

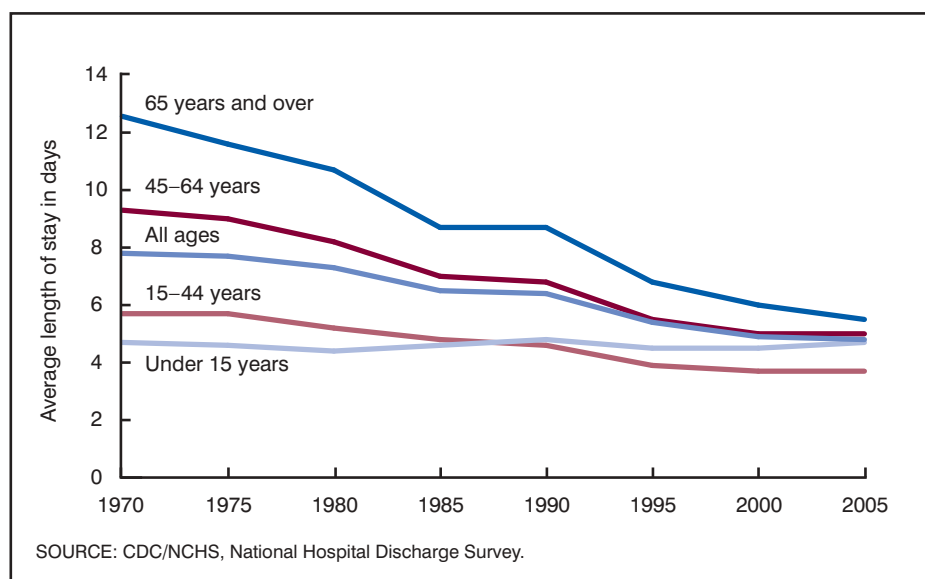
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2005 National Hospital Discharge Survey

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

The figure on this page presents data on the average length of hospital stay for all discharges and for four age groups over the past 35 years. The average length of stay for discharges of all ages has declined, and was significantly shorter in 2005 than it had been in 1970 (4.8 compared with 7.8 days). This was also true for discharges aged 15–44, 45–64, and 65 years and over. For 15–44 year olds the average stay in 2005 was 2 days shorter than in 1970; for 45–64 year olds, 4.3 days shorter; and for those aged 65 years and over their hospital stays in 2005 were less than one-half of what they had been in 1970 (5.5 compared with 12.6 days). The average lengths of stay for children under 15 years of age did not differ significantly between 1970 and 2005. During this period, a number of forces were exerting pressure on the lengths of hospital stay, including the shift in



Average length of stay in days by age: United States, selected years 1970–2005

Medicare reimbursement for hospitals from a cost-based to a prospective payment system in the early 1980s, greater development and coverage of post-acute care alternatives to hospitalization, growth in utilization review programs, increased enrollment in managed care plans, and other cost containment programs. Also important were advances in technology and drug therapy (including anesthesia), which assisted in the earlier diagnosis and treatment of acute conditions and safer and less invasive surgical interventions (1,2).

This report presents information about inpatient hospital utilization during 2005 as well as trend data for selected variables. Additional information about hospital utilization and other health topics is available from the National Center for Health Statistics (NCHS) website: <http://www.cdc.gov/nchs/>.

Acknowledgments

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Abstract

Objectives—This report presents national estimates of the use of nonfederal short-stay hospitals in the United States during 2005 and selected trend data. Numbers and rates of discharges, diagnoses, and procedures are shown by age and sex. Average lengths of stay are presented for all discharges and for selected diagnostic categories by age and by sex.

Methods—The estimates are based on data collected through the 2005 National Hospital Discharge Survey (NHDS). The survey has been conducted annually by NCHS since 1965. Diagnoses and procedures presented are coded using the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM).

Results—Trends in the utilization of nonfederal short-stay hospitals show that the overall average length of a hospital stay has declined significantly. In 2005, the average length of stay for all inpatients was 4.8 days compared with 7.8 days in 1970. Stays for discharges aged 15–44, 45–64 and 65 years and over also declined, but the average lengths of stay for those under 15 years of age were the same in 1970 and 2005.

In 2005, there were an estimated 34.7 million hospital discharges, excluding newborn infants. Persons aged 65 years and over comprised 38 percent of all inpatients. One notable trend for elderly people is that their rate of hospitalization for septicemia increased 47 percent from 2000 to 2005.

There were 45 million procedures performed on inpatients during 2005. Obstetrical procedures (6.9 million) comprised 25 percent of all procedures performed on females. Cesarean section (18 percent), repair of current obstetric laceration (18 percent), and artificial rupture of membranes (14 percent) accounted for one-half of all obstetrical procedures. Males had more cardiovascular procedures than females (4.1 million compared with 2.9 million), whereas females had more operations on the digestive system than males (3.2 million compared with 2.4 million).

Keywords: Inpatients • Diagnoses • Procedures • ICD-9-CM

Individual-year public-use NHDS data files are available for downloading from the website, and a multiyear public-use data file for trend analysis is available on CD-ROM. These and other products can also be obtained by contacting the NCHS Information Dissemination Staff at 1-800-232-4636 or 1-866-441-NCHS or by e-mail at NCHSquery@cdc.gov.

Introduction

This report presents data from the 2005 NHDS. The survey has been conducted continuously by NCHS since 1965. The NHDS is the principal source for national data on the characteristics of discharges from nonfederal short-stay hospitals. National estimates of hospital use derived from NHDS are published annually by NCHS. This report provides an overview of the 2005 data (Table 1), and includes the number and rate of discharges and average lengths of stay by age and by sex of patients for selected diagnoses (Tables 2–7). Average lengths of stay are also presented for selected diagnostic categories. Estimates of the number and rate of selected procedures performed on hospital inpatients are shown by age and by sex (Tables 8–11). Detailed data from the NHDS have been published annually in Series 13 of *Vital and Health Statistics* (3). Trend data from NHDS have been included in the annual *Health, United States* reports (4) and in a NCHS special report on health care utilization (5). NHDS data have been used in articles examining important topics of interest in public health and health services research (6–11), and for a variety of activities by governmental, scientific, academic, and commercial institutions. A list of NCHS and selected other publications using NHDS data is available from <http://www.cdc.gov/nchs/about/major/hdasd/nhds.htm>.

Estimates of the number of procedures shown in this report are for inpatients only. Data on ambulatory surgery are available from the National Survey of Ambulatory Surgery (NSAS), which was conducted by NCHS for 3 years beginning in 1994 and again in 2006. NSAS covers hospital-based and freestanding ambulatory surgery centers.

Data from 1994–1996 have been published (12), and 2006 data will be available in early 2008.

Information on ambulatory procedures is collected annually in two other NCHS surveys. The National Ambulatory Medical Care Survey obtains information on visits to physicians' offices (13). The National Hospital Ambulatory Medical Care Survey collects data on visits to hospital outpatient and emergency departments (14,15).

Highlights

Patient and hospital characteristics

- The average length of stay for all discharges has declined and was significantly shorter in 2005 than it was in 1970 (4.8 days compared with 7.8 days). Lengths of stay declined for discharges aged 15–44, 45–64, and 65 years and over. The average lengths of stay for children under age 15 years did not differ significantly between 1970 and 2005.
- In 2005, an estimated 34.7 million inpatients, excluding newborn infants, were discharged from nonfederal short-stay hospitals in the United States (Table 1).
- Persons aged 65 years and over comprised 38 percent of all inpatients, those aged 15–44 years comprised 31 percent, those aged 45–64 years comprised 24 percent, and children under age 15 years comprised 7 percent (Table 1).
- The discharge rate was 1,174.4 per 10,000 population: 959.0 for males and 1,382.2 for females (Table 6). Males had an average length of stay of 5.2 days compared with 4.5 days for females (Table 7).
- The discharge rate per 10,000 population ranged from 975.1 in the West to 1,317.6 in the Northeast region. The average length of stay ranged from 4.2 days in the Midwest to 5.4 days in the Northeast region (Table 1).
- Approximately 70 percent of inpatients under age 15 years and 15–44 years were hospitalized for less than 3 days, as were 55 percent

of those aged 45–64 years, and 45 percent of those aged 65 years and over (Figure 1).

Diagnoses

- Six diagnostic categories each accounted for a million or more discharges. These were heart disease (4.2 million), delivery (4.0 million), psychoses (1.7 million), pneumonia (1.4 million), malignant neoplasms (1.2 million), and fractures (1.0 million) (Table 2).
- The rate of hospitalization for septicemia for those aged 65 years and over significantly increased from 61.7 per 10,000 in 2000 to 90.8 per 10,000 population in 2005 (Figure 2).
- Of the 1 million discharges hospitalized for fractures, about one-half (526,000) were 65 years of age and over (Table 2). The elderly had 142.9 discharges per 10,000 population with a first-listed diagnosis of fracture, and the average length of stay for these discharges was 5.7 days (Tables 3 and 4).
- About one-fifth (4.0 million) of female discharges were for childbirth (Table 5).
- Overall, the average length of stay was 2.6 days for delivery, 4.5 days for heart disease, 5.3 days for

pneumonia, 5.3 days for fractures, 6.8 days for malignant neoplasms, and 7.6 days for psychoses (Table 4).

