9 | ... |
| Repair of cystocele and rectocele70.5 | 55.7 | 50.3 | * | * | ... |
| Obstetrical procedures72-75 | 2,628.9 | 1,784.9 | 2,494.8 | 6,077.7 | ... |
| Episiotomy with or without forceps or vacuum extraction72.1,72.21,72.31,72.71,73.6 | 635.4 | 452.5 | 409.3 | 1,157.2 | ... |
| Artificial rupture of membranes73.0 | 287.5 | 198.9 | 218.8 | 849.0 | ... |
| Cesarean section74.0-74.2,74.4,74.99 | 363.3 | 253.7 | 383.3 | 649.9 | ... |
| Fetal EKG (scalp) and fetal monitoring, not otherwise specified75.32,75.34 | 489.6 | 329.1 | 497.3 | 1,707.8 | ... |
| Repair of current obstetric laceration75.5-75.6 | 311.8 | 211.4 | 288.3 | 683.0 | ... |
| Operations on the musculoskeletal system76-84 | 1,288.3 | 1,086.8 | 876.8 | 736.7 | ... |
| Partial excision of bone76.2-76.3,77.6-77.8 | 87.6 | 77.7 | 62.2 | *57.9 | ... |
| Open reduction of fracture with internal fixation79.3 | 164.4 | 135.5 | 108.1 | 86.8 | ... |
| Excision or destruction of intervertebral disc80.5 | 125.9 | 114.8 | 61.1 | *64.6 | ... |
| Total hip replacement81.51 | 50.1 | 44.6 | *19.7 | * | ... |
| Total knee replacement81.54 | 66.1 | 58.5 | *22.2 | * | ... |
| Operations on the integumentary system85-86 | 540.9 | 434.1 | 568.9 | 367.3 | ... |
| Mastectomy85.4 | 46.0 | 39.1 | *26.1 | * | ... |
| Debridement of wound, infection, or burn86.22,86.28 | 121.4 | 93.1 | 158.9 | 89.9 | ... |
| Skin graft86.6-86.7 | 42.5 | 31.5 | 58.7 | * | ... |
| Miscellaneous diagnostic and therapeutic procedures87-99 | 5,465.1 | 4,415.6 | 5,645.8 | 5,885.0 | ... |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 499.4 | 394.6 | 630.1 | 518.1 | ... |
| Pyelogram87.73-87.75 | 79.9 | 66.3 | 53.0 | *69.3 | ... |
| Arteriography and angiocardiology using contrast material88.4-88.5 | 698.7 | 622.7 | 433.4 | 523.7 | ... |
| Diagnostic ultrasound88.7 | 575.2 | 446.1 | 762.7 | 691.2 | ... |
| Circulatory monitoring89.6 | 234.9 | 178.6 | 282.2 | 382.4 | ... |
| Radioisotope scan92.0-92.1 | 183.1 | 150.2 | 226.2 | 163.3 | ... |
| Respiratory therapy93.9 | 323.2 | 227.9 | 403.6 | 511.1 | ... |

¹The rate per 100,000 population of discharged patients with a coronary bypass graft was 121.9.

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey. Rates for race categories may be underestimated because race was not reported for all discharged patients.

Table 28. Number of all-listed procedures for patients discharged from short-stay hospitals, by geographic region and procedure category: United States, 1992

[Discharges from non-Federal hospitals. Excludes newborn infants. Groupings of procedures by anatomical systems and code number inclusions are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

| Procedure category and ICD-9-CM code | United States | North-east | Midwest | South | West |
|---|---------------|------------|---------|--------|-------|
| Number of all-listed procedures in thousands | | | | | |
| All procedures | 42,627 | 10,670 | 9,108 | 13,808 | 9,041 |
| Operations on the nervous system01-05 | 921 | 225 | 201 | 299 | 196 |
| Spinal tap03.31 | 339 | 78 | 57 | 116 | 88 |
| Operations on the endocrine system06-07 | 102 | 24 | 21 | 37 | 20 |
| Operations on the eye08-16 | 332 | 129 | 58 | 94 | 50 |
| Operations on the ear18-20 | 121 | 56 | 25 | 26 | 14 |
| Operations on the nose, mouth, and pharynx21-29 | 533 | 215 | 112 | 141 | 65 |
| Tonsillectomy with or without adenoidectomy28.2-28.3 | 80 | 32 | 23 | 15 | *8 |
| Operations on the respiratory system30-34 | 1,031 | 258 | 241 | 355 | 177 |
| Bronchoscopy with or without biopsy33.21-33.24,33.27 | 315 | 78 | 73 | 111 | 53 |
| Operations on the cardiovascular system35-39 | 4,424 | 1,023 | 1,042 | 1,557 | 802 |
| Removal of coronary artery obstruction36.0 | 399 | 82 | 112 | 117 | 88 |
| Coronary artery bypass graft ¹36.1 | 468 | 109 | 121 | 154 | 84 |
| Cardiac catheterization37.21-37.23 | 1,028 | 225 | 251 | 391 | 161 |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 274 | 75 | 54 | 94 | 51 |
| Shunt or vascular bypass39.0-39.2 | 178 | 44 | 37 | 67 | 30 |
| Hemodialysis39.95 | 322 | 71 | 49 | 127 | 75 |
| Operations on the hemic and lymphatic system40-41 | 398 | 104 | 88 | 137 | 68 |
| Operations on the digestive system42-54 | 5,358 | 1,244 | 1,202 | 1,974 | 938 |
| Endoscopy of small intestine with or without biopsy45.11-45.14,45.16 | 864 | 196 | 183 | 337 | 148 |
| Endoscopy of large intestine with or without biopsy45.21-45.25 | 573 | 165 | 143 | 191 | 74 |
| Partial excision of large intestine45.7 | 217 | 49 | 45 | 83 | 41 |
| Appendectomy, excluding incidental47.0 | 261 | 45 | 63 | 94 | 58 |
| Cholecystectomy51.2 | 525 | 119 | 108 | 191 | 106 |
| Repair of inguinal hernia53.0-53.1 | 139 | 47 | 33 | 44 | 16 |
| Lysis of peritoneal adhesions54.5 | 344 | 72 | 80 | 137 | 54 |
| Operations on the urinary system55-59 | 1,413 | 408 | 302 | 467 | 236 |
| Cystoscopy with or without biopsy57.31-57.33 | 414 | 126 | 103 | 147 | 39 |
| Operations on the male genital organs60-64 | 539 | 138 | 133 | 185 | 84 |
| Prostatectomy60.2-60.6 | 353 | 77 | 88 | 126 | 61 |
| Operations on the female genital organs65-71 | 2,302 | 454 | 470 | 916 | 463 |
| Oophorectomy and salpingo-oophorectomy65.3-65.6 | 464 | 68 | 107 | 190 | 99 |
| Bilateral destruction or occlusion of fallopian tubes66.2-66.3 | 380 | 59 | 68 | 171 | 82 |
| Hysterectomy68.3-68.7 | 580 | 85 | 130 | 241 | 123 |
| Dilation and curettage of uterus69.0 | 173 | 66 | 28 | 54 | 25 |
| Repair of cystocele and rectocele70.5 | 141 | 22 | 29 | 60 | 31 |
| Obstetrical procedures72-75 | 6,664 | 1,298 | 1,426 | 1,977 | 1,963 |
| Episiotomy with or without forceps or vacuum extraction72.1,72.21,72.31,72.71,73.6 | 1,611 | 301 | 383 | 540 | 387 |
| Artificial rupture of membranes73.0 | 729 | 135 | 163 | 157 | 274 |
| Cesarean section74.0-74.2,74.4,74.99 | 921 | 156 | 179 | 377 | 209 |
| Fetal EKG (scalp) and fetal monitoring, not otherwise specified75.32,75.34 | 1,241 | 302 | 273 | 178 | 488 |
| Repair of current obstetric laceration75.5-75.6 | 790 | 166 | 170 | 223 | 232 |
| Operations on the musculoskeletal system76-84 | 3,266 | 816 | 728 | 1,130 | 591 |
| Partial excision of bone76.2-76.3,77.6-77.8 | 222 | 50 | 54 | 77 | 41 |
| Open reduction of fracture with internal fixation79.3 | 417 | 86 | 89 | 164 | 79 |
| Excision or destruction of intervertebral disc80.5 | 319 | 57 | 71 | 132 | 59 |
| Total hip replacement81.51 | 127 | 30 | 32 | 38 | 27 |
| Total knee replacement81.54 | 167 | 31 | 52 | 58 | 27 |
| Operations on the integumentary system85-86 | 1,371 | 395 | 293 | 473 | 210 |
| Mastectomy85.4 | 117 | 22 | 31 | 41 | 22 |
| Debridement of wound, infection, or burn86.22,86.28 | 308 | 87 | 68 | 104 | 48 |
| Skin graft86.6-86.7 | 108 | 28 | 22 | 44 | 14 |
| Miscellaneous diagnostic and therapeutic procedures87-99 | 13,854 | 3,884 | 2,766 | 4,040 | 3,163 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 1,266 | 414 | 214 | 381 | 257 |
| Pyelogram87.73-87.75 | 203 | 51 | 47 | 78 | 27 |
| Arteriography and angiocardiology using contrast material88.4-88.5 | 1,771 | 406 | 437 | 659 | 268 |
| Diagnostic ultrasound88.7 | 1,458 | 423 | 257 | 402 | 376 |
| Circulatory monitoring89.6 | 596 | 148 | 113 | 114 | 220 |
| Radioisotope scan92.0-92.1 | 464 | 153 | 67 | 136 | 108 |
| Respiratory therapy93.9 | 819 | 188 | 127 | 177 | 328 |

