

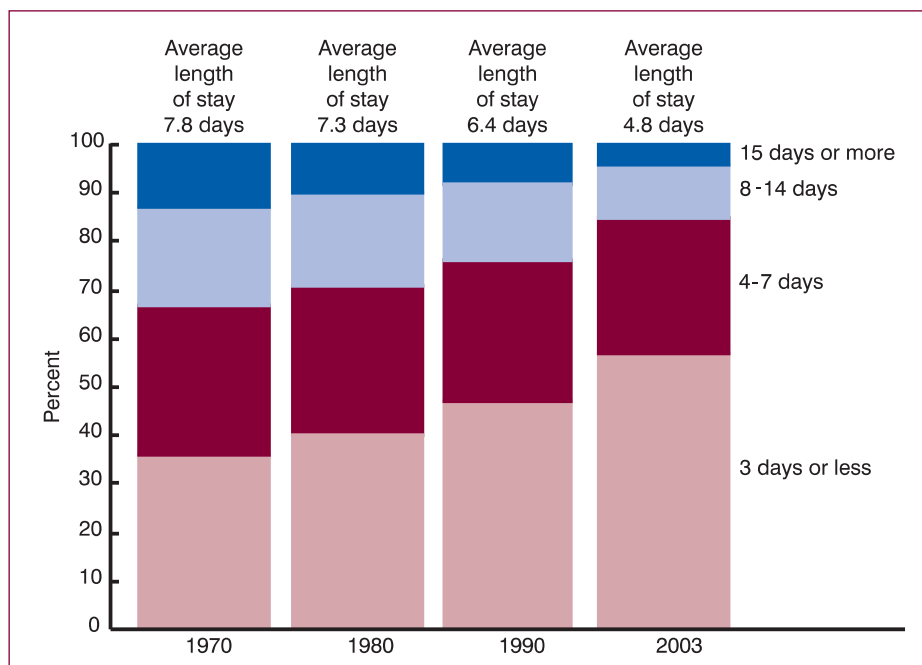
2003 National Hospital Discharge Survey

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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 nationally representative survey of hospital utilization.

As seen in the figure on this page, the length of stay for inpatients has changed dramatically from 1970 through 2003. In 1970, the average length of stay was 7.8 days, with one-third of patients hospitalized for 8 days or more. In 2003, the average length of stay decreased to 4.8 days, with only 16 percent of inpatients staying 8 days or more. During the same period, the percent of patients hospitalized for 3 days or less increased from 36 percent to 57 percent. Length of stay declined despite a significant increase in the average age of hospital inpatients (1).

A number of forces have exerted pressure on the length of hospital stays, including the shift from a Medicare cost-based to a prospective payment system for hospitals in the early 1980s, greater development and coverage of postacute care alternatives to hospitalization, the growth in utilization review programs, and the increased enrollment in managed care programs. Also important were advances in technology and drug therapy (including anesthesia and pain relief) that assisted in



Percent distribution of hospital inpatients by length of stay: United States, selected years 1970-2003

earlier diagnosis and treatment of acute conditions, safer and less invasive surgical interventions, and shorter postoperative recovery times.

This report presents information about inpatient hospital utilization during 2003 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) Web site: <http://www.cdc.gov/nchs/>.

Individual-year public-use data files are available for download from the Web site, and a multiyear public-use data file for trend analysis is available on CD-ROM. These and other products can also be obtained from the NCHS Data Dissemination Branch at 301-458-INFO or 1-866-441-NCHS (6247) or by e-mail at NCHSquery@cdc.gov.

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Abstract

Objectives—This report presents national estimates of the use of non-Federal short-stay hospitals in the United States during 2003 and trend data for selected variables. 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 sex.

Methods—The estimates are based on medical abstract data collected through the 2003 National Hospital Discharge Survey. The survey has been conducted annually by the National Center for Health Statistics since 1965. Diagnoses and procedures presented are coded using the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*.

Results—Trends in the utilization of non-Federal short-stay hospitals show that the length of stay for inpatients has changed significantly from 1970 through 2003. In 1970, the average length of stay was 7.8 days compared with 4.8 days in 2003. The percentage of discharges hospitalized for 8 days or more was 33 percent in 1970 compared with 16 percent in 2003. Inpatients staying in the hospital for 3 days or less increased significantly during this period, from 36 percent in 1970 to 57 percent in 2003.

In 2003, there were an estimated 34.7 million hospital discharges, excluding newborn infants. The discharge rate was 1,199.7 per 10,000 population. The rate of hospitalization for malignant neoplasms for people under 45 years of age, for those aged 45–64 years, and for persons 65 years and over has decreased significantly from 1990 to 2003. Of those discharges hospitalized for respiratory diseases, two-thirds had first-listed diagnoses of pneumonia (37 percent), asthma (15 percent), or chronic bronchitis (14 percent). There were 43.9 million procedures performed on inpatients during 2003. One-quarter of all procedures performed on females were obstetrical. Almost one-quarter of all procedures performed on males were cardiovascular.

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

Introduction

This report presents data from the 2003 National Hospital Discharge Survey (NHDS). The survey has been conducted continuously by the Centers for Disease Control and Prevention's (CDC) National Center for Health Statistics (NCHS) since 1965. The NHDS is the principal source for national data on the characteristics of patients discharged from non-Federal short-stay hospitals. National estimates of hospital use derived from the NHDS are published for each calendar year by NCHS. This report provides an overview of the 2003 data, including the number and rate of discharges and average lengths of stay by age and sex of patients for selected diagnoses (tables 1–7). 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 sex (tables 8–11).

Detailed data from the NHDS are published in Series 13 of *Vital and Health Statistics*, which includes two reports on trends in hospital use (2,3). Trend data from the NHDS also have been used in a NCHS special report on health care utilization (4). NHDS data have been used in articles examining important topics of interest in public health and health services research (5–21), 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 at <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 from 1994 through 1996 and covers hospital-based and free-standing ambulatory surgery centers. Data from the 3 years of this survey have been published (22–27). Plans for a 2006 NSAS are currently underway.

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 (28). The National Hospital Ambulatory Medical Care Survey collects data on visits to hospital outpatient and emergency departments (29,30).