Procedures

- During 2005, 45 million procedures were performed on hospital inpatients (Table 8). Nationally, the rate of procedures was 1,522.7 per 10,000 population (Table 9). For males, this rate was 1,241.1 and for females it was 1,794.5 per 10,000 population (Table 11).
- Obstetrical procedures comprised one-quarter of all procedures performed on females. Cesarean section (18 percent), repair of current obstetric laceration (18 percent), and artificial rupture of membranes (14 percent) accounted for one-half of all obstetrical procedures performed (Figure 3).
- Over one-half of all procedures performed on females came from two ICD–9–CM chapters: miscellaneous diagnostic and therapeutic procedures and obstetrical procedures. (Figure 4).
- Almost 60 percent of all procedures performed on males came from two ICD–9–CM chapters: miscellaneous diagnostic and therapeutic procedures and cardiovascular procedures (Figure 4).

- Males had more cardiovascular procedures (4 million) than females (2.9 million) (Table 10). The rate of cardiovascular procedures also was significantly higher for males (280.2 per 10,000 population) than for females (194.8 per 10,000 population) (Table 11).
- Females had more operations on the digestive system than males (3.2 million compared with 2.4 million) (Table 10). Similarly, the rate of digestive procedures was significantly higher for females (210.7 per 10,000 population) than for males (166.5 per 10,000 population) (Table 11).

Methods

Data source

The National Hospital Discharge Survey (NHDS) collects data from a sample of inpatient records acquired from a national sample of hospitals. Because persons with multiple discharges during the year may be sampled more than once, estimates are for discharges, not persons. Only hospitals with an average length of stay of fewer than 30 days for all patients, and general hospitals and children's general hospitals are included in the survey. Federal, military, and Department of Veterans Affairs hospitals, as well as hospital units of institutions, such as prison hospitals, and hospitals with fewer than six beds staffed for patient use are excluded.

Prior to 1988, the NHDS was based on a two-stage design. The survey was redesigned in 1988 (16) and thereafter used a modified, three-stage design. Units selected at the first stage consist of either hospitals or geographic areas, such as counties, groups of counties, or metropolitan statistical areas in the 50 states and the District of Columbia. Within a sampled geographic area, hospitals are selected. Finally, at the last stage, systematic random sampling is used to select discharges within sampled hospitals. Until 2003, the hospital sampling frame for the redesigned survey was constructed from the SMG Hospital Market Database (17). Beginning in 2003, the sample frame was constructed from the products of

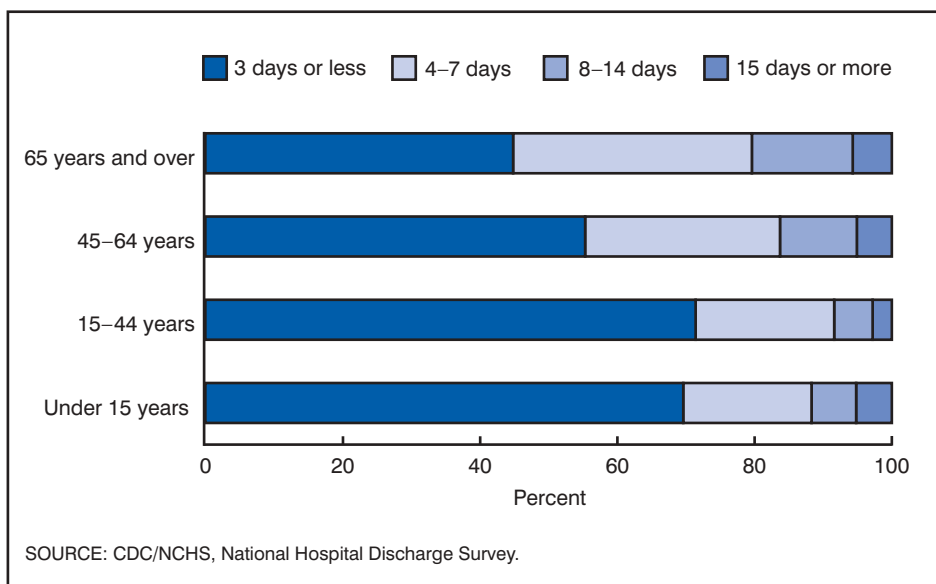


Figure 1. Percent distribution of hospital discharges by length of hospital stay, by age: United States, 2005

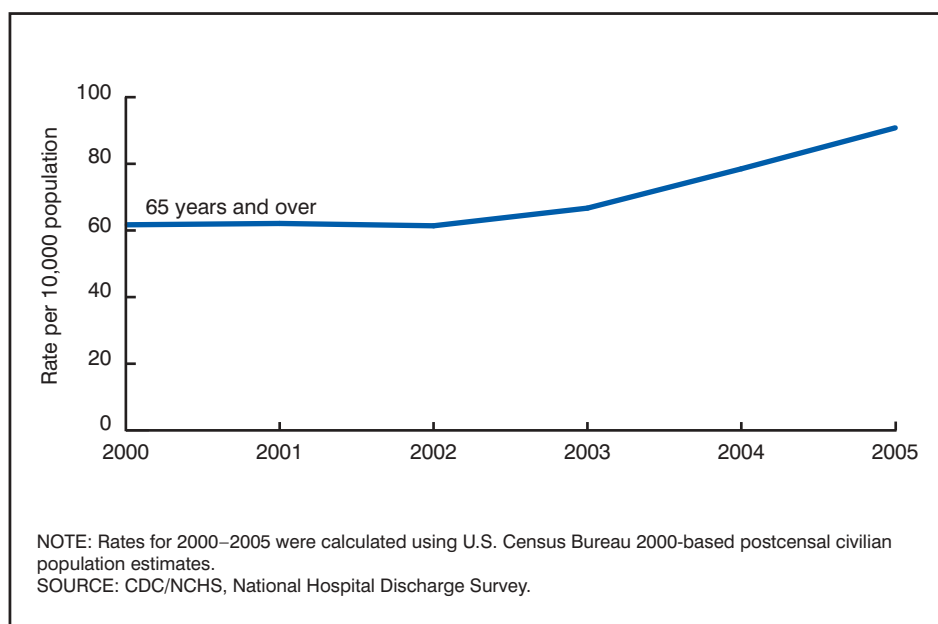


Figure 2. Rate of hospitalization for septicemia for patients 65 years and over: United States, 2000–2005

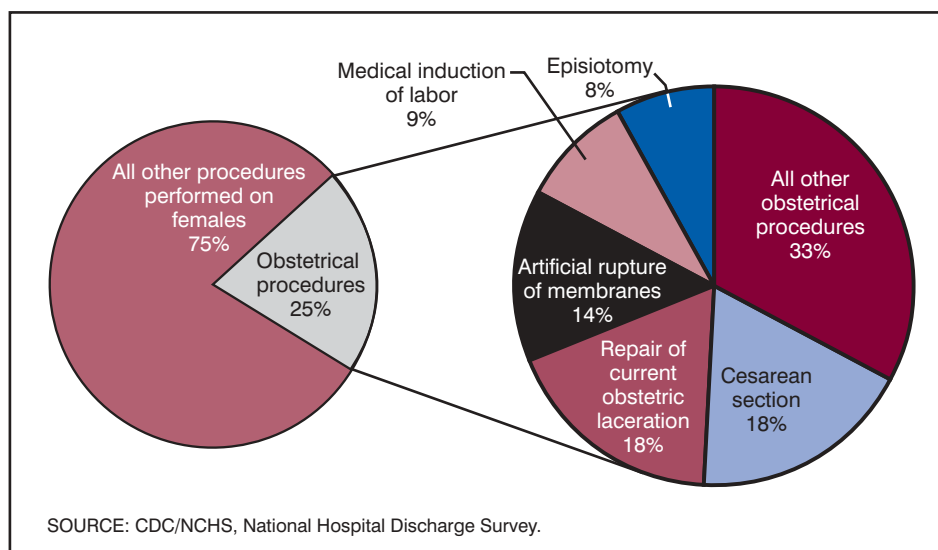


Figure 3. Percent distribution of procedures for hospitalized females: United States, 2005

Verispan, L.L.C., specifically their “Healthcare Market Index, updated May 15, 2003” and their “Hospital Market Profiling Solution, Second Quarter 2003” (18). These two products were formerly known as the “SMG Hospital Market Database.” The hospital sampling frame and sample are updated every 3 years (16).

For 2005, the sample consisted of 501 hospitals, of which 28 were found to be out of scope (ineligible) because they had gone out of business or

otherwise failed to meet the criteria for the NHDS universe. Of the 473 in-scope (eligible) hospitals, 444 responded to the survey. Data were collected for approximately 375,000 discharges from the 444 responding hospitals.

Two data collection procedures are used in the survey. One is a manual system in which sample selection and medical transcription from the hospital records to abstract forms are performed by the hospital’s staff or by staff of the U.S. Census Bureau on behalf of NCHS.

Completed forms are sent to NCHS for coding, editing, and estimation.