¹The number of discharged patients with a coronary artery bypass graft was 309,000.

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Table 29. Rate of all-listed procedures for patients discharged from short-stay hospitals, by geographic region and procedure category: United States, 1992

[Discharges from non-Federal hospitals. Excludes newborn infants. Groupings of procedures by anatomical systems and code number inclusions are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

| Procedure category and ICD-9-CM code | United States | North-east | Midwest | South | West |
|---|---------------|------------|----------|----------|----------|
| Rate of all-listed procedures per 100,000 population | | | | | |
| All procedures | 16,815.7 | 20,911.9 | 15,032.6 | 15,817.0 | 16,563.0 |
| Operations on the nervous system01-05 | 363.2 | 440.1 | 331.6 | 342.9 | 359.0 |
| Spinal tap03.31 | 133.7 | 153.4 | 94.2 | 132.6 | 160.6 |
| Operations on the endocrine system06-07 | 40.0 | 47.2 | 34.4 | 41.9 | 36.7 |
| Operations on the eye08-16 | 130.9 | 253.2 | 95.8 | 108.2 | 91.9 |
| Operations on the ear18-20 | 47.7 | 109.1 | 41.2 | 30.0 | 25.9 |
| Operations on the nose, mouth, and pharynx21-29 | 210.1 | 421.2 | 184.7 | 161.5 | 118.8 |
| Tonsillectomy with or without adenoidectomy28.2-28.3 | 31.4 | 63.1 | 38.6 | 17.7 | *15.5 |
| Operations on the respiratory system30-34 | 406.7 | 506.2 | 398.5 | 406.3 | 323.4 |
| Bronchoscopy with or without biopsy33.21-33.24,33.27 | 124.4 | 152.0 | 120.7 | 127.4 | 97.8 |
| Operations on the cardiovascular system35-39 | 1,745.1 | 2,005.2 | 1,719.9 | 1,783.6 | 1,468.5 |
| Removal of coronary artery obstruction36.0 | 157.2 | 160.5 | 184.5 | 133.5 | 161.6 |
| Coronary artery bypass graft ¹36.1 | 184.8 | 214.5 | 199.4 | 176.3 | 154.2 |
| Cardiac catheterization37.21-37.23 | 405.6 | 441.3 | 413.9 | 447.9 | 295.4 |
| Insertion, replacement, removal, and revision of pacemaker leads or device37.7-37.8 | 108.1 | 147.6 | 88.7 | 108.1 | 92.6 |
| Shunt or vascular bypass39.0-39.2 | 70.3 | 86.4 | 60.7 | 76.7 | 55.6 |
| Hemodialysis39.95 | 127.2 | 139.5 | 80.5 | 145.5 | 138.0 |
| Operations on the hemic and lymphatic system40-41 | 156.8 | 204.0 | 145.7 | 157.0 | 124.8 |
| Operations on the digestive system42-54 | 2,113.6 | 2,437.1 | 1,984.2 | 2,261.0 | 1,718.9 |
| Endoscopy of small intestine with or without biopsy45.11-45.14,45.16 | 341.0 | 384.7 | 301.7 | 386.0 | 271.6 |
| Endoscopy of large intestine with or without biopsy45.21-45.25 | 226.0 | 322.9 | 235.5 | 219.1 | 135.9 |
| Partial excision of large intestine45.7 | 85.6 | 95.5 | 73.5 | 95.3 | 74.3 |
| Appendectomy, excluding incidental47.0 | 102.9 | 89.1 | 103.7 | 107.8 | 107.1 |
| Cholecystectomy51.2 | 207.1 | 233.2 | 179.0 | 219.1 | 194.6 |
| Repair of inguinal hernia53.0-53.1 | 54.9 | 92.2 | 53.9 | 50.2 | 28.7 |
| Lysis of peritoneal adhesions54.5 | 135.5 | 141.1 | 132.6 | 157.2 | 98.9 |
| Operations on the urinary system55-59 | 557.4 | 799.5 | 498.5 | 534.6 | 433.0 |
| Cystoscopy with or without biopsy57.31-57.33 | 163.5 | 246.5 | 169.7 | 168.1 | 71.8 |
| Operations on the male genital organs60-64 | 212.5 | 269.9 | 218.7 | 211.4 | 153.9 |
| Prostatectomy60.2-60.6 | 139.1 | 151.3 | 145.4 | 144.9 | 111.7 |
| Operations on the female genital organs65-71 | 908.2 | 889.0 | 775.5 | 1,049.5 | 847.6 |
| Oophorectomy and salpingo-oophorectomy65.3-65.6 | 183.1 | 133.6 | 176.5 | 218.2 | 180.6 |
| Bilateral destruction or occlusion of fallopian tubes66.2-66.3 | 149.8 | 115.2 | 111.7 | 195.7 | 151.0 |
| Hysterectomy68.3-68.7 | 228.8 | 167.3 | 215.4 | 276.3 | 225.2 |
| Dilation and curettage of uterus69.0 | 68.3 | 130.1 | 46.2 | 61.6 | 45.9 |
| Repair of cystocele and rectocele70.5 | 55.7 | 43.0 | 47.1 | 68.3 | 56.9 |
| Obstetrical procedures72-75 | 2,628.9 | 2,544.1 | 2,353.0 | 2,264.5 | 3,597.0 |
| Episiotomy with or without forceps or vacuum extraction72.1,72.21,72.31,72.71,73.6 | 635.4 | 589.3 | 632.8 | 618.7 | 708.4 |
| Artificial rupture of membranes73.0 | 287.5 | 264.1 | 269.4 | 179.8 | 501.9 |
| Cesarean section74.0-74.2,74.4,74.99 | 363.3 | 305.0 | 296.0 | 432.3 | 382.0 |
| Fetal EKG (scalp) and fetal monitoring, not otherwise specified75.32,75.34 | 489.6 | 592.6 | 450.4 | 203.9 | 893.6 |
| Repair of current obstetric laceration75.5-75.6 | 311.8 | 325.0 | 280.0 | 255.0 | 425.6 |
| Operations on the musculoskeletal system76-84 | 1,288.3 | 1,599.7 | 1,201.4 | 1,294.9 | 1,083.3 |
| Partial excision of bone76.2-76.3,77.6-77.8 | 87.6 | 98.3 | 89.8 | 88.1 | 74.2 |
| Open reduction of fracture with internal fixation79.3 | 164.4 | 167.9 | 146.6 | 187.4 | 144.3 |
| Excision or destruction of intervertebral disc80.5 | 125.9 | 111.0 | 117.5 | 151.2 | 108.8 |
| Total hip replacement81.51 | 50.1 | 58.4 | 53.0 | 43.7 | 49.4 |
| Total knee replacement81.54 | 66.1 | 60.0 | 85.9 | 66.7 | 48.6 |
| Operations on the integumentary system85-86 | 540.9 | 774.7 | 483.4 | 541.6 | 385.0 |
| Mastectomy85.4 | 46.0 | 44.1 | 51.5 | 46.9 | 40.4 |
| Debridement of wound, infection, or burn86.22,86.28 | 121.4 | 170.9 | 112.5 | 119.3 | 88.3 |
| Skin graft86.6-86.7 | 42.5 | 54.8 | 36.0 | 50.7 | 25.0 |
| Miscellaneous diagnostic and therapeutic procedures87-99 | 5,465.1 | 7,611.6 | 4,566.0 | 4,628.0 | 5,795.4 |
| Computerized axial tomography87.03,87.41,87.71,88.01,88.38 | 499.4 | 811.5 | 352.4 | 436.7 | 471.2 |
| Pyelogram87.73-87.75 | 79.9 | 100.0 | 77.7 | 89.3 | 48.6 |
| Arteriography and angiocardiology using contrast material88.4-88.5 | 698.7 | 796.5 | 721.8 | 754.9 | 491.7 |
| Diagnostic ultrasound88.7 | 575.2 | 828.9 | 424.1 | 460.9 | 688.6 |
| Circulatory monitoring89.6 | 234.9 | 290.5 | 187.0 | 131.0 | 402.6 |
| Radioisotope scan92.0-92.1 | 183.1 | 300.3 | 110.6 | 156.0 | 197.3 |
| Respiratory therapy93.9 | 323.2 | 368.1 | 209.3 | 202.8 | 600.0 |