Highlights

Patient and hospital characteristics

- Trends in hospital utilization show that from 1970 through 2003, the percentage of inpatients hospitalized for 8 days or more decreased significantly while those staying 3 days or less significantly increased. In 1970, 33 percent of all inpatients were hospitalized for 8 days or more compared with 16 percent in 2003. The percentage of inpatients staying 3 days or less increased from 36 percent in 1970 to 57 percent in 2003.
- In 2003, there were an estimated 34.7 million inpatients discharged, excluding newborn infants, from non-Federal short-stay hospitals in the United States (table 1).
- The discharge rate was 1,199.7 per 10,000 population—977.3 for males and 1,413.7 for females (table 6). Males had an average length of stay of 5.2 days compared with 4.6 days for females (table 7).
- The discharge rate per 10,000 population ranged from 1,003.3 in the West to 1,337.1 in the Northeast region. The average length of stay ranged from 4.4 days in the Midwest to 5.5 days in the Northeast region (table 1).
- The average length of stay for children under 15 years old was 4.5 days; for people 15–44 years old, it was 3.8 days; for people 45–64 years old, it was 4.9 days; and for those 65 years and over, it was 5.7 days (table 4).
- In 2003, patients under 15 years comprised 7 percent of hospital discharges, 15–44-year-olds made up 31 percent, 45–64-year-olds were 23 percent, and those 65 years and over were 38 percent (table 1).

Diagnoses

- Six diagnostic categories each accounted for a million or more discharges. These were heart disease (4.4 million), delivery (4.0 million), psychoses (1.6 million), pneumonia (1.4 million), malignant neoplasms (1.3 million), and fractures (1.1 million) (figure 1).
- The average length of stay was 2.6 days for delivery, 4.6 days for heart disease, 5.4 days for fractures, 5.5 days for pneumonia, 6.7 days for malignant neoplasms, and 8.0 days for psychoses (table 4).
- Of the 4.4 million discharges hospitalized for heart disease, 2.8 million or 64 percent were patients 65 years of age or over (table 2). For the elderly, there were 787.3 discharges per 10,000 population with a first-listed diagnosis of heart disease (table 3).
- Eleven percent of all discharges were hospitalized for respiratory diseases. Of these, 37 percent were diagnosed with pneumonia, 15 percent were diagnosed with asthma, 14 percent were diagnosed with chronic bronchitis, and 34 percent were diagnosed with other respiratory illnesses (figure 2).
- The rate of malignant neoplasms among those 65 years and over was significantly higher than that of any of the other age groups analyzed for this report, but has been decreasing since 1990. The rates for inpatients under 45 years old and those aged 45–64 years old also have been decreasing over the same period (figure 3).
- Nearly one-fifth (4 million) of female discharges were for childbirth (table 5).

Procedures

- During 2003, 43.9 million procedures were performed on hospital inpatients (table 8). Nationally, the rate of procedures was 1,515.7 per 10,000 population (table 9). For males, this rate was 1,228.3; for females, it was 1,792.2 per 10,000 population (table 11).
- Almost three-fourths of all procedures were in four ICD–9–CM chapters:

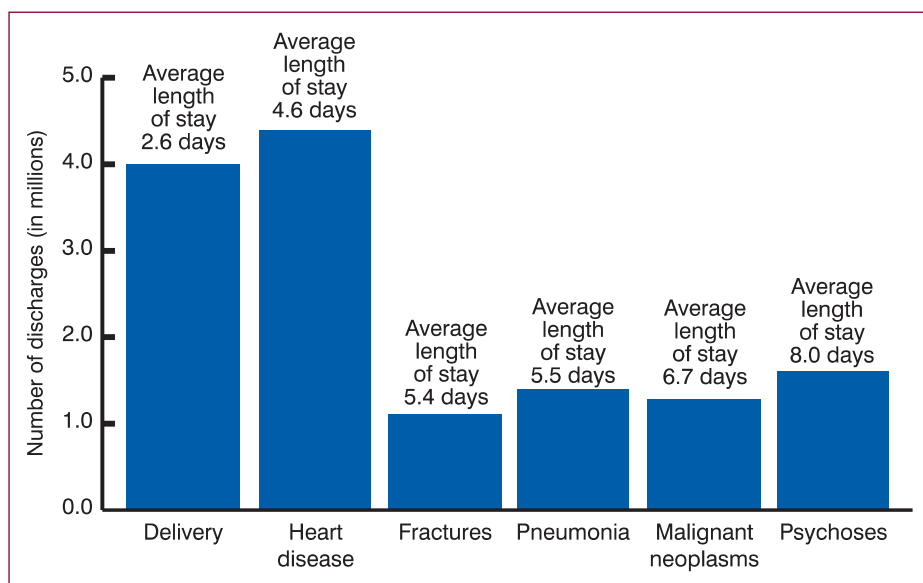


Figure 1. First-listed diagnostic categories with a million or more hospital discharges, with average length of stay: United States, 2003

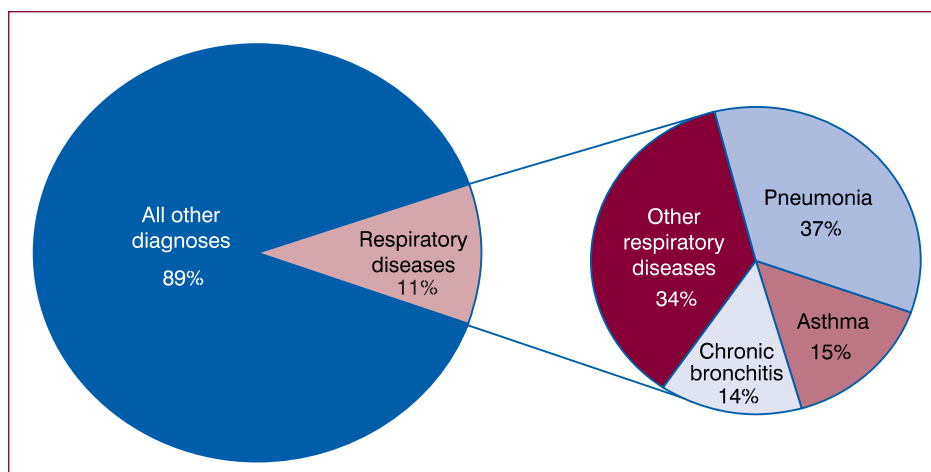


Figure 2. Percent distribution of patients hospitalized for respiratory diseases: United States, 2003