The other data collection procedure is an automated system in which NCHS purchases electronic medical record data from commercial organizations, state data systems, hospitals, or hospital associations. Records from these sources are systematically sampled by NCHS. In 2005, approximately 44 percent of respondent hospitals provided data through the automated system. A detailed report on the design and operation of the NHDS has been published (16).

The medical abstract form (Figure 5) and the automated data contain items that relate to the personal characteristics of the patient. These items include birth date (converted to age), sex, race, ethnicity, marital status, ZIP code, and expected sources of payment. Administrative items, such as admission and discharge dates, admission type and source, and discharge status, are also included. The medical information about patients includes up to seven diagnoses, as many as four surgical and nonsurgical operations and procedures, and dates of surgery. Medical data are coded according to the ICD–9–CM (19). In 2002, the ICD–9–CM Coordination and Maintenance Committee created Chapter 00, Procedures and Interventions Not Elsewhere Classified, as a way of handling space limitations in the existing hierarchical structure. Beginning with the 2003 NHDS, this new chapter is included in the miscellaneous diagnostic and therapeutic procedures and new technologies category shown in Tables 8–11.

For the manual data collection, an ongoing quality control program is conducted on the coding and entering of data from abstracts to electronic form. Approximately 10 percent of the abstracts are independently re-coded by an NHDS coder, with discrepancies resolved by a chief coder. The overall error rate for records manually coded for the 2005 data year was 0.3 percent for medical ICD–9–CM coding and keying and 0.2 percent for demographic coding and keying.

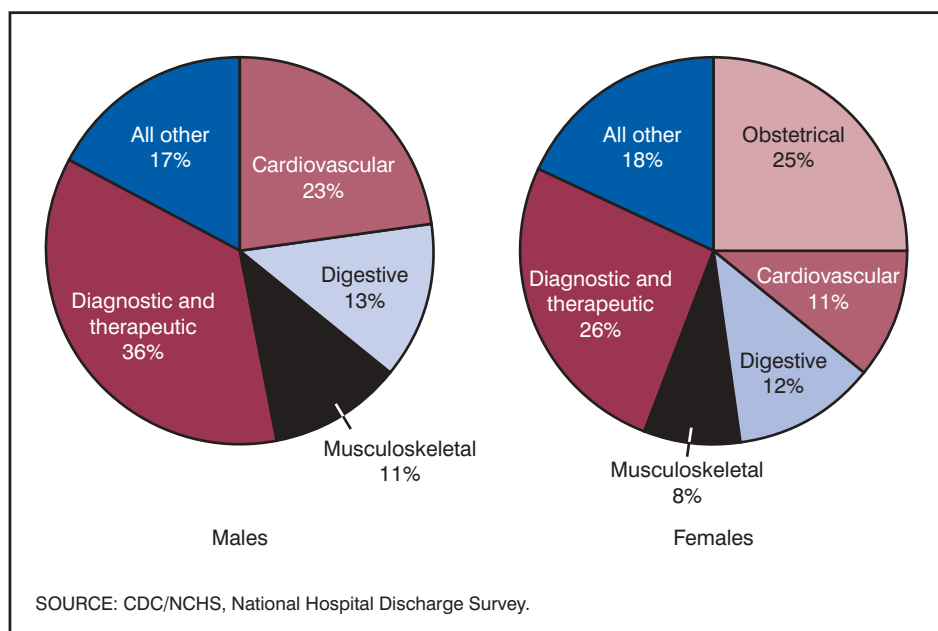


Figure 4. Percent distribution of all-listed procedures in major categories for hospitalized patients by sex: United States, 2005

diagnoses or procedures are shown. These specific categories were selected primarily because of the large number of discharges or because they are of special interest. Data for newborn infants, defined as patients admitted to a hospital by birth, are excluded from this report.

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

Estimates are rounded to the nearest 1,000. Therefore, figures within tables do not always add to the totals. Rates and average lengths of stay are calculated from unrounded figures and may not precisely agree with rates or average lengths of stay calculated from rounded data.

Rates are computed using adjustments made after the 2000 census (postcensal estimates) of the civilian population of the United States as of July 1, 2005. The data are from unpublished tabulations provided by the U.S. Census Bureau.

This is the fifth year that NHDS publications have used rates calculated from the 2000 census. The rates for NHDS reports on 1991–2000 data were computed using postcensal estimates of the civilian population based on the 1990 census. Population estimates for the civilian population from the 2000 census were not available until after the 2000 NHDS reports were prepared.

Estimation

Because of the complex multistage design of the NHDS, the survey data must be inflated or weighted in order to produce national estimates. The estimation procedure produces essentially unbiased national estimates, and has three basic components: inflation by reciprocals of the probabilities of sample selection, adjustment for nonresponse, and population weighting ratio adjustments. These three components of the final weight are described in more detail in another report (16).

The standard error (SE) is primarily a measure of sampling variability that occurs by chance because only a sample rather than the entire universe is surveyed. Estimates of the sampling variability for this report were calculated with SUDAAN software, which takes into account the complex sample design. A description of the software and the approach it uses has been published (20). The SEs of statistics presented in this report are included in each of the tables.

Use of tables

Discharges are reported by first-listed diagnosis, which is the one specified as the principal diagnosis on the face sheet or discharge summary of the medical record or, if a principal diagnosis is not specified, the first one listed on the face sheet or discharge summary of the medical record. It is usually the main cause of the hospitalization. The number of first-listed diagnoses is the same as the number of discharges.

Estimates of procedures include surgical or nonsurgical operations, diagnostic procedures, and special treatments reported on the medical record. Up to four procedures are coded for each discharge. All-listed procedures include all occurrences of the procedure coded regardless of the order on the medical record. Definitions of the terms used in this report have been published (3).

The diagnoses and procedures appear in separate tables of this report, presented by chapter of the ICD–9–CM. Within these chapters, subcategories of

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Notice - All information which would permit identification of an individual or 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. Public reporting burden of this collection of information is estimated to average 4 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer, 1600 Clifton Road, MS D-74, Atlanta, GA 30333, ATTN: PRA (0920-0212).

FORM **HDS-1**
9-9-2005

U.S. DEPARTMENT OF COMMERCE
Economics and Statistics Administration
U.S. CENSUS BUREAU
ACTING AS COLLECTING AGENT FOR
DEPARTMENT OF HEALTH AND HUMAN SERVICES
CENTERS FOR DISEASE CONTROL AND PREVENTION
NATIONAL CENTER FOR HEALTH STATISTICS

MEDICAL ABSTRACT - NATIONAL HOSPITAL DISCHARGE SURVEY**A. PATIENT IDENTIFICATION**

1. Hospital number		4. Date of admission	Month - Day - Year
2. HDS number		5. Date of discharge	Month - Day - Year
3. (Item deleted)		6. Residence ZIP Code	

B. PATIENT CHARACTERISTICS

7. Date of birth	Month - Day - Year	11. Race - Mark all that apply
8. Age - Complete only if date of birth not given	Units { 1 ☐ Years 2 ☐ Months 3 ☐ Days	1 ☐ White 6 ☐ Other - Specify
9. Sex - Mark (X) one	1 ☐ Male 2 ☐ Female 3 ☐ Not stated	3 ☐ Black or African American
10. Ethnicity - Mark (X) one	1 ☐ Hispanic or Latino 2 ☐ Not Hispanic or Latino 3 ☐ Not stated	4 ☐ American Indian or Alaska Native
		5 ☐ Asian
		5 ☐ Native Hawaiian or Other Pacific Islander 7 ☐ Not stated
		12. Marital status - Mark (X) one
		1 ☐ Married 3 ☐ Widowed 5 ☐ Separated
		2 ☐ Single 4 ☐ Divorced 6 ☐ Not stated

C. ADMINISTRATIVE INFORMATION

13. Type of Admission - Mark (X) one	1 ☐ Emergency 3 ☐ Elective 5 ☐ Items not available/unknown	16. Expected source(s) of payment	Principal	Other additional sources
2 ☐ Urgent 4 ☐ Newborn			Mark one only	Mark all that apply
14. Source of Admission - Mark (X) one	1 ☐ Physician referral 7 ☐ Emergency room	1. Worker's compensation	☐	☐
2 ☐ Clinical referral 8 ☐ Court/Law enforcement		2. Medicare	☐	☐
3 ☐ HMO referral 9 ☐ Other - Specify		3. Medicaid	☐	☐
4 ☐ Transfer from a hospital		4. Other government payments	☐	☐
5 ☐ Transfer from SNF		5. Blue Cross/Blue Shield	☐	☐
6 ☐ Transfer from other health facility 10 ☐ Item not available		6. HMO/PPO	☐	☐
15. Status/Disposition of patient - Mark (X) appropriate box(es)		7. Other private or commercial insurance	☐	☐
Status Disposition		8. Self pay	☐	☐
1 ☐ Alive → a. ☐ Routine discharge/discharged home		9. No charge	☐	☐
b. ☐ Left against medical advice		10. Other - Specify		
c. ☐ Discharged, transferred to another short-term hospital				
d. ☐ Discharged, transferred to long-term care institution				
e. ☐ Other disposition/not stated				
2 ☐ Died		☐ No source of payment indicated	☐	☐
3 ☐ Status not stated				

(Over)