¹The rate per 100,000 population of discharged patients with a coronary bypass graft was 121.9.

NOTE: See "Medical coding and edit," appendix I, for information about changes in coding system and coding modifications for the National Hospital Discharge Survey.

Appendixes

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Appendix I

Technical notes on methods

Statistical design of the National Hospital Discharge Survey

Scope of the survey—The National Hospital Discharge Survey (NHDS) covers discharges from noninstitutional hospitals, exclusive of Federal, military, and Department of Veterans Affairs hospitals, located in the 50 States and the District of Columbia. Only short-stay hospitals (hospitals with an average length of stay for all patients of less than 30 days) or those whose specialty is general (medical or surgical) or children's general are included in the survey. These hospitals must also have six beds or more staffed for patient use.

NHDS history—The National Center for Health Statistics (NCHS) has conducted the NHDS continuously since 1965. The original sample was selected in 1964 from a frame of short-stay hospitals listed in the National Master Facility Inventory. That sample was updated periodically with samples of hospitals that opened later. Sample hospitals were selected with probabilities ranging from certainty for the largest hospitals to 1 in 40 for the smallest hospitals. Within each sample hospital, a systematic random sample of discharges was selected. A description of the development and design of the original NHDS has been published (1).

Until 1985, all data were collected by a system in which sample selection and transcription of information were done manually. Starting in 1985 some data were also collected using a system in which NCHS purchased data tapes containing discharge medical abstracts from commercial abstracting services and selected the samples from those tapes.

In 1988, the NCHS redesigned the NHDS to link it with other surveys conducted by NCHS and to improve efficiency through use of information and technologies that were not available when the survey was first designed in 1964. Details of the new design are outlined below.

The changes in the survey may affect trend data. That is, some of the differences between NHDS estimates based on the 1965–87 sample and estimates based on the new sample may be due to survey redesign rather than to real changes in hospital utilization.

New sampling design—The 1988 NHDS sampling frame consisted of hospitals that were listed in the April 1987 SMG Hospital Market Database (2) and that began to accept inpatients by August 1987. The sampling frame was updated in 1991 to include hospitals from the 1991 SMG Hospital Market Database (3). The NHDS sample includes with certainty all hospitals with 1,000 beds or more or 40,000 discharges or

more annually. The remaining sample of hospitals is based on a stratified three-stage design.

The first stage consists of 112 primary sampling units (PSU's) that comprise a probability subsample of PSU's used in the 1985–94 National Health Interview Survey (NHIS). The PSU's are counties, groups of counties, county equivalents (such as parishes or independent cities), or towns and townships (for some PSU's in New England). The NHDS sample includes with certainty the 26 PSU's with the largest populations. In addition, the sample includes half of the next 26 largest PSU's, and one PSU from each of 73 PSU strata formed from the remaining PSU's for the NHIS sample design. Those 73 PSU strata were defined within four geographical regions and were assigned metropolitan statistical area (MSA) or non-MSA status by using 1980 Census of Population data and a computer program that minimized the between-PSU variances for NHIS stratification variables. (MSA is a metropolitan statistical area defined by the U.S. Office of Management and Budget on the basis of the 1980 Census.) From the 73 strata thus formed, the PSU's were selected with probability proportional to the projected 1985 population. A more detailed analysis of the NHIS PSU sample design is presented in a Series 2 *Vital and Health Statistics* report (6).

The second stage consists of noncertainty hospitals selected from the sample PSU's. To assure distribution of the sample across PSU's and to maximize the potential for automated data collection, the noncertainty hospitals in those PSU's were stratified. The strata were defined by region, PSU, and in the 12 largest PSU's, by abstracting status (whether or not the hospital subscribes to a commercial abstracting service). Within the strata, the hospitals were ordered by PSU, abstracting service status, and the hospital specialty-size groups defined in table I. Within each specialty-size group, hospitals were arrayed by their annual numbers of discharges recorded in the April 1987 SMG Hospital Market Database. Hospitals were then selected from each stratum's ordered array by systematic random sampling with probability proportional to their SMG-recorded 1987 annual numbers of discharges. The sampling rates were such that at least three hospitals were selected from every PSU containing three eligible hospitals or more. In PSU's with fewer than three hospitals, all hospitals in the PSU were selected. For 1992, the sample consisted of 528 hospitals. Of the 528 hospitals, 14 were found to be out of scope (ineligible) because prior to 1992 they went out of business or otherwise failed to meet the criteria for the NHDS universe. Of the 514 in-scope (eligible) hospitals, 494 hospi-

Table I. Definition of noncertainty hospital specialty-size groups used as secondary strata in the National Hospital Discharge Survey 1992 sample design

| Hospital group | Bed size | Type of service |
|----------------|--------------|---|
| Group 1 | 6-999 beds | Selected specialties ¹ |
| Group 2 | 6-174 beds | General (medical and surgical) and other specialties ² |
| Group 3 | 175-349 beds | General (medical and surgical) and other specialties ² |
| Group 4 | 350-999 beds | General (medical and surgical) and other specialties ² |

¹Includes psychiatry, tuberculosis and other respiratory disease, rehabilitation, chronic disease, mental retardation, alcoholism and other chemical dependency, and children's psychiatry.