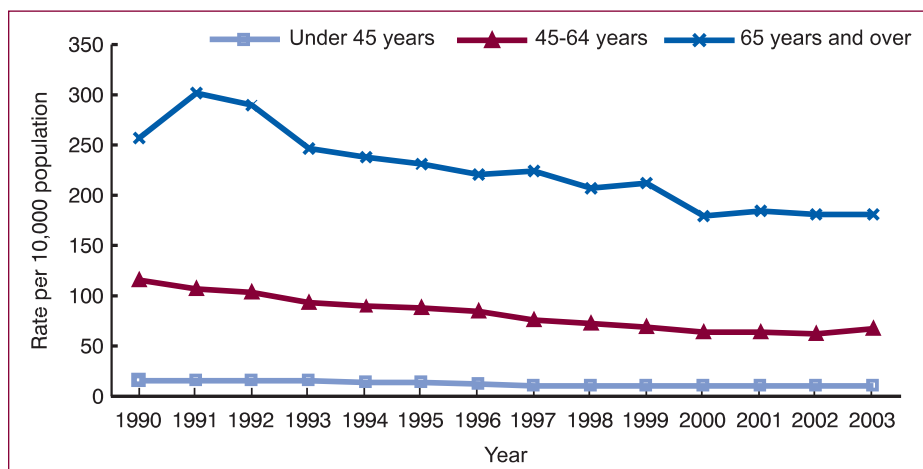


Figure 3. Rate of hospitalization for malignant neoplasms by age: United States, 1990–2003

miscellaneous diagnostic and therapeutic procedures, obstetrical procedures, operations on the cardiovascular system, and operations of the digestive system (table 10).

- One in four procedures performed on females were obstetrical, and over 1 in 10 procedures were cardiovascular (figure 4).
- Twenty-three percent of all procedures performed on males were cardiovascular, 14 percent were digestive, and 11 percent were musculoskeletal (figure 4).
- Males had more cardiovascular procedures than females (3.9 million and 2.9 million, respectively) (table 10). The rate of cardiovascular procedures performed on males was 276.7 per 10,000 population compared with 196.0 per 10,000 population for females (table 11).
- Females had more operations on the digestive system than males (3.3 million and 2.4 million, respectively) (table 10). The rate of digestive procedures for females was 224.7 per 10,000 population compared with 170.4 per population for males (table 11).
- Males had over 1.1 million arteriographies and angiocardiographies, 763,000 cardiac catheterizations, and 696,000 transfusions of blood or blood components, and 592,000 respiratory therapy procedures while hospitalized (table 10).
- Females had 1.2 million procedures for the repair of current obstetric laceration, 1.1 million cesarean sections, 914,000 transfusions of blood or blood components, and 884,000 procedures for artificial rupture of membranes while hospitalized (table 10).

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

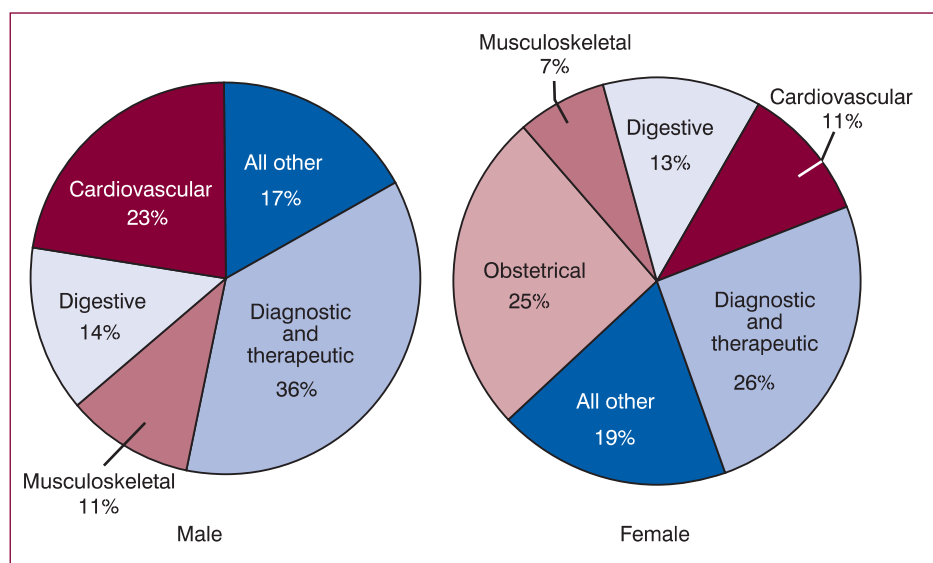


Figure 4. Percent distribution of all-listed procedures for hospitalized patients by sex: United States, 2003

for discharges, not persons. Only hospitals with an average length of stay of fewer than 30 days for all patients and general hospitals or children's general hospitals are included in the survey. Federal, military, and Department of Veterans Affairs hospitals, as well as hospital units of institutions (such as prison hospitals) and hospitals with fewer than six beds staffed for patient use, are excluded.

Prior to 1988, the NHDS was based on a two-stage design. The survey was redesigned in 1988 (31). The new sample design uses 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, discharges are selected within sampled hospitals using systematic random sampling. Until 2003, the hospital sampling frame for the redesigned survey was constructed from the SMG Hospital Market Database (32). Beginning in 2003, the sample frame was constructed from the products of Verispan, L.L.C., specifically their "Healthcare Market Index, updated May 15, 2003" and their "Hospital Market Profiling Solution, Second Quarter 2003." These two products were formerly known as the SMG Hospital Market Database. The

hospital sampling frame and sample are updated every 3 years (31).

For 2003, the sample consisted of 501 hospitals, of which 22 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 479 in-scope (eligible) hospitals, 426 responded to the survey. Data were collected for approximately 320,000 discharges from the 426 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 machine-readable medical record data from commercial organizations, State data systems, hospitals, or hospital associations. Records from these sources are systematically sampled by NCHS. In 2003, approximately 41 percent of respondent hospitals provided data through the automated system. A detailed report on the design and operation of the NHDS has been published (31).

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 were also included. The medical information about patients includes up to seven diagnoses, as many as four surgical and nonsurgical operations and procedures, and dates of surgery. Medical data are coded according to the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)* (33). In 2002, the ICD-9-CM Coordination and Maintenance Committee created “Chapter 00, Procedures and Interventions Not Elsewhere Classified” to handle space limitations in the existing hierarchical structure. This chapter, used for the first time to code the 2003 NHDS data, 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 machine-readable 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 2003 data year was 0.1 percent for medical (ICD-9-CM) coding and keying and 0.1 percent for demographic coding and keying.

Estimation

Because of the complex multistage design of the NHDS, the survey data must be inflated or weighted 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 (31).

The standard error is primarily a measure of sampling variability that

occurs by chance because only a sample rather than the entire universe is surveyed. Estimates of the sampling variability for this report were calculated with SUDAAN software, which takes into account the complex sample design. A description of the software and the approach it uses has been published (34). The standard errors of statistics presented in this report are included in each of the tables.