Figure 5. Medical Abstract—National Hospital Discharge Survey

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Table 1. Number, rate, and average length of stay for discharges from short-stay hospitals by age, region, and sex: United States, 2005

[Discharges of inpatients from nonfederal hospitals. Excludes newborn infants]

Selected characteristic	Both sexes		Male		Female	
	Number	SE ¹	Number	SE ¹	Number	SE ¹
Number in thousands						
Total	34,667	1,266	13,902	541	20,766	752
Age						
Under 15 years	2,431	318	1,346	177	1,085	142
15–44 years	10,659	447	2,864	154	7,795	332
45–64 years	8,349	315	4,076	155	4,273	169
65 years and over	13,228	547	5,616	246	7,613	310
Region						
Northeast	7,192	552	3,018	249	4,174	313
Midwest	7,948	855	3,160	354	4,788	508
South	12,907	632	5,054	245	7,852	400
West	6,621	393	2,670	208	3,951	212
Rate per 10,000 population ²						
Total	1,174.4	42.9	959.0	37.3	1,382.2	50.0
Age						
Under 15 years	400.5	52.4	433.3	57.0	366.1	47.9
15–44 years	853.3	35.8	454.6	24.4	1,259.1	53.6
45–64 years	1,147.0	43.2	1,148.8	43.7	1,145.3	45.2
65 years and over	3,595.6	148.7	3,643.5	159.8	3,561.1	144.9
Region						
Northeast	1,317.6	101.1	1,139.7	93.9	1,485.2	111.4
Midwest	1,206.2	129.8	976.0	109.3	1,428.7	151.5
South	1,208.3	59.2	966.9	46.8	1,439.6	73.3
West	975.1	57.9	789.2	61.6	1,159.7	62.3
Average length of stay in days (ALOS)						
Total	4.8	0.1	5.2	0.1	4.5	0.1
Age						
Under 15 years	4.7	0.2	4.8	0.3	4.5	0.2
15–44 years	3.7	0.1	4.9	0.1	3.3	0.1
45–64 years	5.0	0.1	5.0	0.1	4.9	0.1
65 years and over	5.5	0.1	5.6	0.1	5.5	0.1
Region						
Northeast	5.4	0.1	5.8	0.2	5.1	0.1
Midwest	4.2	0.1	4.5	0.1	4.1	0.1
South	4.9	0.1	5.3	0.1	4.6	0.1
West	4.6	0.2	5.2	0.2	4.3	0.2

¹SE is standard error.²Rates were calculated using U.S. Census Bureau 2000-based postcensal estimates of the civilian population as of July 1, 2005.

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

³Excludes fractures coded as 733.1, pathologic fracture.

Table 3. Rate of discharges from short-stay hospitals by age and first-listed diagnosis: United States, 2005[Discharges of inpatients from nonfederal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM)]

Category of first-listed diagnosis and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹
Rate per 10,000 population ²										
All conditions	1,174.4	42.9	400.5	52.4	853.3	35.8	1,147.0	43.2	3,595.6	148.7
Infectious and parasitic diseases 001-139	35.4	1.7	23.4	3.5	14.1	0.8	33.6	1.9	131.2	8.2
Septicemia 038	16.6	1.1	1.0	0.2	3.0	0.4	15.4	1.3	90.8	6.4
Neoplasms 140-239	54.7	2.6	4.5	1.1	21.6	1.3	86.0	4.2	188.1	10.6
Malignant neoplasms 140-208,230-234	40.5	2.0	3.3	0.9	9.5	0.8	61.7	3.0	165.3	9.6
Malignant neoplasm of large intestine and rectum 153-154,197.5	5.0	0.3	*	*	0.4	0.1	6.5	0.7	26.1	2.0
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	5.2	0.3	*	*	0.6	0.1	7.4	0.7	25.2	1.8
Benign neoplasms 210-229	12.5	0.6	0.7	0.2	11.3	0.7	22.5	1.5	16.0	1.4
Benign neoplasm of uterus 218-219	6.8	0.4	*	*	8.3	0.6	13.2	1.0	*	*
Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279	57.9	2.5	33.5	4.5	28.8	1.5	67.8	3.1	177.1	8.8
Diabetes mellitus 250	19.8	1.0	4.5	1.0	12.6	0.9	28.7	1.8	52.0	3.4
Volume depletion 276.5	16.9	0.9	24.3	2.9	3.9	0.4	10.4	1.0	61.8	3.9
Diseases of the blood and blood-forming organs 280-289	15.4	0.8	9.4	1.7	9.2	0.7	13.7	1.1	49.7	3.1
Anemias 280-285	11.0	0.6	4.6	0.8	7.5	0.6	9.2	0.9	37.2	2.8
Mental disorders 290-319	81.2	12.4	20.4	5.2	108.0	18.6	93.5	12.9	66.9	5.9
Psychoses 290-299	59.2	9.5	*	*	77.6	14.1	67.9	9.8	56.7	5.5
Schizophrenic disorders 295	11.9	2.1	*	*	15.7	3.1	17.8	2.9	6.3	1.0
Major depressive disorder 296.2-296.3	15.9	2.7	*	*	21.1	3.8	18.8	3.1	13.6	2.0
Diseases of the nervous system and sense organs 320-389	19.1	1.2	13.9	2.9	11.0	0.9	17.1	1.3	59.4	4.1
Diseases of the circulatory system 390-459	208.7	8.6	4.7	0.9	34.9	1.6	249.1	10.6	1,055.1	47.2
Essential hypertension 401	10.2	0.5	*	*	3.3	0.3	18.9	1.2	33.0	2.3
Heart disease 391-392.0,393-398,402,404,410-416,420-429	143.3	6.4	2.5	0.5	21.3	1.1	170.6	7.9	735.8	36.1
Acute myocardial infarction 410	23.1	1.4	*	*	3.1	0.3	29.5	1.9	116.8	8.5
Coronary atherosclerosis 414.0	33.2	1.9	*	*	3.2	0.3	54.0	3.7	148.4	8.7
Other ischemic heart disease 411-413,414.1-414.9	5.6	0.4	*	*	1.8	0.4	9.4	0.7	20.3	1.9
Cardiac dysrhythmias 427	26.2	1.3	0.8	0.2	3.9	0.4	25.0	1.5	146.1	8.1
Congestive heart failure 428.0,428.2-428.4	36.6	1.8	*	*	3.3	0.3	32.3	1.6	217.4	12.6
Cerebrovascular disease 430-438	30.3	1.3	*	*	3.8	0.3	30.4	1.6	169.8	7.7
Diseases of the respiratory system 460-519	126.9	5.2	103.7	13.2	29.6	1.5	113.4	5.2	522.3	25.2
Acute bronchitis and bronchiolitis 466	7.8	0.8	25.6	3.4	1.1	0.3	2.5	0.5	11.7	1.3
Pneumonia 480-486	46.3	2.0	31.9	4.4	8.8	0.6	34.5	1.8	221.3	11.2
Chronic bronchitis 491	19.3	1.1	*	*	1.3	0.2	22.8	1.6	104.9	7.1
Asthma 493	16.6	1.0	26.2	3.7	7.8	0.7	16.4	1.1	30.5	3.1
Diseases of the digestive system 520-579	115.9	4.6	35.6	5.1	66.6	3.1	144.6	5.9	359.2	17.4
Appendicitis 540-543	10.9	0.7	12.9	1.7	13.0	1.0	8.2	0.6	5.8	0.6
Noninfectious enteritis and colitis 555-558	10.8	0.7	6.7	1.2	7.5	0.7	10.3	0.9	29.4	2.4
Intestinal obstruction 560	10.3	0.5	1.7	0.4	3.2	0.3	12.2	1.1	44.6	2.5
Diverticula of intestine 562	10.4	0.6	*	*	3.0	0.3	14.5	1.0	44.6	2.8
Cholelithiasis 574	11.0	0.5	*	*	8.5	0.6	13.0	0.8	33.7	2.4
Acute pancreatitis 577.0	8.0	0.5	*	*	6.6	0.6	12.1	1.0	17.2	1.5
Diseases of the genitourinary system 580-629	67.2	2.8	15.0	2.3	42.9	2.3	68.1	3.7	234.0	11.7
Calculus of kidney and ureter 592	6.2	0.5	*	*	6.0	0.7	9.4	0.8	10.1	1.1
Urinary tract infection 599.0	16.3	1.2	4.6	0.8	3.4	0.4	9.1	1.2	93.5	7.1
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	18.1	1.2	*	*	42.7	2.8	*	*	...	...
Diseases of the skin and subcutaneous tissue 680-709	25.4	1.9	*	*	15.1	1.2	30.9	1.8	61.5	4.3
Cellulitis and abscess 681-682	18.7	0.9	10.3	1.8	11.5	0.7	24.1	1.4	45.9	3.6
Diseases of the musculoskeletal system and connective tissue 710-739	65.9	3.8	6.5	1.2	24.3	1.5	94.2	5.7	248.9	16.2
Osteoarthritis and allied disorders 715	25.8	2.1	*	*	1.3	0.2	36.5	3.2	129.8	11.3
Intervertebral disc disorders 722	10.6	0.7	*	*	8.9	0.8	19.2	1.5	16.7	1.6
Congenital anomalies 740-759	6.2	0.9	21.3	4.1	2.2	0.3	2.4	0.4	2.1	0.4
Certain conditions originating in the perinatal period 760-779	6.8	1.0	33.1	4.8	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions 780-799	6.7	0.6	7.7	1.3	5.0	0.5	7.0	0.8	10.4	1.8
Injury and poisoning 800-999	95.7	4.3	36.8	5.5	64.6	3.4	96.8	5.0	296.5	14.6
Fractures, all sites ⁴ 800-829	34.2	1.8	11.0	1.6	18.8	1.4	24.9	1.7	142.9	7.9
Fracture of neck of femur ⁴ 820	10.2	0.7	*	*	0.6	0.1	3.8	0.5	72.3	5.1
Poisonings 960-989	8.8	0.5	2.4	0.5	12.4	0.8	9.1	0.7	6.2	0.6
Certain complications of surgical and medical care 996-999	29.2	1.5	7.0	1.2	14.0	0.8	41.6	2.7	93.3	5.7
Supplementary classifications V01-V84	167.1	7.3	12.6	2.4	332.9	15.5	28.8	2.0	132.9	16.5
Females with deliveries V27	136.8	6.5	*1.0	*0.3	322.2	15.2	*1.0	*0.2	...	...