²"Other specialties" include obstetrics and gynecology; eye, ear, nose, and throat; orthopedics; other specialty; children's general; children's tuberculosis and other respiratory disease; children's eye, ear, nose, and throat; children's rehabilitation; children's orthopedics; children's chronic disease; and children's other specialty.

Table II. Number of hospitals in the National Hospital Discharge Survey universe and sample, number of in-scope and responding sample hospitals, and response rates, by geographic region: United States, 1992

| Geographic region | Universe | Total sample | Sample in-scope ¹ | Respondents ² | Response rate |
|-------------------|----------|--------------|------------------------------|--------------------------|---------------|
| | | | Number | Number | Percent |
| All regions | 6,250 | 528 | 514 | 494 | 96 |
| Northeast | 917 | 113 | 112 | 111 | 99 |
| Midwest | 1,740 | 117 | 112 | 107 | 96 |
| South | 2,387 | 217 | 215 | 207 | 96 |
| West | 1,206 | 81 | 75 | 69 | 92 |

¹Excludes hospitals that for the whole year either were out of business or failed to meet the definition of a general, a children's general, or a short-stay hospital.

²Hospitals for which data were collected by the National Center for Health Statistics for at least half the number of sample discharges expected in half or more of the months the hospitals were in scope.

tals responded (NCHS collected data for at least half of the number of sample discharges expected in half or more of the months these hospitals were in scope). The number of hospitals in the universe, the sample, and the responding sample are shown by region in table II.

At the third stage, a sample of discharges from each hospital was selected by a systematic random sampling technique. For hospitals using the manual system of data collection, the discharges were selected at the hospital from daily listing sheets, computer files, or other lists in which discharges were listed in some chronological order. For most of these hospitals, the sample discharges were selected on the basis of the terminal digit(s) of the patient's medical record number. In some cases, an admission number, billing number, or other number was used. If no patient numbers useful for sampling purposes were available in a hospital's list of discharges, the sample was selected by starting with a randomly selected discharge and taking every *k*th discharge thereafter.

For hospitals whose data were collected via the automated system, the discharges were selected by NCHS from discharge medical abstract files after sorting by the first two digits of the ICD-9-CM code of the first-listed diagnosis, patient age group at time of admission (under 1 year, 1-14 years, 15-44 years, 45-64 years, 65-74 years, 75-84 years, 85 years and over, and age unknown), sex, and date of discharge. These samples were selected by starting with a randomly selected discharge and taking every *k*th discharge thereafter.

The third-stage sampling rate was determined by the hospital's sampling stratum and the system (manual or automated) used to collect data from the hospital. One percent and 5 percent of discharges in the certainty hospitals were selected

under the manual and automated systems, respectively. Except for certainty hospitals, the target sample size was 250 discharges each from all manual system hospitals and from the automated system hospitals that had fewer than 4,000 discharges annually according to the 1987 sampling frame data. Samples of 2,000 were targeted for each of the remaining noncertainty automated system hospitals. The final sample for 1992 included 274,000 discharge medical record abstracts.

Data collection and processing

Data collection—Two data collection procedures were used for the survey. One was a manual system of sample selection and data abstraction. The other was an automated method, used with approximately 34 percent of the respondent hospitals in 1992, that involved the purchase of data tapes from abstracting service organizations and selected state systems.

In the manual system, the sample selection and the transcription of information from the hospital records to abstract forms were performed at the hospitals. The completed forms, along with sample selection control sheets, were then forwarded to NCHS for coding, editing, and weighting. A few of these hospitals submitted their data via computer printout or tape. Of the hospitals using the manual system in 1992, 58 percent had the work performed by their own medical records staff. In the remaining hospitals using the manual system, personnel of the U.S. Bureau of the Census did this work on behalf of NCHS. For the automated system, NCHS purchased tapes containing machine-readable medical record data and selected sample discharges from these tapes.

Figure I shows the information collection form used in 1992. This form and the records on abstract service data tapes contain items relating to personal characteristics of the patient, including birth date, sex, race, ethnicity, marital status, ZIP Code (but not name and address), and expected sources of payment; administrative information, including admission and discharge dates, discharge status, and medical record number; and medical information, including diagnoses, surgical and nonsurgical operations or procedures, and dates of surgery. These data items conform with the Uniform Hospital Discharge Data Set (UHDDS) (7). The PSU, hospital name, medical record number, date of birth, and patient ZIP Code are confidential information and are not available to the public.

Medical coding and edit—The medical information recorded on the sample patient abstracts that was collected by the manual system was coded by NCHS staff. A maximum of seven diagnostic codes were assigned for each sample abstract; in addition, if the medical information included surgical or nonsurgical procedures, a maximum of four codes for these procedures were assigned. The system currently used for coding the diagnoses and procedures on the medical abstract forms, as well as the data that appear on the commercial abstracting services data tapes, is the *International Classification of Diseases, 9th Revision, Clinical Modification*, or ICD-9-CM (4).

Although the ICD-9-CM has been used for coding NHDS data since 1979, it should be noted that this coding system is not static, but undergoes periodic updating. The volumes used to code the 1992 data are the third edition of the ICD-9-CM. Beginning October 1, 1986, annual addenda to the ICD-9-CM have been published. These addenda, which go into effect on October 1 of affected years, add, delete, or change codes. The actual dates when these coding changes go into effect vary by source of data. Thus for a given data year different codes may refer to the same diagnosis or procedure. Because data are generally presented in this report by aggregated groups of codes, the coding changes have had limited impact.

With two exceptions, the order of diagnoses and procedures for sampled discharges is preserved to reflect the order on the medical record fact sheet or in the abstracting service file. One exception is for women admitted for delivery. In this case, a code of V27 from the supplemental classification must be assigned and it must be listed first. In the other exception, a decision was made to reorder some acute myocardial infarction diagnoses based on accepted medical coding practice. Whenever an acute myocardial infarction is encountered with other circulatory diagnoses and is other than the first entry, it must be reordered to first position.

An ongoing quality control program is undertaken on the coding and entering of data from abstracts to machine readable form. Approximately 5 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 by NCHS for the 1992 data year was 3.5 percent for medical (ICD-9-CM) coding and entering and 0.8 percent for demographic coding and entering.

Following conversion of the data on the medical abstract to computer tape and combining the data with the automated

data tapes, a final medical edit was performed by computer inspection and by a manual review of rejected abstracts. If the sex or age of the patient was incompatible with the recorded medical information, priority was given to the medical information in the editing decision.

Presentation of estimates

Grouping of diagnoses and procedures—In this report, the broadest groupings of disease and injuries shown correspond to ICD-9-CM chapters 1-17 and the supplementary classification of factors influencing health status and contact with health services. The diagnostic categories, the most detailed groupings of diseases and injuries shown, are subsets of the major groups or chapters. The titles and the ordering of the categories in the tabular list developed for NHDS follow the format of the ICD-9-CM tabular list as closely as possible.

The procedure groupings used in this report are the groups numbered 1-16 in the ICD-9-CM section entitled "Procedure Classification." Specific categories of operations or procedures, the most detailed of these groupings shown, are subsets of the major groups and are based on the four-digit codes provided by the ICD-9-CM.

In developing tables of diagnoses and of procedures, an effort was made to present data for the most frequently occurring conditions or procedures, as well as those of significant public health interest.

Patient characteristics not stated—Less than half of one percent of the discharge records failed to include the sex of the patient. Age or date of birth was available for all records. If the hospital record did not state the age or sex of the patient, it was imputed by assigning the patient an age or sex consistent with the age or sex of other sampled patients with the same diagnostic code. In approximately one percent of the records, the age or sex was edited because it was inconsistent with the diagnosis. Data on race was missing for 25 percent of the records, and no attempt was made to impute for these missing values.