Use of tables

Discharges are reported by first-listed diagnosis, 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 (31).

The diagnoses and procedures appear in separate tables of this report, presented by ICD-9-CM chapter. Within these chapters, subcategories of 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 based on 30–59 patient records are preceded by an asterisk to indicate that they also have low reliability.

Estimates are rounded to the nearest thousand. 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 estimates of the civilian population of the United States as of July 1, 2003, based on the 2000 census. The data are from unpublished tabulations provided by the U.S. Census Bureau. Civilian population estimates for 2003 are available at <http://www.cdc.gov/nchs/about/major/hdasd/nhds.htm>.

This is the third year that the NHDS publications used rates calculated using 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.

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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, 2003

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

Selected characteristic	Both sexes		Male		Female	
	Number	SE ¹	Number	SE ¹	Number	SE ¹
			Number in thousands			
Total	34,738	1,283	13,874	552	20,864	759
Age						
Under 15 years	2,571	345	1,457	194	1,115	152
15–44 years	10,831	444	2,905	143	7,926	330
45–64 years	8,120	326	4,016	165	4,104	168
65 years and over	13,216	526	5,497	233	7,719	304
Region						
Northeast	7,267	509	3,083	230	4,184	288
Midwest	7,786	811	3,131	340	4,655	476
South	13,055	726	5,026	299	8,029	445
West	6,631	439	2,634	213	3,996	254
			Rate per 10,000 population ²			
Total	1,199.7	44.3	977.3	38.9	1,413.7	51.4
Age						
Under 15 years	423.3	56.7	468.7	62.4	375.8	51.2
15–44 years	871.8	35.7	464.8	22.8	1,284.0	53.5
45–64 years	1,182.5	47.5	1,201.1	49.4	1,164.9	47.8
65 years and over	3,679.4	146.4	3,677.1	156.2	3,681.1	145.1
Region						
Northeast	1,337.1	93.6	1,171.5	87.4	1,492.7	102.7
Midwest	1,192.0	124.1	976.8	106.2	1,399.4	143.2
South	1,257.6	69.9	991.4	59.0	1,511.7	83.7
West	1,003.3	66.4	800.6	64.7	1,204.3	76.5
			Average length of stay in days			
Total	4.8	0.1	5.2	0.1	4.6	0.1
Age						
Under 15 years	4.5	0.2	4.4	0.2	4.7	0.2
15–44 years	3.8	0.1	4.9	0.1	3.3	0.1
45–64 years	4.9	0.1	5.0	0.1	4.8	0.1
65 years and over	5.7	0.1	5.6	0.1	5.7	0.1
Region						
Northeast	5.5	0.1	5.7	0.2	5.3	0.1
Midwest	4.4	0.1	4.6	0.1	4.2	0.1
South	4.9	0.1	5.3	0.1	4.6	0.1
West	4.5	0.1	5.0	0.2	4.2	0.2

¹SE is standard error.²Rates were calculated using U.S. Census Bureau estimates of the civilian population based on the 2000 census.

Table 2. Number of discharges from short-stay hospitals by first-listed diagnosis and age: United States, 2003

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

Category of first-listed diagnosis and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	Number	SE ¹	Number	SE ¹	Number	SE ¹	Number	SE ¹	Number	SE ¹
	Number in thousands									
All conditions	34,738	1,283	2,571	345	10,831	444	8,120	326	13,216	526
Infectious and parasitic diseases 001-139	928	48	162	27	189	12	192	13	385	23
Septicemia 038	366	22	16	3	28	4	82	7	240	16
Neoplasms 140-239	1,692	84	40	9	300	19	627	38	726	35
Malignant neoplasms 140-208,230-234	1,267	65	30	7	128	13	458	29	651	32
Malignant neoplasm of large intestine and rectum 153-154,197.5	158	11	*	*	9	2	53	5	95	9
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	168	11	*	*	7	1	57	6	104	7
Benign neoplasms 210-229	385	25	8	2	163	11	158	14	57	6
Benign neoplasm of uterus 218-219	228	15	*	*	123	9	102	10	*	*
Endocrine, nutritional, and metabolic diseases, and immunity disorders 240-279	1,785	70	196	25	389	21	478	20	722	34
Diabetes mellitus 250	597	26	31	6	156	11	204	10	205	14
Volume depletion 276.5	568	32	137	18	57	6	86	7	287	18
Diseases of the blood and blood-forming organs 280-289	445	25	52	9	114	10	94	9	186	11
Anemias 280-285	309	18	26	5	88	8	60	7	135	9
Mental disorders 290-319	2,292	279	127	31	1,282	176	618	73	265	25
Psychoses 290-299	1,586	202	*	*	857	121	423	55	227	23
Schizophrenic disorders 295	317	48	*	*	175	25	120	22	21	5
Major depressive disorder 296.2-296.3	507	83	*	*	301	52	120	19	51	7
Diseases of the nervous system and sense organs 320-389	532	31	82	14	132	11	123	11	194	12
Diseases of the circulatory system 390-459	6,434	266	32	6	445	23	1,898	82	4,060	176
Essential hypertension 401	307	17	*	*	45	4	123	8	138	10
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4,445	194	18	4	275	18	1,325	61	2,828	129
Acute myocardial infarction 410	767	47	*	*	44	5	227	16	496	31
Coronary atherosclerosis 414.0	1,036	71	*	*	51	6	418	28	566	43
Other ischemic heart disease 411-413,414.1-414.9	209	14	*	*	18	2	90	8	100	9
Cardiac dysrhythmias 427	799	38	7	2	50	5	200	15	542	27
Congestive heart failure 428.0,428.2-428.4	1,088	48	*	*	37	5	251	14	797	41
Cerebrovascular disease 430-438	966	47	*	*	47	5	231	13	684	35
Diseases of the respiratory system 460-519	3,802	165	754	96	421	23	777	39	1,850	92
Acute bronchitis and bronchiolitis 466	241	26	174	25	14	3	17	3	36	5
Pneumonia 480-486	1,393	66	198	25	124	8	265	16	806	46
Chronic bronchitis 491	528	33	*	*	16	3	156	15	354	24
Asthma 493	574	39	213	28	127	10	125	11	109	12
Diseases of the digestive system 520-579	3,468	134	216	31	829	38	1,033	48	1,389	58
Appendicitis 540-543	307	19	74	11	157	12	57	5	19	3
Noninfectious enteritis and colitis 555-558	314	21	45	8	84	7	73	6	112	10
Intestinal obstruction 560	290	17	12	2	38	4	83	8	157	11
Diverticula of intestine 562	297	18	*	*	36	6	93	8	169	11
Cholelithiasis 574	360	18	*	*	107	8	111	8	140	10
Acute pancreatitis 577.0	224	13	*	*	81	6	79	6	61	6
Diseases of the genitourinary system 580-629	1,888	81	90	16	574	31	478	24	746	37
Calculus of kidney and ureter 592	181	12	*	*	71	5	72	7	35	4
Urinary tract infection 599.0	431	30	31	6	37	5	59	7	305	23
Complications of pregnancy, childbirth, and the puerperium ² 630-677	552	34	*	*	551	34	*	*	...	...
Diseases of the skin and subcutaneous tissue 680-709	656	50	*	*	187	17	174	10	214	14
Cellulitis and abscess 681-682	474	25	39	6	140	11	138	9	158	11
Diseases of the musculoskeletal system and connective tissue 710-739	1,854	100	45	9	323	17	651	40	834	51
Osteoarthritis and allied disorders 715	623	50	*	*	21	4	217	21	385	32
Intervertebral disc disorders 722	357	23	*	*	131	9	158	13	67	7
Congenital anomalies 740-759	183	27	119	24	39	6	18	3	*7	*2
Certain conditions originating in the perinatal period 760-779	191	36	191	36	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions 780-799	271	23	64	9	90	8	56	7	61	9
Injury and poisoning 800-999	2,833	129	251	42	822	45	679	38	1,081	49
Fractures, all sites ³ 800-829	1,052	54	86	14	256	18	173	13	536	30
Fracture of neck of femur ³ 820	304	19	*	*	*9	*2	18	2	275	17
Poisonings 960-989	244	15	18	4	147	10	52	5	27	3
Certain complications of surgical and medical care 996-999	874	44	47	10	168	11	323	20	336	20
Supplementary classifications V01-V83	4,933	223	70	11	4,145	199	221	18	496	54
Females with deliveries V27	4,022	195	*3	*1	4,011	195	*8	*2	...	...