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error of rate.²Rates were calculated using U.S. Census Bureau 2000-based postcensal estimates of the civilian population as July 1, 2005.³First-listed diagnosis for females with deliveries is coded V27, shown under Supplementary classifications.⁴Excludes fractures coded as 733.1, pathological fracture.

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

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

Table 5. Number of discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 2005[Discharges of inpatients from nonfederal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM)]

Category of first-listed diagnosis and ICD-9-CM code	Both sexes		Male		Female	
	Number	SE ¹	Number	SE ¹	Number	SE ¹
	Number in thousands					
All conditions	34,667	1,266	13,902	541	20,766	752
Infectious and parasitic diseases 001-139	1,045	49	498	25	547	28
Septicemia038	490	31	240	18	249	17
Neoplasms 140-239	1,615	78	654	40	961	43
Malignant neoplasms 140-208,230-234	1,196	60	579	36	617	29
Malignant neoplasm of large intestine and rectum 153-154,197.5	148	9	71	5	77	6
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	154	9	79	6	75	5
Benign neoplasms 210-229	368	19	50	5	318	17
Benign neoplasm of uterus 218-219	202	12	...	...	202	12
Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279	1,708	72	713	34	995	44
Diabetes mellitus250	585	31	283	15	302	20
Volume depletion 276.5	500	26	206	13	294	16
Diseases of the blood and blood-forming organs 280-289	455	23	174	11	281	15
Anemias 280-285	325	18	120	10	205	12
Mental disorders 290-319	2,398	365	1,200	177	1,198	192
Psychoses 290-299	1,747	279	832	126	915	156
Schizophrenic disorders295	351	62	193	37	158	26
Major depressive disorder 296.2-296.3	470	80	179	29	291	54
Diseases of the nervous system and sense organs 320-389	565	35	238	17	327	21
Diseases of the circulatory system 390-459	6,159	254	3,136	133	3,023	131
Essential hypertension401	301	15	126	8	175	9
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4,230	190	2,222	102	2,008	97
Acute myocardial infarction410	683	43	406	25	277	20
Coronary atherosclerosis 414.0	980	57	629	38	351	22
Other ischemic heart disease 411-413,414.1-414.9	165	12	82	7	83	8
Cardiac dysrhythmias427	773	38	365	19	408	22
Congestive heart failure 428.0,428.2-428.4	1,079	53	491	24	588	37
Cerebrovascular disease 430-438	895	38	418	21	477	22
Diseases of the respiratory system 460-519	3,746	154	1,764	79	1,983	81
Acute bronchitis and bronchiolitis466	230	24	117	13	113	12
Pneumonia 480-486	1,368	60	651	32	717	34
Chronic bronchitis491	569	33	261	19	308	19
Asthma493	489	29	192	18	296	17
Diseases of the digestive system 520-579	3,422	137	1,546	61	1,876	82
Appendicitis 540-543	321	20	179	11	142	11
Noninfectious enteritis and colitis 555-558	318	20	119	10	199	13
Intestinal obstruction560	304	15	134	8	169	10
Diverticula of intestine562	307	17	126	8	181	11
Cholelithiasis574	325	16	116	8	210	12
Acute pancreatitis 577.0	237	15	129	10	108	8
Diseases of the genitourinary system 580-629	1,983	84	642	31	1,341	60
Calculus of kidney and ureter592	184	15	94	8	90	9
Urinary tract infection 599.0	481	34	157	14	324	23
Complications of pregnancy, childbirth, and the puerperium ² 630-677	535	35	...	...	535	35
Diseases of the skin and subcutaneous tissue 680-709	751	55	400	33	351	24
Cellulitis and abscess 681-682	551	27	300	17	250	14
Diseases of the musculoskeletal system and connective tissue 710-739	1,945	111	831	47	1,114	66
Osteoarthritis and allied disorders715	761	63	292	25	469	41
Intervertebral disc disorders722	313	21	153	11	159	12
Congenital anomalies 740-759	182	27	99	16	83	12
Certain conditions originating in the perinatal period 760-779	201	29	120	19	81	12
Symptoms, signs, and ill-defined conditions 780-799	198	17	89	8	109	11
Injury and poisoning 800-999	2,826	127	1,402	69	1,424	66
Fractures, all sites ³ 800-829	1,009	52	435	24	574	33
Fracture of neck of femur ³820	302	21	86	8	216	16
Poisonings 960-989	258	14	122	8	137	8
Certain complications of surgical and medical care 996-999	863	44	412	23	451	25
Supplementary classifications V01-V84	4,933	215	396	34	4,538	204
Females with deliveries V27	4,038	190	...	...	4,038	190

... Category not applicable.

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

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

... Category not applicable.
¹SE is standard error of rate.
²Rates were calculated using U.S. Census Bureau 2000-based postcensal estimates of the civilian population as of July 1, 2005.
³First-listed diagnosis for females with deliveries is coded V27, shown under Supplementary classifications.
⁴Excludes fractures coded as 733.1, pathologic fracture.

Table 7. Average length of stay for discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 2005[Discharges of inpatients from nonfederal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM)]

Category of first-listed diagnosis and ICD-9-CM code	Both sexes		Male		Female	
	ALOS ¹	SE ²	ALOS ¹	SE ²	ALOS ¹	SE ²
All conditions	4.8	0.1	5.2	0.1	4.5	0.1
Infectious and parasitic diseases 001-139	6.6	0.2	6.8	0.2	6.5	0.2
Septicemia 038	8.2	0.2	8.3	0.3	8.2	0.3
Neoplasms 140-239	6.0	0.1	6.7	0.2	5.5	0.2
Malignant neoplasms 140-208,230-234	6.8	0.1	6.9	0.2	6.6	0.2
Malignant neoplasm of large intestine and rectum 153-154,197.5	8.3	0.3	8.5	0.5	8.0	0.3
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	7.4	0.4	7.4	0.4	7.5	0.7
Benign neoplasms 210-229	3.5	0.1	5.0	0.3	3.2	0.2
Benign neoplasm of uterus 218-219	2.9	0.2	..	..	2.9	0.2
Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279	4.0	0.1	4.2	0.1	3.8	0.1
Diabetes mellitus 250	4.7	0.1	4.9	0.2	4.6	0.2
Volume depletion 276.5	3.4	0.1	3.2	0.1	3.5	0.2
Diseases of the blood and blood-forming organs 280-289	4.4	0.2	4.1	0.2	4.6	0.3
Anemias 280-285	4.4	0.3	4.1	0.2	4.6	0.4
Mental disorders 290-319	6.9	0.3	7.0	0.3	6.9	0.3
Psychoses 290-299	7.6	0.3	7.7	0.3	7.5	0.3
Schizophrenic disorders 295	10.6	0.5	10.5	0.5	10.7	0.6
Major depressive disorder 296.2-296.3	6.9	0.3	7.2	0.4	6.7	0.3
Diseases of the nervous system and sense organs 320-389	5.2	0.2	5.2	0.3	5.2	0.3
Diseases of the circulatory system 390-459	4.6	0.1	4.5	0.1	4.7	0.1
Essential hypertension 401	2.2	0.1	2.2	0.1	2.3	0.1
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4.5	0.1	4.3	0.1	4.7	0.1
Acute myocardial infarction 410	5.5	0.2	5.6	0.2	5.5	0.2
Coronary atherosclerosis 414.0	3.5	0.2	3.3	0.1	3.8	0.5
Other ischemic heart disease 411-413,414.1-414.9	2.4	0.1	2.5	0.2	2.3	0.1
Cardiac dysrhythmias 427	3.4	0.1	3.1	0.1	3.6	0.1
Congestive heart failure 428.0,428.2-428.4	5.1	0.1	4.9	0.1	5.2	0.1
Cerebrovascular disease 430-438	5.2	0.2	5.5	0.3	5.0	0.2
Diseases of the respiratory system 460-519	5.2	0.1	5.2	0.1	5.2	0.1
Acute bronchitis and bronchiolitis 466	3.2	0.1	3.1	0.2	3.3	0.2
Pneumonia 480-486	5.3	0.1	5.2	0.2	5.3	0.1
Chronic bronchitis 491	5.0	0.3	5.1	0.4	4.9	0.1
Asthma 493	3.3	0.1	2.8	0.1	3.7	0.1
Diseases of the digestive system 520-579	4.7	0.1	4.7	0.1	4.8	0.1
Appendicitis 540-543	3.1	0.1	3.2	0.2	2.9	0.2
Noninfectious enteritis and colitis 555-558	4.6	0.3	4.2	0.2	4.8	0.4
Intestinal obstruction 560	6.4	0.3	6.4	0.5	6.5	0.3
Diverticula of intestine 562	5.3	0.2	5.1	0.3	5.3	0.2
Cholelithiasis 574	4.2	0.3	5.1	0.7	3.8	0.2
Acute pancreatitis 577.0	5.1	0.2	4.6	0.2	5.6	0.5
Diseases of the genitourinary system 580-629	3.8	0.1	4.3	0.1	3.6	0.1
Calculus of kidney and ureter 592	2.3	0.1	1.9	0.1	2.7	0.2
Urinary tract infection 599.0	4.5	0.1	4.9	0.2	4.4	0.1
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	2.9	0.1	..	..	2.9	0.1
Diseases of the skin and subcutaneous tissue 680-709	5.0	0.3	4.8	0.3	5.1	0.3
Cellulitis and abscess 681-682	4.7	0.1	4.5	0.2	4.9	0.2
Diseases of the musculoskeletal system and connective tissue 710-739	3.9	0.1	3.8	0.1	4.0	0.1
Osteoarthritis and allied disorders 715	3.7	0.1	3.6	0.1	3.8	0.1
Intervertebral disc disorders 722	2.9	0.1	2.7	0.1	3.1	0.1
Congenital anomalies 740-759	6.8	0.7	6.5	0.8	7.1	0.9
Certain conditions originating in the perinatal period 760-779	10.5	1.1	10.1	1.1	11.0	1.4
Symptoms, signs, and ill-defined conditions 780-799	2.8	0.2	2.7	0.3	2.9	0.3
Injury and poisoning 800-999	5.2	0.1	5.3	0.2	5.2	0.1
Fractures, all sites ⁴ 800-829	5.3	0.2	5.4	0.3	5.2	0.1
Fracture of neck of femur ⁴ 820	6.3	0.2	6.8	0.3	6.1	0.2
Poisonings 960-989	3.0	0.2	3.3	0.3	2.7	0.1
Certain complications of surgical and medical care 996-999	6.0	0.1	6.0	0.2	6.1	0.2
Supplementary classifications V01-V84	3.7	0.1	8.2	0.3	3.3	0.1
Females with deliveries V27	2.6	0.0	..	..	2.6	0.0