During 1992, 10 percent of the records lacked the day of admission or day of discharge, but included a length of stay and a discharge month. For records with a length of stay more than 30 days, a discharge day of the 20th of the month was assigned to the record and the admission date was computed based on the given length of stay. For records with a length of stay 30 days or less, a discharge day of the 30th of the month was assigned and the admission date was computed from the length of stay. Other edit and imputation procedures may have been applied to data in the NHDS collected in automated form.

Rounded numbers—Estimates in this report have been rounded. Therefore, detailed figures may not add to totals. Rates and percents were calculated using unrounded figures and may not agree with computations made from the rounded data.

Population estimates—The population estimates used in computing rates are from published and unpublished estimates for the U.S. civilian population, including institutionalized

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

FORM **HDS-1**
(10-28-90)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
U.S. PUBLIC HEALTH SERVICE
CENTERS FOR DISEASE CONTROL
NATIONAL CENTER FOR HEALTH STATISTICS

MEDICAL ABSTRACT — NATIONAL HOSPITAL DISCHARGE SURVEY

| | |
|--|---|
| <p>A. PATIENT IDENTIFICATION</p> <p>1. Hospital number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>2. HDS number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>3. Medical record number</p> | <p style="text-align: center;">Month Day Year</p> <p>4. Date of admission ... <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/></p> <p>5. Date of discharge ... <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/></p> <p>6. Residence ZIP code .. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> |
|--|---|

| | |
|---|--|
| <p>B. PATIENT CHARACTERISTICS</p> <p>7. Date of birth Month Day Year <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> | <p>8. Age (Complete only if date of birth not given) <input type="text"/> <input type="text"/> <input type="text"/> Units</p> <p style="font-size: 2em;">}</p> <p>1 <input type="checkbox"/> Years 2 <input type="checkbox"/> Months 3 <input type="checkbox"/> Days</p> |
|---|--|

| | | | |
|-----------------------------------|--|---|--|
| 9. Sex (Mark (X) one) | 1 <input type="checkbox"/> Male | 2 <input type="checkbox"/> Female | 3 <input type="checkbox"/> Not stated |
| 10. Race | 1 <input type="checkbox"/> White | 3 <input type="checkbox"/> American Indian/Eskimo/Aleut | 5 <input type="checkbox"/> Other (Specify) _____ |
| | 2 <input type="checkbox"/> Black | 4 <input type="checkbox"/> Asian/Pacific Islander | 6 <input type="checkbox"/> Not stated |
| 11. Ethnicity (Mark (X) one) | 1 <input type="checkbox"/> Hispanic origin | 2 <input type="checkbox"/> Non-Hispanic | 3 <input type="checkbox"/> Not stated |
| 12. Marital status (Mark (X) one) | 1 <input type="checkbox"/> Married | 3 <input type="checkbox"/> Widowed | 5 <input type="checkbox"/> Separated |
| | 2 <input type="checkbox"/> Single | 4 <input type="checkbox"/> Divorced | 6 <input type="checkbox"/> Not stated |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|-----------------------------|---|--------------------------|--|--|--------------------------|--|--|--------------------------|--|---|--------------------------|--|---|--------------------------|--------------------------|--|--------------------------|--|---|--------------------------|------------------------|--|--------------------------|--|---|--------------------------|--|--|--------------------------|---|--------|-------------|----------------------------------|---|--|---|--|--|--|---|--|--|---------------------------------|--|--|--|
| <p>13. Expected source(s) of payment</p> <table style="width:100%;"> <tr> <td style="width:30%;"></td> <td style="width:10%; text-align: center;">Principal (Mark one only)</td> <td style="width:10%; text-align: center;">Other additional sources (Mark accordingly)</td> </tr> <tr> <td>Government sources {</td> <td>1. Worker's compensation <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>2. Medicare <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>3. Medicaid <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>4. Title V <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>5. Other government payments <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Private sources {</td> <td>6. Blue Cross <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>7. Other private or commercial insurance ... <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Other sources {</td> <td>8. Self pay <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>9. No charge <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>10. Other (Specify) _____ <input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> <p><input type="checkbox"/> No source of payment indicated</p> | | Principal (Mark one only) | Other additional sources (Mark accordingly) | Government sources { | 1. Worker's compensation <input type="checkbox"/> | <input type="checkbox"/> | | 2. Medicare <input type="checkbox"/> | <input type="checkbox"/> | | 3. Medicaid <input type="checkbox"/> | <input type="checkbox"/> | | 4. Title V <input type="checkbox"/> | <input type="checkbox"/> | | 5. Other government payments <input type="checkbox"/> | <input type="checkbox"/> | Private sources { | 6. Blue Cross <input type="checkbox"/> | <input type="checkbox"/> | | 7. Other private or commercial insurance ... <input type="checkbox"/> | <input type="checkbox"/> | Other sources { | 8. Self pay <input type="checkbox"/> | <input type="checkbox"/> | | 9. No charge <input type="checkbox"/> | <input type="checkbox"/> | | 10. Other (Specify) _____ <input type="checkbox"/> | <input type="checkbox"/> | <p>14. Status/Disposition of patient (Mark (X) appropriate box(es))</p> <table style="width:100%;"> <tr> <td style="width:50%;">Status</td> <td style="width:50%;">Disposition</td> </tr> <tr> <td>1 <input type="checkbox"/> Alive</td> <td>a. <input type="checkbox"/> Routine discharge/discharged home</td> </tr> <tr> <td></td> <td>b. <input type="checkbox"/> Left against medical advice</td> </tr> <tr> <td></td> <td>c. <input type="checkbox"/> Discharged, transferred to another short-term hospital</td> </tr> <tr> <td></td> <td>d. <input type="checkbox"/> Discharged, transferred to long-term care institution</td> </tr> <tr> <td></td> <td>e. <input type="checkbox"/> Other disposition/not stated</td> </tr> <tr> <td>2 <input type="checkbox"/> Died</td> <td></td> </tr> <tr> <td>3 <input type="checkbox"/> Status not stated</td> <td></td> </tr> </table> | Status | Disposition | 1 <input type="checkbox"/> Alive | a. <input type="checkbox"/> Routine discharge/discharged home | | b. <input type="checkbox"/> Left against medical advice | | c. <input type="checkbox"/> Discharged, transferred to another short-term hospital | | d. <input type="checkbox"/> Discharged, transferred to long-term care institution | | e. <input type="checkbox"/> Other disposition/not stated | 2 <input type="checkbox"/> Died | | 3 <input type="checkbox"/> Status not stated | |
| | Principal (Mark one only) | Other additional sources (Mark accordingly) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Government sources { | 1. Worker's compensation <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2. Medicare <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3. Medicaid <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4. Title V <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5. Other government payments <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Private sources { | 6. Blue Cross <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7. Other private or commercial insurance ... <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other sources { | 8. Self pay <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9. No charge <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10. Other (Specify) _____ <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Status | Disposition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 <input type="checkbox"/> Alive | a. <input type="checkbox"/> Routine discharge/discharged home | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | b. <input type="checkbox"/> Left against medical advice | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | c. <input type="checkbox"/> Discharged, transferred to another short-term hospital | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | d. <input type="checkbox"/> Discharged, transferred to long-term care institution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | e. <input type="checkbox"/> Other disposition/not stated | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 <input type="checkbox"/> Died | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 <input type="checkbox"/> Status not stated | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|--|--------------------------|
| C. FINAL DIAGNOSES (including E- code diagnoses) | Optional — ICD-9-CM Nos. |
| Principal: _____ | • |
| Other/additional: _____ | • |
| _____ | • |
| _____ | • |
| _____ | • |
| _____ | • |
| <input type="checkbox"/> See reverse side for additional diagnoses | |

| | |
|---|--------------------------|
| D. SURGICAL AND DIAGNOSTIC PROCEDURES | Date |
| | Month Day Year |
| Principal: 1. _____ | • |
| Other/additional: 2. _____ | • |
| 3. _____ | • |
| 4. _____ | • |
| <input type="checkbox"/> NONE <input type="checkbox"/> See reverse side for additional procedures | |

| | |
|--------------------|------------|
| Completed by _____ | Date _____ |
|--------------------|------------|