* Figure does not meet standard of reliability or precision.

... Category not applicable.

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

Table 3. Rate of discharges from short-stay hospitals by age and first-listed diagnosis: United States, 2003[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹
	Number in thousands									
All conditions	1,199.7	44.3	423.3	56.7	871.8	35.7	1,182.5	47.5	3,679.4	146.4
Infectious and parasitic diseases 001-139	32.0	1.6	26.6	4.4	15.2	1.0	27.9	1.9	107.2	6.5
Septicemia038	12.6	0.8	2.7	0.6	2.2	0.3	12.0	1.0	66.7	4.4
Neoplasms 140-239	58.4	2.9	6.6	1.4	24.1	1.5	91.3	5.6	202.2	9.9
Malignant neoplasms 140-208,230-234	43.8	2.3	5.0	1.1	10.3	1.0	66.7	4.3	181.2	8.9
Malignant neoplasm of large intestine and rectum 153-154,197.5	5.5	0.4	*	*	0.7	0.2	7.8	0.7	26.5	2.4
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	5.8	0.4	*	*	0.5	0.1	8.3	0.9	29.0	1.9
Benign neoplasms 210-229	13.3	0.9	1.3	0.4	13.1	0.9	22.9	2.0	15.8	1.5
Benign neoplasm of uterus 218-219	7.9	0.5	*	*	9.9	0.7	14.9	1.4	*	*
Endocrine, nutritional, and metabolic diseases, and immunity disorders 240-279	61.6	2.4	32.2	4.1	31.3	1.7	69.7	2.9	201.0	9.6
Diabetes mellitus250	20.6	0.9	5.1	1.0	12.6	0.9	29.7	1.4	57.1	3.9
Volume depletion 276.5	19.6	1.1	22.6	3.0	4.6	0.5	12.5	1.0	80.0	4.9
Diseases of the blood and blood-forming organs 280-289	15.4	0.9	8.5	1.5	9.1	0.8	13.7	1.4	51.7	3.1
Anemias 280-285	10.7	0.6	4.2	0.8	7.1	0.7	8.8	1.1	37.6	2.5
Mental disorders 290-319	79.2	9.6	21.0	5.1	103.2	14.1	90.1	10.6	73.8	6.9
Psychoses 290-299	54.8	7.0	*	*	69.0	9.7	61.6	8.0	63.2	6.4
Schizophrenic disorders295	11.0	1.7	*	*	14.1	2.0	17.4	3.2	5.9	1.3
Major depressive disorder 296.2-296.3	17.5	2.9	*	*	24.2	4.2	17.4	2.8	14.3	1.9
Diseases of the nervous system and sense organs 320-389	18.4	1.1	13.5	2.3	10.6	0.9	17.9	1.6	54.1	3.3
Diseases of the circulatory system 390-459	222.2	9.2	5.2	1.0	35.8	1.8	276.5	11.9	1,130.2	49.0
Essential hypertension401	10.6	0.6	*	*	3.6	0.4	17.8	1.2	38.5	2.8
Heart disease 391-392.0,393-398,402,404,410-416,420-429	153.5	6.7	2.9	0.7	22.1	1.4	192.9	8.8	787.3	35.9
Acute myocardial infarction410	26.5	1.6	*	*	3.5	0.4	33.0	2.4	138.2	8.6
Coronary atherosclerosis414.0	35.8	2.5	*	*	4.1	0.5	60.9	4.1	157.6	12.0
Other ischemic heart disease 411-413,414.1-414.9	7.2	0.5	*	*	1.5	0.2	13.1	1.2	27.9	2.4
Cardiac dysrhythmias427	27.6	1.3	1.2	0.3	4.0	0.4	29.1	2.2	151.0	7.4
Congestive heart failure 428.0,428.2-428.4	37.6	1.7	*	*	3.0	0.4	36.6	2.0	222.0	11.4
Cerebrovascular disease 430-438	33.3	1.6	*	*	3.8	0.4	33.6	1.9	190.5	9.9
Diseases of the respiratory system 460-519	131.3	5.7	124.2	15.8	33.9	1.9	113.1	5.6	515.1	25.5
Acute bronchitis and bronchiolitis466	8.3	0.9	28.6	4.2	1.1	0.2	2.5	0.4	10.1	1.3
Pneumonia 480-486	48.1	2.3	32.6	4.1	10.0	0.6	38.6	2.3	224.4	12.9
Chronic bronchitis491	18.2	1.1	*	*	1.3	0.2	22.8	2.2	98.7	6.8
Asthma493	19.8	1.4	35.0	4.5	10.2	0.8	18.3	1.5	30.5	3.2
Diseases of the digestive system 520-579	119.8	4.6	35.6	5.1	66.7	3.0	150.5	7.0	386.7	16.3
Appendicitis 540-543	10.6	0.7	12.2	1.7	12.7	1.0	8.3	0.8	5.3	0.8
Noninfectious enteritis and colitis 555-558	10.8	0.7	7.4	1.3	6.8	0.6	10.7	0.9	31.1	2.8
Intestinal obstruction560	10.0	0.6	1.9	0.4	3.1	0.3	12.0	1.2	43.7	2.9
Diverticula of intestine562	10.3	0.6	*	*	2.9	0.4	13.5	1.1	47.0	2.9
Cholelithiasis574	12.4	0.6	*	*	8.6	0.7	16.1	1.2	38.9	2.8
Acute pancreatitis 577.0	7.7	0.4	*	*	6.5	0.5	11.4	0.9	17.1	1.6
Diseases of the genitourinary system 580-629	65.2	2.8	14.8	2.6	46.2	2.5	69.7	3.5	207.8	10.3
Calculus of kidney and ureter592	6.3	0.4	*	*	5.7	0.4	10.5	1.0	9.8	1.1
Urinary tract infection 599.0	14.9	1.0	5.1	1.1	3.0	0.4	8.6	1.0	84.9	6.4
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	19.1	1.2	*	*	44.4	2.8	*	*	...	...
Diseases of the skin and subcutaneous tissue 680-709	22.7	1.7	*	*	15.0	1.4	25.3	1.5	59.6	3.9
Cellulitis and abscess 681-682	16.4	0.9	6.4	1.0	11.2	0.9	20.1	1.3	44.0	3.0
Diseases of the musculoskeletal system and connective tissue 710-739	64.0	3.5	7.4	1.5	26.0	1.4	94.9	5.8	232.2	14.1
Osteoarthritis and allied disorders715	21.5	1.7	*	*	1.7	0.3	31.5	3.0	107.1	8.8
Intervertebral disc disorders722	12.3	0.8	*	*	10.6	0.8	23.0	1.8	18.7	2.0
Congenital anomalies 740-759	6.3	0.9	19.7	4.0	3.1	0.5	2.6	0.4	*1.9	*0.6
Certain conditions originating in the perinatal period 760-779	6.6	1.2	31.4	5.9	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions 780-799	9.4	0.8	10.5	1.6	7.3	0.6	8.2	1.0	16.9	2.6
Injury and poisoning 800-999	97.8	4.5	41.3	7.0	66.2	3.7	98.9	5.6	300.9	13.7
Fractures, all sites ⁴ 800-829	36.3	1.9	14.2	2.3	20.6	1.4	25.3	1.9	149.2	8.4
Fracture of neck of femur ⁴820	10.5	0.7	*	*	*0.7	*0.2	2.7	0.4	76.6	4.8
Poisonings 960-989	8.4	0.5	3.0	0.7	11.8	0.8	7.6	0.7	7.4	0.9
Certain complications of surgical and medical care 996-999	30.2	1.5	7.7	1.6	13.6	0.9	47.0	2.9	93.7	5.4
Supplementary classifications V01-V83	170.3	7.7	11.5	1.8	333.7	16.0	32.2	2.6	138.2	15.1
Females with deliveries V27	138.9	6.7	*0.6	*0.1	322.9	15.7	*1.1	*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 estimates of the civilian population based on the 2000 census.³First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."⁴Excludes fractures coded as 733.1, pathologic fracture.