.. Category not applicable.

0.0 Quantity more than zero, but less than 0.05.

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

Table 8. Number of all-listed procedures for discharges from short-stay hospitals by procedure category and age: United States, 2005[Discharges of inpatients from nonfederal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	Number	SE ¹	Number	SE ¹	Number	SE ¹	Number	SE ¹	Number	SE ¹
Number in thousands										
All procedures	44,950	2,009	2,203	356	14,744	705	11,910	560	16,093	758
Operations on the nervous system 01-05	1,227	96	202	39	358	43	310	23	357	33
Spinal tap 03.31	343	33	131	24	86	7	66	8	60	9
Operations on the endocrine system 06-07	104	8	*2	*1	27	3	47	5	27	3
Operations on the eye 08-16	74	8	14	3	20	3	16	3	25	5
Operations on the ear 18-20	42	7	22	5	9	3	*4	*1	*5	*2
Operations on the nose, mouth, and pharynx 21-29	302	25	64	12	91	9	72	11	75	9
Operations on the respiratory system 30-34	1,118	54	64	14	168	11	370	26	516	28
Bronchoscopy with or without biopsy 33.21-33.24,33.27	284	18	18	5	36	4	96	7	134	11
Operations on the cardiovascular system 35-39	6,989	354	200	39	655	35	2,524	135	3,609	193
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	645	48	*	*	34	3	285	22	326	26
Insertion of coronary artery stent(s) 36.06-36.07	620	47	*	*	34	3	275	23	311	26
Coronary artery bypass graft ² 36.1	466	41	*	*	15	3	187	22	264	25
Cardiac catheterization 37.21-37.23	1,209	77	9	2	86	7	509	34	605	43
Insertion, replacement, removal, and revision of pacemaker leads to device 37.7-37.8	384	28	*	*	*9	*2	44	6	325	25
Hemodialysis 39.95	593	38	*	*	76	5	245	21	270	18
Operations on the hemic and lymphatic system 40-41	343	25	17	4	57	6	137	12	131	11
Operations on the digestive system 42-54	5,580	243	246	46	1,244	63	1,716	76	2,373	116
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	1,064	52	19	5	155	10	317	18	573	31
Endoscopy of large intestine with or without biopsy 45.21-45.25	556	29	7	2	77	7	144	10	328	18
Partial excision of large intestine 45.7	266	16	*	*	32	4	89	8	142	10
Appendectomy, excluding incidental 47.0	341	21	80	11	170	13	65	5	27	3
Cholecystectomy 51.2	398	20	*	*	133	9	128	7	136	10
Lysis of peritoneal adhesions 54.5	348	20	6	2	133	12	114	8	95	7
Operations on the urinary system 55-59	999	59	36	7	236	18	314	20	413	29
Cystoscopy with or without biopsy 57.31-57.33	142	10	*	*	28	3	44	4	65	5
Operations on the male genital organs 60-64	233	15	23	5	15	3	64	5	131	12
Prostatectomy 60.2-60.6	155	12	*	*	*	*	51	5	102	9
Operations on the female genital organs 65-71	1,967	106	10	3	1,145	70	613	35	200	17
Oophorectomy and salpingo-oophorectomy 65.3-65.6	434	26	*	*	183	14	204	12	47	5
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	346	25	*	*	344	25	*	*	*	*
Hysterectomy 68.3-68.7,68.9	575	32	*	*	289	20	240	14	45	4
Obstetrical procedures 72-75	6,858	348	*11	*3	6,838	349	*	*	...	...
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	537	36	*	*	535	36	*	*	...	...
Artificial rupture of membranes 73.0	928	65	*	*	926	65	*	*	...	...
Medical induction of labor 73.4	616	41	*	*	614	41	*	*	...	...
Cesarean section 74.0-74.2,74.4,74.99	1,262	64	*	*	1,258	64	*	*	...	...
Repair of current obstetric laceration 75.5-75.6	1,259	66	*	*	1,254	67	*	*	...	...
Operations on the musculoskeletal system 76-84	4,139	226	168	27	893	51	1,444	91	1,634	102
Partial excision of bone 76.2-76.3,77.6-77.8	178	12	10	2	46	4	71	6	51	6
Reduction of fracture 76.7,79.0-79.3	621	35	44	6	185	13	138	12	254	16
Open reduction of fracture with internal fixation 79.3	424	25	17	2	121	9	102	10	184	12
Excision or destruction of intervertebral disc 80.5	294	20	*	*	101	9	148	11	44	4
Total hip replacement 81.51	235	22	*	*	15	3	80	9	139	13
Total knee replacement 81.54	534	47	*	*	8	1	194	17	331	31
Operations on the integumentary system 85-86	1,538	115	*	*	476	44	478	27	417	23
Debridement of wound, infection, or burn 86.22,86.28	358	34	*	*	101	14	113	11	119	8
Miscellaneous diagnostic and therapeutic procedures and new technologies ³ 87-99.00	13,437	845	954	156	2,512	218	3,792	247	6,179	360
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	811	128	38	10	191	39	229	38	353	55
Arteriography and angiocardiology using contrast material 88.4-88.5	1,986	132	14	4	180	14	794	56	997	72
Diagnostic ultrasound 88.7	884	103	*	*	150	20	249	29	441	58
Physical therapy procedures 93.1-93.3	406	62	10	2	39	6	81	11	277	51
Respiratory therapy 93.9,96.7	1,160	82	188	38	173	16	288	21	512	36
Insertion of endotracheal tube 96.04	506	25	40	8	81	6	136	8	249	16
Transfusion of blood and blood components 99.0	1,902	112	67	16	220	16	472	30	1,144	76
Injection or infusion of cancer chemotherapeutic substance 99.25	209	15	42	10	39	4	73	6	55	7

* Figure does not meet standard of reliability or precision. . . . Category not applicable.

¹SE is standard error.²The number of discharges with a coronary artery bypass graft was 261,000.³Chapter 00, Procedures and interventions not elsewhere classified, is included in this category. See Data source.