Figure I. Medical abstract for the National Hospital Discharge Survey, 1992

*U.S.GPO:1990-548-021/20156

persons, on July 1 of the data year provided by the U.S. Bureau of the Census. The estimates by age, sex, race, and geographic region are presented in table III and are consistent with the population estimates published in *Current Population Reports*, Series P-25. Rates computed using these population estimates will be overestimates to the extent that military personnel and non-U.S. citizens use NHDS-eligible hospitals and will be underestimates to the extent that civilians (for example, military dependents or retirees) use hospitals that are not in the NHDS universe, that is, hospitals that are institutional, Federal, military, veteran, or long-stay hospitals that are not general, maternal, or children's general hospitals.

Published and flagged estimates—Estimates are not presented unless a reasonable assumption regarding the probability distribution of the sampling error is possible on the basis of the Central Limit Theorem. The Central Limit Theorem states that, given a sufficiently large sample size, the sample estimate approximates the population estimate, and upon repeated sampling, its distribution would be approximately normal.

Because of the complex sample design of the NHDS, estimates of less than 5,000 are not presented; only an asterisk (*) appears in the tables. These estimates generally have a relative standard error of more than 30 percent or are based on a sample of less than 30 cases. Estimates of 5,000–9,000 are presented with an asterisk (*) to indicate that they may not be reliable. These estimates are generally based on less than 60 cases.

Estimation procedures

Statistics from NHDS are derived by a multistage estimation procedure that 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. The second and third components were made separately by admission types—that is, for discharges of newborn infants (whose hospital stay began with their own births) and for discharges to other than newborn infants.

Inflation by reciprocals of probabilities of selection—There is one probability for each stage of sampling: (a) the probability of selecting the PSU, (b) the probability of selecting the hospital, and (c) the probability of selecting the discharge within the hospital. The last probability varies monthly and is calculated to be the sample size from the hospital for the month divided by the total number of discharges occurring at the hospital that month. The overall probability of selection is the product of the probabilities at each stage. The inverse of the overall selection probability is the basic inflation weight.

Adjustment for nonresponse—NHDS data were adjusted to account for two types of nonresponse. The first type of nonresponse occurred when an in-scope (NHDS-eligible) sample hospital did not respond for more than half of the months during which it was in scope, thus making it a nonrespondent hospital. In this case, the weights of discharges from hospitals similar to the nonrespondent hospitals were inflated to account for discharges represented by the nonrespondent hospitals. For this purpose, hospitals were judged to be similar if they were

in the same region, hospital specialty-size group, and if possible, the same sampling stratum (that is, the same abstracting status group if the nonrespondent hospital was in the 12 largest PSU's and in the same PSU, otherwise). The adjustments for this nonresponse were made separately for admission types—that is, for discharges of newborn infants and for all other discharges. The adjustment consisted of a ratio for which the numerator was the weighted number of discharges of the admission type in all similar sample hospitals (regardless of response status) and the denominator was the weighted total of discharges of that admission type from the hospitals similar to the nonrespondent hospitals. Data on the number of discharges for each admission type for each hospital came from either the hospitals or the April 1993 SMG Hospital Market Database (8).

The second type of nonresponse occurred when NCHS failed to collect all the discharge abstracts expected (the number expected is the product of the hospital's total discharges each month and the discharge sampling rate assigned to the hospital). In each month when the hospital was respondent (at least half the expected abstracts were collected), the weights of abstracts collected for the month were inflated to account for the missing abstracts. For a hospital's month(s) of nonresponse, the weights of discharges in the hospital's respondent months were inflated by ratios that varied with discharge groups defined by the ICD-9-CM diagnostic classes of those discharges' first-listed diagnoses. The adjustment ratio for each partially respondent hospital and each discharge group was calculated using only data from sample hospitals that were both NHDS eligible and respondent for all 12 months of the data year. The ratio had as its numerator the weighted sum of discharges in that discharge group for all months in which the partially respondent hospital was in scope and had as its denominator the weighted sum of discharges in that discharge group that occurred in the months when the partially respondent hospital did respond to the NHDS.

Population weighting ratio adjustment—Adjustments were made within each of 16 noncertainty hospital groups defined by region and hospital specialty-size classes to adjust for oversampling or undersampling of discharges reported in the sampling frame for the data year. For discharges other than newborn infants, the adjustment is a multiplicative factor that had as its numerator the number of admissions reported for the year at sampling frame hospitals within each region-specialty-size group and as its denominator the estimated number of those admissions for that same hospital group. The adjustment for discharges of newborn infants was similar, but numbers of births were used in place of admissions. The ratio numerators were based on the figures obtained from the SMG Hospital Market Database (8) and the ratio denominators were obtained through a simple inflation of the SMG figures for the NHDS sample hospitals.

Reliability of estimates

Nonsampling errors—As from any survey, results are subject to nonsampling errors, which include errors that are

Table III. Civilian population by selected characteristics: United States, 1992

[Population estimates consistent with Series P-25, Current Population Reports, U.S. Bureau of the Census]