Table 4. Average length of stay for discharges from short-stay hospitals by age and first-listed diagnosis: United States, 2003[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	ALOS ¹	SE ²	ALOS ¹	SE ²	ALOS ¹	SE ²	ALOS ¹	SE ²	ALOS ¹	SE ²
All conditions	4.8	0.1	4.5	0.2	3.8	0.1	4.9	0.1	5.7	0.1
Infectious and parasitic diseases 001-139	6.4	0.2	3.2	0.2	5.4	0.3	7.3	0.4	7.8	0.4
Septicemia 038	8.2	0.3	6.0	0.9	8.5	1.1	7.8	0.5	8.5	0.5
Neoplasms 140-239	5.9	0.1	9.6	1.2	4.2	0.2	5.5	0.2	6.8	0.2
Malignant neoplasms 140-208,230-234	6.7	0.1	11.4	1.4	6.2	0.4	6.2	0.2	7.0	0.2
Malignant neoplasm of large intestine and rectum 153-154,197.5	8.6	0.3	*	*	7.8	0.6	8.0	0.6	8.9	0.3
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	6.8	0.3	*	*	6.4	1.0	6.8	0.5	6.9	0.4
Benign neoplasms 210-229	3.2	0.1	3.2	0.5	2.7	0.1	3.2	0.1	4.7	0.3
Benign neoplasm of uterus 218-219	2.6	0.1	*	*	2.5	0.1	2.7	0.1	*	*
Endocrine, nutritional, and metabolic diseases, and immunity disorders 240-279	4.2	0.1	3.2	0.3	3.5	0.1	4.1	0.2	4.9	0.2
Diabetes mellitus 250	4.7	0.1	2.7	0.2	3.9	0.2	5.1	0.3	5.1	0.2
Volume depletion 276.5	3.7	0.1	2.2	0.1	2.9	0.2	4.0	0.5	4.5	0.2
Diseases of the blood and blood-forming organs 280-289	4.6	0.2	3.4	0.3	5.5	0.7	4.2	0.2	4.6	0.2
Anemias 280-285	4.4	0.3	3.2	0.2	5.5	0.8	4.0	0.3	4.1	0.2
Mental disorders 290-319	7.2	0.3	11.0	2.0	6.6	0.3	7.0	0.4	8.6	0.4
Psychoses 290-299	8.0	0.3	9.1	1.4	7.5	0.4	8.3	0.4	9.2	0.4
Schizophrenic disorders 295	11.5	0.7	*	*	11.4	0.9	11.2	0.9	13.6	1.5
Major depressive disorder 296.2-296.3	6.6	0.3	7.6	1.0	5.8	0.3	7.1	0.3	9.8	0.5
Diseases of the nervous system and sense organs 320-389	5.3	0.4	4.2	0.4	4.1	0.3	6.8	1.5	5.7	0.3
Diseases of the circulatory system 390-459	4.7	0.1	4.9	0.6	4.3	0.4	4.2	0.1	4.9	0.1
Essential hypertension 401	2.3	0.1	*	*	2.0	0.2	2.2	0.1	2.6	0.1
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4.6	0.1	4.8	0.9	4.3	0.7	4.1	0.1	4.8	0.1
Acute myocardial infarction 410	5.5	0.1	*	*	4.0	0.4	5.0	0.3	5.9	0.2
Coronary atherosclerosis 414.0	3.5	0.1	*	*	2.8	0.3	3.4	0.2	3.7	0.1
Other ischemic heart disease 411-413,414.1-414.9	2.6	0.2	*	*	2.4	0.5	2.5	0.4	2.6	0.2
Cardiac dysrhythmias 427	3.7	0.1	2.6	0.5	2.4	0.2	3.3	0.2	3.9	0.1
Congestive heart failure 428.0,428.2-428.4	5.2	0.1	*	*	5.6	0.7	4.8	0.2	5.4	0.1
Cerebrovascular disease 430-438	5.1	0.1	*6.0	*0.7	5.4	0.3	4.7	0.2	5.1	0.2
Diseases of the respiratory system 460-519	5.1	0.1	3.0	0.1	4.1	0.2	5.3	0.1	6.2	0.1
Acute bronchitis and bronchiolitis 466	3.1	0.1	2.9	0.1	2.8	0.3	3.4	0.3	4.0	0.3
Pneumonia 480-486	5.5	0.1	3.4	0.2	4.4	0.2	5.9	0.2	6.2	0.1
Chronic bronchitis 491	5.1	0.2	*	*	4.2	0.6	4.8	0.2	5.2	0.2
Asthma 493	3.3	0.1	2.3	0.1	2.9	0.1	3.7	0.1	5.2	0.4
Diseases of the digestive system 520-579	4.7	0.1	3.7	0.2	3.7	0.1	4.7	0.1	5.5	0.1
Appendicitis 540-543	3.3	0.2	4.0	0.6	2.6	0.1	3.6	0.3	6.2	0.7
Noninfectious enteritis and colitis 555-558	4.6	0.2	2.3	0.2	4.1	0.3	4.9	0.4	5.6	0.4
Intestinal obstruction 560	6.1	0.3	3.1	0.5	4.8	0.4	6.2	0.6	6.5	0.4
Diverticula of intestine 562	5.4	0.2	*	*	4.4	0.3	5.1	0.3	5.8	0.2
Cholelithiasis 574	4.2	0.2	*2.8	*0.6	3.3	0.3	3.7	0.2	5.3	0.4
Acute pancreatitis 577.0	5.9	0.3	*	*	5.5	0.3	5.5	0.4	6.9	0.7
Diseases of the genitourinary system 580-629	3.9	0.1	3.2	0.2	2.8	0.1	3.6	0.2	4.9	0.1
Calculus of kidney and ureter 592	2.6	0.2	*	*	2.5	0.4	2.4	0.1	3.2	0.3
Urinary tract infection 599.0	4.8	0.2	3.5	0.4	3.4	0.2	4.7	0.5	5.1	0.2
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	3.2	0.3	*	*	3.2	0.3	*	*	...	...
Diseases of the skin and subcutaneous tissue 680-709	4.9	0.2	2.7	0.3	4.3	0.3	5.6	0.3	5.8	0.2
Cellulitis and abscess 681-682	4.7	0.1	3.0	0.1	4.1	0.2	5.2	0.2	5.3	0.2
Diseases of the musculoskeletal system and connective tissue 710-739	4.0	0.1	5.0	0.5	3.4	0.1	3.6	0.1	4.5	0.1
Osteoarthritis and allied disorders 715	4.0	0.1	*	*	3.6	0.2	3.7	0.1	4.2	0.1
Intervertebral disc disorders 722	2.9	0.1	*	*	2.4	0.1	2.9	0.2	4.1	0.3
Congenital anomalies 740-759	6.4	0.7	6.6	0.5	*	*	4.5	0.5	*5.4	*0.8
Certain conditions originating in the perinatal period 760-779	10.5	1.0	10.5	1.0	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions 780-799	3.1	0.3	2.3	0.2	2.8	0.5	3.6	0.6	3.9	0.4
Injury and poisoning 800-999	5.2	0.1	4.0	0.3	4.5	0.2	5.5	0.2	5.9	0.1
Fractures, all sites ⁴ 800-829	5.4	0.2	2.8	0.3	4.9	0.4	5.4	0.3	6.1	0.2
Fracture of neck of femur ⁴ 820	6.5	0.2	*	*	*9.3	*2.7	6.1	0.6	6.5	0.2
Poisonings 960-989	2.8	0.2	2.3	0.4	2.6	0.2	3.0	0.4	4.2	0.6
Certain complications of surgical and medical care 996-999	6.2	0.2	6.0	0.6	5.5	0.3	6.4	0.3	6.3	0.2
Supplementary classifications V01-V83	3.6	0.1	4.4	0.5	2.7	0.0	7.7	0.4	9.7	0.3
Females with deliveries V27	2.6	0.0	*2.5	*0.2	2.6	0.0	*4.3	*0.9	...	...