Table 9. Rate of all-listed procedures for discharges from short-stay hospitals by procedure category and age: United States, 2005[Discharges of inpatients from nonfederal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM)]

Procedure category and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹
Rate per 10,000 population ²										
All procedures	1,522.7	68.1	362.9	58.7	1,180.4	56.5	1,636.2	76.9	4,374.4	205.9
Operations on the nervous system 01-05	41.6	3.2	33.3	6.4	28.7	3.4	42.6	3.1	97.2	9.0
Spinal tap 03.31	11.6	1.1	21.6	4.0	6.9	0.5	9.1	1.1	16.3	2.4
Operations on the endocrine system 06-07	3.5	0.3	*0.4	*0.1	2.2	0.3	6.4	0.7	7.5	0.9
Operations on the eye 08-16	2.5	0.3	2.2	0.5	1.6	0.2	2.2	0.5	6.8	1.3
Operations on the ear 18-20	1.4	0.2	3.7	0.9	0.7	0.2	*0.6	*0.2	*1.5	*0.4
Operations on the nose, mouth, and pharynx 21-29	10.2	0.8	10.5	1.9	7.3	0.7	9.9	1.5	20.4	2.6
Operations on the respiratory system 30-34	37.9	1.8	10.5	2.4	13.5	0.9	50.9	3.6	140.3	7.7
Bronchoscopy with or without biopsy 33.21-33.24,33.27	9.6	0.6	3.0	0.9	2.9	0.3	13.2	1.0	36.5	3.1
Operations on the cardiovascular system 35-39	236.8	12.0	33.0	6.5	52.5	2.8	346.8	18.6	980.9	52.5
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	21.9	1.6	*	*	2.7	0.3	39.1	3.1	88.6	7.0
Insertion of coronary artery stent(s) 36.06-36.07	21.0	1.6	*	*	2.8	0.3	37.7	3.2	84.5	6.9
Coronary artery bypass graft ³ 36.1	15.8	1.4	*	*	1.2	0.2	25.6	3.0	71.8	6.7
Cardiac catheterization 37.21-37.23	41.0	2.6	1.5	0.4	6.9	0.5	69.9	4.6	164.4	11.6
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	13.0	1.0	*	*	*0.7	*0.2	6.1	0.8	88.4	6.8
Hemodialysis 39.95	20.1	1.3	*	*	6.1	0.4	33.7	2.8	73.5	4.9
Operations on the hemic and lymphatic system 40-41	11.6	0.8	2.8	0.7	4.6	0.5	18.8	1.6	35.7	2.9
Operations on the digestive system 42-54	189.0	8.2	40.6	7.6	99.6	5.0	235.8	10.5	645.1	31.5
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	36.0	1.7	3.2	0.9	12.4	0.8	43.6	2.5	155.6	8.4
Endoscopy of large intestine with or without biopsy 45.21-45.25	18.8	1.0	1.1	0.3	6.1	0.5	19.8	1.4	89.3	5.0
Partial excision of large intestine 45.7	9.0	0.5	*	*	2.6	0.3	12.2	1.0	38.5	2.6
Appendectomy, excluding incidental 47.0	11.6	0.7	13.1	1.7	13.6	1.0	9.0	0.7	7.3	0.7
Cholecystectomy 51.2	13.5	0.7	*	*	10.6	0.7	17.6	1.0	36.9	2.8
Lysis of peritoneal adhesions 54.5	11.8	0.7	1.0	0.3	10.6	0.9	15.6	1.1	25.9	2.0
Operations on the urinary system 55-59	33.8	2.0	6.0	1.2	18.9	1.5	43.2	2.7	112.3	7.8
Cystoscopy with or without biopsy 57.31-57.33	4.8	0.3	*	*	2.2	0.3	6.0	0.6	17.8	1.5
Operations on the male genital organs 60-64	7.9	0.5	3.8	0.8	1.2	0.2	8.8	0.7	35.7	3.1
Prostatectomy 60.2-60.6	5.3	0.4	*	*	*	*	7.0	0.6	27.8	2.5
Operations on the female genital organs 65-71	66.6	3.6	1.6	0.4	91.7	5.6	84.2	4.8	54.3	4.6
Oophorectomy and salpingo-oophorectomy 65.3-65.6	14.7	0.9	*	*	14.6	1.1	28.0	1.7	12.7	1.2
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	11.7	0.9	*	*	27.6	2.0	*	*	*	*
Hysterectomy 68.3-68.7,68.9	19.5	1.1	*	*	23.1	1.6	33.0	1.9	12.3	1.1
Obstetrical procedures 72-75	232.3	11.8	*1.9	*0.5	547.4	27.9	*	*	...	...
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	18.2	1.2	*	*	42.8	2.9	*	*	...	...
Artificial rupture of membranes 73.0	31.4	2.2	*	*	74.1	5.2	*	*	...	...
Medical induction of labor 73.4	20.9	1.4	*	*	49.2	3.3	*	*	...	...
Cesarean section 74.0-74.2,74.4,74.99	42.8	2.2	*	*	100.7	5.1	*	*	...	...
Repair of current obstetric laceration 75.5-75.6	42.6	2.2	*	*	100.4	5.3	*	*	...	...
Operations on the musculoskeletal system 76-84	140.2	7.7	27.6	4.5	71.5	4.1	198.4	12.5	444.0	27.8
Partial excision of bone 76.2-76.3,77.6-77.8	6.0	0.4	1.6	0.4	3.7	0.3	9.8	0.9	13.9	1.5
Reduction of fracture 76.7,79.0-79.3	21.0	1.2	7.2	0.9	14.8	1.0	19.0	1.7	68.9	4.3
Open reduction of fracture with internal fixation 79.3	14.4	0.9	2.9	0.4	9.7	0.7	14.0	1.4	49.9	3.3
Excision or destruction of intervertebral disc 80.5	9.9	0.7	*	*	8.1	0.7	20.4	1.5	11.8	1.2
Total hip replacement 81.51	7.9	0.7	*	*	1.2	0.2	11.0	1.3	37.8	3.5
Total knee replacement 81.54	18.1	1.6	*	*	0.6	0.1	26.7	2.4	90.1	8.5
Operations on the integumentary system 85-86	52.1	3.9	*	*	38.1	3.5	65.6	3.7	113.3	6.4
Debridement of wound, infection, or burn 86.22,86.28	12.1	1.2	*	*	8.0	1.1	15.5	1.5	32.4	2.3
Miscellaneous diagnostic and therapeutic procedures and new technologies ⁴ 87-99.00	455.2	28.6	157.2	25.7	201.1	17.5	520.9	33.9	1,679.6	97.9
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	27.5	4.3	6.2	1.6	15.3	3.2	31.5	5.2	96.0	15.0
Arteriography and angiocardiology using contrast material 88.4-88.5	67.3	4.5	2.3	0.6	14.4	1.1	109.1	7.6	271.1	19.7
Diagnostic ultrasound 88.7	30.0	3.5	*	*	12.0	1.6	34.2	4.0	120.0	15.8
Physical therapy procedures 93.1-93.3	13.8	2.1	1.6	0.4	3.1	0.5	11.1	1.6	75.4	13.7
Respiratory therapy 93.9,96.7	39.3	2.8	31.0	6.3	13.8	1.2	39.5	2.9	139.1	9.8
Insertion of endotracheal tube 96.04	17.2	0.8	6.5	1.2	6.5	0.5	18.7	1.1	67.8	4.4
Transfusion of blood and blood components 99.0	64.4	3.8	11.0	2.7	17.6	1.3	64.8	4.1	311.0	20.5
Injection or infusion of cancer chemotherapeutic substance 99.25	7.1	0.5	6.9	1.6	3.1	0.3	10.1	0.8	15.0	1.8

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error of rate.²Rates were calculated using U.S. Census Bureau 2000-based postcensal estimates of the civilian population as of July 1, 2005.³The rate per 10,000 population of discharges with a coronary artery bypass graft was 8.8.⁴Chapter 00, Procedures and interventions not elsewhere classified, is included in this category. See Data source.

Table 10. Number of all-listed procedures for discharges from short-stay hospitals by procedure category and sex: United States, 2005[Discharges of inpatients from nonfederal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM)]