| Age, geographic region, and race | Both sexes | Male | Female | Age, geographic region, and race | Both sexes | Male | Female |
|----------------------------------|------------|---------|---------|----------------------------------|------------|--------|--------|
| All ages | | | | Population in thousands | | | |
| Total | 253,497 | 123,081 | 130,416 | | | | |
| Region: | | | | | | | |
| Northeast | 51,026 | 24,533 | 26,494 | | | | |
| Midwest | 60,586 | 29,410 | 31,176 | | | | |
| South | 87,299 | 42,088 | 45,211 | | | | |
| West | 54,586 | 27,051 | 27,535 | | | | |
| Race: | | | | | | | |
| White | 211,686 | 103,236 | 108,451 | | | | |
| Black | 31,326 | 14,732 | 16,594 | | | | |
| All other | 10,485 | 5,114 | 5,372 | | | | |
| Under 15 years | | | | | | | |
| Total | 55,962 | 28,653 | 27,309 | | | | |
| Under 1 year | 3,984 | 2,039 | 1,945 | | | | |
| 1-4 years | 15,528 | 7,947 | 7,581 | | | | |
| 5-14 years | 36,450 | 18,667 | 17,783 | | | | |
| Region: | | | | | | | |
| Northeast | 10,361 | 5,307 | 5,054 | | | | |
| Midwest | 13,422 | 6,875 | 6,547 | | | | |
| South | 19,251 | 9,846 | 9,404 | | | | |
| West | 12,929 | 6,624 | 6,304 | | | | |
| Race: | | | | | | | |
| White | 44,581 | 22,883 | 21,698 | | | | |
| Black | 8,663 | 4,385 | 4,277 | | | | |
| All other | 2,719 | 1,385 | 1,334 | | | | |
| 15-44 years | | | | | | | |
| Total | 116,946 | 58,110 | 58,836 | | | | |
| 15-24 years | 35,500 | 17,915 | 17,586 | | | | |
| 25-34 years | 41,842 | 20,699 | 21,143 | | | | |
| 35-44 years | 39,604 | 19,496 | 20,108 | | | | |
| Region: | | | | | | | |
| Northeast | 23,342 | 11,561 | 11,782 | | | | |
| Midwest | 27,641 | 13,750 | 13,892 | | | | |
| South | 40,106 | 19,705 | 20,401 | | | | |
| West | 25,856 | 13,094 | 12,762 | | | | |
| | | | | 15-44 years—Con. | | | |
| | | | | Population in thousands | | | |
| | | | | Race: | | | |
| | | | | White | 96,310 | 48,273 | 48,037 |
| | | | | Black | 15,231 | 7,192 | 8,039 |
| | | | | All other | 5,406 | 2,645 | 2,761 |
| | | | | 45-64 years | | | |
| | | | | Total | 48,304 | 23,274 | 25,031 |
| | | | | 45-54 years | 27,379 | 13,362 | 14,017 |
| | | | | 55-64 years | 20,926 | 9,912 | 11,014 |
| | | | | Region: | | | |
| | | | | Northeast | 10,198 | 4,862 | 5,335 |
| | | | | Midwest | 11,561 | 5,596 | 5,965 |
| | | | | South | 16,787 | 8,030 | 8,757 |
| | | | | West | 9,758 | 4,786 | 4,972 |
| | | | | Race: | | | |
| | | | | White | 41,772 | 20,325 | 21,446 |
| | | | | black | 4,835 | 2,154 | 2,681 |
| | | | | All other | 1,698 | 794 | 903 |
| | | | | 65 years and over | | | |
| | | | | Total | 32,285 | 13,045 | 19,240 |
| | | | | 65-74 years | 18,461 | 8,125 | 10,336 |
| | | | | 75 years and over | 13,824 | 4,920 | 8,904 |
| | | | | Region: | | | |
| | | | | Northeast | 7,125 | 2,803 | 4,323 |
| | | | | Midwest | 7,962 | 3,189 | 4,773 |
| | | | | South | 11,155 | 4,506 | 6,648 |
| | | | | West | 6,043 | 2,546 | 3,496 |
| | | | | Race: | | | |
| | | | | White | 29,024 | 11,754 | 17,269 |
| | | | | Black | 2,598 | 1,001 | 1,597 |
| | | | | All other | 663 | 289 | 374 |

due to sampling frame errors, hospital nonresponse, missing abstracts, and recording processing errors. The magnitude of the nonsampling errors cannot be determined. However, errors resulting from the exclusion of in-scope hospitals from the sampling frame are believed to be small because the hospitals excluded are hospitals that opened after the frame was constructed and, hence, they tend to have few discharges relative to hospitals that are in the frame. Other nonsampling errors are kept to a minimum by methods built into the survey procedures, such as training the data collectors in sampling and data abstraction, quality checks of sampling and abstracting, manual and computer editing, and verification of keypunching and coding. Some nonsampling errors are discussed under "Presentation of estimates."

Sampling errors—Because the statistics presented in this report are based on a sample, they may differ from the figures that would be obtained if a complete census had been taken using the same forms, definitions, instructions, and procedures. However, the probability design of NHDS permits the calculation of sampling errors. The standard error is primarily

a measure of sampling variability that occurs by chance because only a sample rather than the entire population is surveyed. The standard error, as calculated for the NHDS, also reflects part of the variation that arises in the measurement process, but does not include estimates of any systematic bias. The chances are about 68 in 100 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 95 in 100 that the difference would be less than twice the standard error, and about 99 in 100 that it would be less than 2.5 times as large.

The relative standard error of an estimate is obtained by dividing the standard error by the estimate. The resulting value is multiplied by 100, which expresses the relative standard error as a percent of the estimate.

Estimates of sampling variability were calculated with SESUDAAN software, which computes standard errors by using a first-order Taylor approximation of the deviation of estimates from their expected values. A description of the software and the approach it uses was published (9).

Table IV. Estimated parameters for relative standard error equations for National Hospital Discharge Survey statistics by selected characteristics: United States, 1992

| Characteristic | Number of discharges or first-listed diagnoses | | Number of all-listed diagnoses | | Number of days of care | | Number of procedures | |
|---------------------------------|--|-----------|--------------------------------|------------|------------------------|------------|----------------------|-----------|
| | a | b | a | b | a | b | a | b |
| Total | 0.00097 | 449.059 | 0.00109 | 522.555 | 0.00150 | 2,671.104 | 0.00143 | 377.158 |
| Sex | | | | | | | | |
| Male | 0.00377 | 355.244 | 0.00337 | 270.306 | 0.00823 | 995.275 | 0.00465 | 336.276 |
| Female | 0.00089 | 404.530 | 0.00100 | 427.561 | 0.00149 | 1,914.510 | 0.00124 | 416.841 |
| Age | | | | | | | | |
| Under 15 years | 0.06075 | 81.775 | 0.05545 | 74.719 | 0.12836 | 71.171 | 0.10248 | 74.715 |
| 15-44 years | 0.01291 | 44.505 | 0.00691 | 114.487 | 0.02014 | 222.396 | 0.00903 | 153.675 |
| 45-64 years | 0.00656 | 147.706 | 0.00701 | 130.811 | 0.01746 | 151.920 | 0.00494 | 292.564 |
| 65 years and over | 0.00175 | 464.831 | 0.00011 | 723.890 | 0.01680 | 456.313 | 0.00986 | 288.155 |
| Region | | | | | | | | |
| Northeast | 0.00275 | 277.031 | 0.00502 | 346.947 | 0.00489 | 2,079.029 | 0.00556 | 166.484 |
| Midwest | 0.00358 | 296.767 | 0.00478 | 1,594.237 | 0.00557 | 1,297.946 | 0.00587 | 240.949 |
| South | 0.00375 | 464.132 | 0.00476 | 467.704 | 0.00457 | 1,148.825 | 0.00298 | 430.632 |
| West | 0.00006 | 1,168.044 | 0.00010 | 1,614.334 | 0.02108 | 1,902.219 | 0.00831 | 735.033 |
| Source of payment | | | | | | | | |
| Worker's compensation | 0.00515 | 294.690 | 0.00369 | 1,659.858 | 0.00773 | 2,510.311 | 0.01445 | 2,263.365 |
| Medicare | 0.00903 | 398.793 | 0.01151 | 1,891.797 | 0.01205 | 2,940.060 | 0.00654 | 702.706 |
| Medicaid | 0.00180 | 1,343.134 | 0.00144 | 9,741.000 | 0.00071 | 29,011.000 | 0.00263 | 2,720.177 |
| Other government | 0.05453 | 746.774 | 0.04779 | 4,107.199 | 0.03381 | 5,357.217 | 0.08664 | 606.397 |
| Private | 0.00131 | 1,438.292 | 0.00377 | 15,682.000 | 0.00093 | 22,065.000 | 0.00210 | 2,294.972 |
| Self | 0.00340 | 756.736 | 0.00437 | 1,981.113 | 0.00534 | 5,073.313 | 0.00713 | 1,071.297 |
| No charge/other | 0.02170 | 528.001 | 0.02299 | 1,257.851 | 0.01889 | 7,453.201 | 0.02185 | 921.546 |
| Not stated | 0.11386 | 3,464.679 | 0.07015 | 7,089.800 | 0.03570 | 14,944.000 | 0.18533 | 3,807.025 |
| Race | | | | | | | | |
| White | 0.00241 | 419.274 | 0.00260 | 482.914 | 0.00365 | 1,422.804 | 0.00314 | 404.253 |
| Black | 0.00740 | 363.901 | 0.00543 | 397.312 | 0.01826 | 1,176.619 | 0.00705 | 287.323 |
| All Other | 0.02271 | 182.649 | 0.02601 | 231.603 | 0.04065 | 263.783 | 0.02977 | 150.761 |
| Not Stated | 0.01496 | 301.892 | 0.01449 | 914.057 | 0.01615 | 1,443.019 | 0.01695 | 230.278 |

NOTE: The relative standard error (RSE) for an estimate (X), can be determined from the equation $RSE(X) = 100 \sqrt{a+b/X}$.