* 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, 2003[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	Both sexes		Male		Female	
	Number	SE ¹	Number	SE ¹	Number	SE ¹
	Number in thousands					
All conditions	34,738	1,283	13,874	552	20,864	759
Infectious and parasitic diseases 001-139	928	48	438	26	490	28
Septicemia 038	366	22	155	10	211	16
Neoplasms 140-239	1,692	84	676	41	1,016	50
Malignant neoplasms 140-208,230-234	1,267	65	608	36	659	35
Malignant neoplasm of large intestine and rectum 153-154,197.5	158	11	80	7	78	8
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	168	11	89	7	80	7
Benign neoplasms 210-229	385	25	48	6	337	21
Benign neoplasm of uterus 218-219	228	15	*	*	228	15
Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279	1,785	70	715	34	1,070	42
Diabetes mellitus 250	597	26	283	15	314	16
Volume depletion 276.5	568	32	235	16	333	19
Diseases of the blood and blood-forming organs 280-289	445	25	189	12	256	15
Anemias 280-285	309	18	131	9	178	12
Mental disorders 290-319	2,292	279	1,160	143	1,132	139
Psychoses 290-299	1,586	202	760	97	825	107
Schizophrenic disorders 295	317	48	177	29	140	20
Major depressive disorder 296.2-296.3	507	83	200	34	307	51
Diseases of the nervous system and sense organs 320-389	532	31	234	14	297	21
Diseases of the circulatory system 390-459	6,434	266	3,239	143	3,196	130
Essential hypertension 401	307	17	119	8	187	11
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4,445	194	2,290	107	2,155	93
Acute myocardial infarction 410	767	47	440	31	327	21
Coronary atherosclerosis 414.0	1,036	71	630	44	406	31
Other ischemic heart disease 411-413,414.1-414.9	209	14	106	9	103	8
Cardiac dysrhythmias 427	799	38	374	19	426	23
Congestive heart failure 428.0,428.2-428.4	1,088	48	493	24	595	28
Cerebrovascular disease 430-438	966	47	455	25	510	27
Diseases of the respiratory system 460-519	3,802	165	1,802	87	2,000	88
Acute bronchitis and bronchiolitis 466	241	26	131	16	110	12
Pneumonia 480-486	1,393	66	678	36	715	40
Chronic bronchitis 491	528	33	235	15	294	21
Asthma 493	574	39	232	21	342	23
Diseases of the digestive system 520-579	3,468	134	1,534	62	1,933	79
Appendicitis 540-543	307	19	171	12	136	10
Noninfectious enteritis and colitis 555-558	314	21	118	10	196	14
Intestinal obstruction 560	290	17	113	9	176	11
Diverticula of intestine 562	297	18	125	9	173	13
Cholelithiasis 574	360	18	132	9	228	12
Acute pancreatitis 577.0	224	13	115	8	109	7
Diseases of the genitourinary system 580-629	1,888	81	589	33	1,299	57
Calculus of kidney and ureter 592	181	12	100	8	81	6
Urinary tract infection 599.0	431	30	139	14	292	19
Complications of pregnancy, childbirth, and the puerperium ² 630-677	552	34	...	...	552	34
Diseases of the skin and subcutaneous tissue 680-709	656	50	338	29	318	23
Cellulitis and abscess 681-682	474	25	247	14	227	14
Diseases of the musculoskeletal system and connective tissue 710-739	1,854	100	794	47	1,059	56
Osteoarthritis and allied disorders 715	623	50	241	23	381	30
Intervertebral disc disorders 722	357	23	181	14	176	13
Congenital anomalies 740-759	183	27	96	16	87	12
Certain conditions originating in the perinatal period 760-779	191	36	112	22	79	15
Symptoms, signs, and ill-defined conditions 780-799	271	23	133	12	138	14
Injury and poisoning 800-999	2,833	129	1,435	74	1,398	61
Fractures, all sites ³ 800-829	1,052	54	489	31	563	29
Fracture of neck of femur ³ 820	304	19	93	9	211	14
Poisonings 960-989	244	15	123	9	122	8
Certain complications of surgical and medical care 996-999	874	44	423	25	451	23
Supplementary classifications V01-V83	4,933	223	388	34	4,544	208
Females with deliveries V27	4,022	195	...	...	4,022	195