Procedure category and ICD-9-CM code	Both sexes		Male		Female	
	Number	SE ¹	Number	SE ¹	Number	SE ¹
	Number in thousands					
All procedures	44,950	2,009	17,991	889	26,959	1,172
Operations on the nervous system 01-05	1,227	96	569	47	658	57
Spinal tap 03.31	343	33	168	17	175	17
Operations on the endocrine system 06-07	104	8	29	3	75	7
Operations on the eye 08-16	74	8	40	6	34	5
Operations on the ear 18-20	42	7	27	5	15	3
Operations on the nose, mouth, and pharynx 21-29	302	25	181	18	121	10
Operations on the respiratory system 30-34	1,118	54	617	33	501	27
Bronchoscopy with or without biopsy 33.21-33.24,33.27	284	18	153	11	131	10
Operations on the cardiovascular system 35-39	6,989	354	4,062	220	2,927	146
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	645	48	443	35	202	16
Insertion of coronary artery stent(s) 36.06-36.07	620	47	429	35	192	16
Coronary artery bypass graft ² 36.1	466	41	321	28	144	18
Cardiac catheterization 37.21-37.23	1,209	77	742	46	467	35
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	384	28	200	17	184	15
Hemodialysis 39.95	593	38	311	23	282	20
Operations on the hemic and lymphatic system 40-41	343	25	168	15	175	12
Operations on the digestive system 42-54	5,580	243	2,414	111	3,166	146
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	1,064	52	481	25	583	32
Endoscopy of large intestine with or without biopsy 45.21-45.25	556	29	222	14	334	18
Partial excision of large intestine 45.7	266	16	123	8	143	10
Appendectomy, excluding incidental 47.0	341	21	178	11	163	13
Cholecystectomy 51.2	398	20	143	9	256	16
Lysis of peritoneal adhesions 54.5	348	20	76	7	272	18
Operations on the urinary system 55-59	999	59	466	29	533	35
Cystoscopy with or without biopsy 57.31-57.33	142	10	67	6	74	7
Operations on the male genital organs 60-64	233	15	233	15	...	...
Prostatectomy 60.2-60.6	155	12	155	12	...	...
Operations on the female genital organs 65-71	1,967	106	...	...	1,967	106
Oophorectomy and salpingo-oophorectomy 65.3-65.6	434	26	...	...	434	26
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	346	25	...	...	346	25
Hysterectomy 68.3-68.7,68.9	575	32	...	...	575	32
Obstetrical procedures 72-75	6,858	348	...	...	6,858	348
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	537	36	...	...	537	36
Artificial rupture of membranes 73.0	928	65	...	...	928	65
Medical induction of labor 73.4	616	41	...	...	616	41
Cesarean section 74.0-74.2,74.4,74.99	1,262	64	...	...	1,262	64
Repair of current obstetric laceration 75.5-75.6	1,259	66	...	...	1,259	66
Operations on the musculoskeletal system 76-84	4,139	226	1,972	105	2,167	130
Partial excision of bone 76.2-76.3,77.6-77.8	178	12	99	9	79	7
Reduction of fracture 76.7,79.0-79.3	621	35	293	18	328	20
Open reduction of fracture with internal fixation 79.3	424	25	190	13	235	16
Excision or destruction of intervertebral disc 80.5	294	20	148	12	146	10
Total hip replacement 81.51	235	22	109	12	126	11
Total knee replacement 81.54	534	47	184	16	349	34
Operations on the integumentary system 85-86	1,538	115	731	75	807	48
Debridement of wound, infection, or burn 86.22,86.28	358	34	205	25	153	11
Miscellaneous diagnostic and therapeutic procedures and new technologies ³ 87-99,00	13,437	845	6,481	417	6,956	437
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	811	128	378	65	434	66
Arteriography and angiocardiology using contrast material 88.4-88.5	1,986	132	1,125	74	860	64
Diagnostic ultrasound 88.7	884	103	411	46	473	59
Physical therapy procedures 93.1-93.3	406	62	167	27	240	37
Respiratory therapy 93.9,96.7	1,160	82	606	42	554	42
Insertion of endotracheal tube 96.04	506	25	268	15	238	15
Transfusion of blood and blood components 99.0	1,902	112	788	48	1,115	68
Injection or infusion of cancer chemotherapeutic substance 99.25	209	15	116	10	93	9

... Category not applicable.

¹SE is standard error.²The number of discharges with a coronary artery bypass graft was 261,000.³Chapter 00, Procedures and interventions not elsewhere classified, is included in this category. See Data source.

Table 11. Rate of all-listed procedures for discharges from short-stay hospitals by procedure category and sex: United States, 2005[Discharges of inpatients from nonfederal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM)]

Procedure category and ICD-9-CM code	Both sexes		Male		Female	
	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹
	Rate per 10,000 population ²					
All procedures	1,522.7	68.1	1,241.1	61.3	1,794.5	78.0
Operations on the nervous system 01-05	41.6	3.2	39.3	3.2	43.8	3.8
Spinal tap 03.31	11.6	1.1	11.6	1.2	11.7	1.2
Operations on the endocrine system 06-07	3.5	0.3	2.0	0.2	5.0	0.5
Operations on the eye 08-16	2.5	0.3	2.8	0.4	2.3	0.3
Operations on the ear 18-20	1.4	0.2	1.8	0.4	1.0	0.2
Operations on the nose, mouth, and pharynx 21-29	10.2	0.8	12.5	1.2	8.1	0.7
Operations on the respiratory system 30-34	37.9	1.8	42.6	2.3	33.4	1.8
Bronchoscopy with or without biopsy 33.21-33.24,33.27	9.6	0.6	10.5	0.7	8.7	0.7
Operations on the cardiovascular system 35-39	236.8	12.0	280.2	15.2	194.8	9.7
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	21.9	1.6	30.6	2.4	13.4	1.1
Insertion of coronary artery stent(s) 36.06-36.07	21.0	1.6	29.6	2.4	12.8	1.1
Coronary artery bypass graft ³ 36.1	15.8	1.4	22.2	2.0	9.6	1.2
Cardiac catheterization 37.21-37.23	41.0	2.6	51.2	3.2	31.1	2.3
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	13.0	1.0	13.8	1.1	12.2	1.0
Hemodialysis 39.95	20.1	1.3	21.4	1.6	18.8	1.3
Operations on the hemic and lymphatic system 40-41	11.6	0.8	11.6	1.0	11.6	0.8
Operations on the digestive system 42-54	189.0	8.2	166.5	7.7	210.7	9.7
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	36.0	1.7	33.2	1.7	38.8	2.1
Endoscopy of large intestine with or without biopsy 45.21-45.25	18.8	1.0	15.3	1.0	22.2	1.2
Partial excision of large intestine 45.7	9.0	0.5	8.5	0.6	9.5	0.7
Appendectomy, excluding incidental 47.0	11.6	0.7	12.3	0.7	10.9	0.9
Cholecystectomy 51.2	13.5	0.7	9.8	0.6	17.0	1.0
Lysis of peritoneal adhesions 54.5	11.8	0.7	5.2	0.5	18.1	1.2
Operations on the urinary system 55-59	33.8	2.0	32.2	2.0	35.5	2.3
Cystoscopy with or without biopsy 57.31-57.33	4.8	0.3	4.7	0.4	4.9	0.4
Operations on the male genital organs 60-64	7.9	0.5	16.1	1.1	...	...
Prostatectomy 60.2-60.6	5.3	0.4	10.7	0.8	...	...
Operations on the female genital organs 65-71	66.6	3.6	...	...	130.9	7.0
Oophorectomy and salpingo-oophorectomy 65.3-65.6	14.7	0.9	...	...	28.9	1.7
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	11.7	0.9	...	...	23.0	1.7
Hysterectomy 68.3-68.7,68.9	19.5	1.1	...	...	38.3	2.1
Obstetrical procedures 72-75	232.3	11.8	...	...	456.5	23.2
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	18.2	1.2	...	...	35.7	2.4
Artificial rupture of membranes 73.0	31.4	2.2	...	...	61.8	4.3
Medical induction of labor 73.4	20.9	1.4	...	...	41.0	2.7
Cesarean section 74.0-74.2,74.4,74.99	42.8	2.2	...	...	84.0	4.3
Repair of current obstetric laceration 75.5-75.6	42.6	2.2	...	...	83.8	4.4
Operations on the musculoskeletal system 76-84	140.2	7.7	136.0	7.2	144.2	8.7
Partial excision of bone 76.2-76.3,77.6-77.8	6.0	0.4	6.8	0.6	5.3	0.5
Reduction of fracture 76.7,79.0-79.3	21.0	1.2	20.2	1.3	21.8	1.4
Open reduction of fracture with internal fixation 79.3	14.4	0.9	13.1	0.9	15.6	1.0
Excision or destruction of intervertebral disc 80.5	9.9	0.7	10.2	0.8	9.7	0.7
Total hip replacement 81.51	7.9	0.7	7.5	0.8	8.4	0.7
Total knee replacement 81.54	18.1	1.6	12.7	1.1	23.3	2.3
Operations on the integumentary system 85-86	52.1	3.9	50.4	5.2	53.7	3.2
Debridement of wound, infection, or burn 86.22,86.28	12.1	1.2	14.2	1.7	10.2	0.7
Miscellaneous diagnostic and therapeutic procedures and new technologies ⁴ 87-99,00	455.2	28.6	447.1	28.8	463.0	29.1
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	27.5	4.3	26.1	4.5	28.9	4.4
Arteriography and angiocardiology using contrast material 88.4-88.5	67.3	4.5	77.6	5.1	57.3	4.3
Diagnostic ultrasound 88.7	30.0	3.5	28.4	3.2	31.5	3.9
Physical therapy procedures 93.1-93.3	13.8	2.1	11.5	1.8	16.0	2.5
Respiratory therapy 93.9,96.7	39.3	2.8	41.8	2.9	36.9	2.8
Insertion of endotracheal tube 96.04	17.2	0.8	18.5	1.0	15.8	1.0
Transfusion of blood and blood components 99.0	64.4	3.8	54.3	3.3	74.2	4.6
Injection or infusion of cancer chemotherapeutic substance 99.25	7.1	0.5	8.0	0.7	6.2	0.6

... Category not applicable.

¹SE is standard error of rate.²Rates were calculated using U.S. Census Bureau 2000-based postcensal estimates of the civilian population as of July 1, 2005.³The rate per 10,000 population of discharges with a coronary artery bypass graft was 8.8.⁴Chapter 00, Procedures and interventions not elsewhere classified, is included in this category. See Data source.

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