Relative standard errors for aggregate estimates—The constants for relative standard error curves for the National Hospital Discharge Survey aggregate statistics by statistic type are presented in table IV. The relative standard error [RSE (X)] of an estimate X, expressed as a percent of X may be estimated from the formula:

$$RSE(X) = 100 \sqrt{a + b/X}$$

where X, a, and b are as defined in table IV.

Relative standard errors for estimates of percents—The relative standard error for a percent 100p (0 < p < 1), expressed as a percent of p may be calculated directly using the formula:

$$RSE(p) = 100 \sqrt{b(1-p)/(pX)}$$

where 100p is the percent of interest, X is the base of the percent, and b is the parameter b in the formula for approximating the RSE(X). The values for b are given in table IV.

The approximation is valid if the relative standard error of the denominator is less than 5 percent or the relative standard errors of the numerator and denominator are both less than 10 percent (10,11).

RSE for average length of stay and other averages, ratios, or rates where the numerator is not a subclass of the denominator—If the denominator of the rate is a number produced by the U.S. Bureau of the Census for the total U.S. population or one or more of the age-sex-race groups of the total population, then the approximate relative standard error of the rate is equivalent to the relative standard error of the numerator that can be obtained from table IV.

If the numerator X and denominator Y are both estimated from the NHDS, then the relative standard error of the ratio X/Y, expressed as a percent of X/Y, is approximated by

$$RSE(X/Y) = 100 \sqrt{[RSE(X)]^2 + [RSE(Y)]^2}$$

This approximation is valid if the relative standard error of the denominator is less than 5 percent or the relative standard

errors of the numerator and denominator are both less than 10 percent (10,11).

Estimates of differences between two statistics—The relative standard errors shown in this appendix are not directly applicable to differences between two sample estimates. The standard error of a difference is approximately the square root of the sum of squares of each standard error considered separately. This formula represents the standard error quite accurately for the difference between separate and uncorrelated characteristics, although it is only a rough approximation in most other cases.

Tests of significance—In this report, the determination of statistical inference is based on the two-sided *t*-test with a critical value of 1.96 (0.05 level of significance). Terms such as “higher” and “less” that relate to differences are statistically significant. Terms such as “similar” or “no difference” mean that no statistically significant difference exists between the estimates being compared. A lack of comment on the difference between any two estimates does not mean that the difference was tested and found not significant.

Appendix II

Definitions of certain terms used in this report

Terms relating to hospitalization

Hospitals—All hospitals with an average length of stay for all patients of less than 30 days or hospitals whose specialty is general (medical or surgical) or children's general are eligible for inclusion in the National Hospital Discharge Survey except Federal hospitals and hospital units of institutions, and hospitals with less than six beds staffed for patients' use.

Patient—A person who is formally admitted to the inpatient service of a short-stay hospital for observation, care, diagnosis, or treatment. The terms "patient" and "inpatient" are used synonymously.

Newborn infant—A patient admitted by birth to a hospital.

Discharge—The formal release of a patient by a hospital; that is, the termination of a period of hospitalization by death or by disposition to place of residence, nursing home, or another hospital. The terms "discharges" and "patients discharged" are used synonymously.

Discharge rate—The ratio of the number of hospital discharges during a year to the number of persons in the civilian population on July 1 of that year.

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

Rate of days of care—The ratio of the number of days of care accumulated during a year to the number of persons in the civilian population on July 1 of that year.

Average length of stay—The number of days of care accumulated by patients discharged during the year divided by the number of these patients.

Terms relating to diagnoses

Diagnosis—A disease or injury (or factor that influences health status and contact with health services that is not itself a current illness or injury) listed on the medical record of a patient. (See "Medical coding and edit" in the "Data collection and processing" section of appendix I for further detail.)

Principal diagnosis—The condition established after study to be chiefly responsible for occasioning the admission of the

patient to the hospital for care.

First-listed diagnosis—The coded diagnosis identified as the principal diagnosis or listed first on the face sheet or discharge summary of the medical record if the principal diagnosis cannot be identified. The number of first-listed diagnoses is equivalent to the number of discharges.

All-listed diagnoses—The number of diagnoses on the face sheet of the medical record. In the NHDS a maximum of seven diagnoses are coded.

Terms relating to procedures

Discharges with procedures—The estimated number of patients discharged from non-Federal short-stay hospitals during the year who underwent at least one procedure during their hospitalization are termed "discharges with procedures."

Procedure—A surgical or nonsurgical operation, diagnostic procedure, or special treatment reported on the medical record of a patient. (See "Medical coding and edit" in the "Data collection and processing" section of appendix I for further details.) Beginning with the 1991 data, all ICD-9-CM procedure codes are used in the NHDS. Previously, selected codes, primarily codes for miscellaneous diagnostic and therapeutic codes, were not used.

All-listed procedures—The number of procedures on the face sheet of the medical record. In the NHDS a maximum of four procedures are coded.

Surgical operations—All procedures except those listed under "nonsurgical procedures" are listed as surgical operations.

Nonsurgical procedures—Procedures generally not considered to be surgery are listed as nonsurgical procedures. These include diagnostic endoscopy and radiography, radiotherapy and related therapies, physical medicine and rehabilitation, and other nonsurgical procedures. The following ICD-9-CM codes are for diagnostic and nonsurgical procedures:

01.18–01.19, 03.31, 03.39, 04.19, 05.19, 06.19, 07.19, 08.19, 09.19, 09.41–09.49, 10.29, 11.29, 12.29, 14.19, 15.09, 16.21, 16.29, 18.01, 18.11, 18.19, 20.31, 20.39, 21.00–21.02, 21.21, 21.29, 22.19, 24.19, 25.09, 26.19, 27.29, 28.19, 29.11, 29.19, 31.41–31.42, 31.48–31.49, 33.21–33.23, 33.29, 34.21–34.22, 34.28–34.29, 37.26–37.27, 37.29, 38.29, 39.95, 40.19, 41.38–41.39, 42.22–42.23, 42.29, 44.11–44.13, 44.19, 45.11–45.13, 45.19, 45.21–45.24, 45.28–45.29, 48.21–48.23, 48.29, 49.21, 49.29, 50.19, 51.10–51.11, 51.19, 52.19, 54.21,

54.29, 55.21–55.22, 55.29, 56.31, 56.35, 56.39, 57.31–57.32, 57.39, 57.94–57.95, 58.21–58.22, 58.29, 59.29, 60.18–60.19, 61.19, 62.19, 63.09, 64.19, 64.94, 65.19, 66.19, 67.19, 68.11, 68.19, 69.92, 70.21–70.22, 70.29, 71.19, 73.4, 73.51–73.59, 73.91–73.92, 75.31–75.32, 75.34–75.35, 75.94, 76.19, 78.80–78.89, 80.20–80.29, 81.98, 83.29, 84.41–84.43, 84.45–84.47, 85.19, 86.19, 86.92, 87–99.

Rate of procedures—The ratio of the number of procedures during a year to the number of persons in the civilian population on July 1 of that year determines the rate of procedures.

Demographic terms

Population—The United States resident population excluding members of the Armed Forces.

Age—Patient’s age at birthday prior to admission to the hospital.

Race—Patients are classified into three groups, “white,” “black,” and “all other,” with all other including all categories other than white or black. In addition, 25 percent of the patients had no race stated on the face sheet of the medical record.

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

| <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 |

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

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