* Figure does not meet standard of reliability or precision.

... Category not applicable.

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

Table 6. Rate of discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 2003[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	Both sexes		Male		Female	
	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹
	Rate per 10,000 population					
All conditions	1,199.7	44.3	977.3	38.9	1,413.7	51.4
Infectious and parasitic diseases 001-139	32.0	1.6	30.9	1.8	33.2	1.9
Septicemia 038	12.6	0.8	10.9	0.7	14.3	1.1
Neoplasms. 140-239	58.4	2.9	47.6	2.9	68.9	3.4
Malignant neoplasms 140-208,230-234	43.8	2.3	42.8	2.5	44.7	2.4
Malignant neoplasm of large intestine and rectum 153-154,197.5	5.5	0.4	5.6	0.5	5.3	0.5
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	5.8	0.4	6.3	0.5	5.4	0.5
Benign neoplasms. 210-229	13.3	0.9	3.4	0.4	22.8	1.4
Benign neoplasm of uterus 218-219	7.9	0.5	*	*	15.4	1.0
Endocrine, nutritional, and metabolic diseases, and immunity disorders 240-279	61.6	2.4	50.4	2.4	72.5	2.8
Diabetes mellitus 250	20.6	0.9	19.9	1.1	21.2	1.1
Volume depletion 276.5	19.6	1.1	16.6	1.1	22.5	1.3
Diseases of the blood and blood-forming organs 280-289	15.4	0.9	13.3	0.8	17.4	1.0
Anemias 280-285	10.7	0.6	9.2	0.6	12.1	0.8
Mental disorders 290-319	79.2	9.6	81.7	10.1	76.7	9.4
Psychoses 290-299	54.8	7.0	53.5	6.9	55.9	7.2
Schizophrenic disorders. 295	11.0	1.7	12.5	2.1	9.5	1.3
Major depressive disorder 296.2-296.3	17.5	2.9	14.1	2.4	20.8	3.5
Diseases of the nervous system and sense organs. 320-389	18.4	1.1	16.5	1.0	20.2	1.4
Diseases of the circulatory system 390-459	222.2	9.2	228.1	10.1	216.5	8.8
Essential hypertension 401	10.6	0.6	8.4	0.6	12.7	0.8
Heart disease 391-392.0,393-398,402,404,410-416,420-429	153.5	6.7	161.3	7.6	146.0	6.3
Acute myocardial infarction 410	26.5	1.6	31.0	2.1	22.2	1.4
Coronary atherosclerosis 414.0	35.8	2.5	44.3	3.1	27.5	2.1
Other ischemic heart disease 411-413,414.1-414.9	7.2	0.5	7.5	0.6	7.0	0.6
Cardiac dysrhythmias 427	27.6	1.3	26.3	1.4	28.8	1.5
Congestive heart failure 428.0,428.2-428.4	37.6	1.7	34.7	1.7	40.3	1.9
Cerebrovascular disease. 430-438	33.3	1.6	32.1	1.8	34.6	1.9
Diseases of the respiratory system 460-519	131.3	5.7	127.0	6.1	135.5	5.9
Acute bronchitis and bronchiolitis 466	8.3	0.9	9.2	1.1	7.5	0.8
Pneumonia 480-486	48.1	2.3	47.7	2.5	48.5	2.7
Chronic bronchitis 491	18.2	1.1	16.5	1.1	19.9	1.4
Asthma 493	19.8	1.4	16.3	1.5	23.2	1.6
Diseases of the digestive system 520-579	119.8	4.6	108.1	4.4	131.0	5.3
Appendicitis. 540-543	10.6	0.7	12.1	0.8	9.2	0.7
Noninfectious enteritis and colitis 555-558	10.8	0.7	8.3	0.7	13.3	1.0
Intestinal obstruction 560	10.0	0.6	8.0	0.6	11.9	0.8
Diverticula of intestine 562	10.3	0.6	8.8	0.6	11.7	0.9
Cholelithiasis 574	12.4	0.6	9.3	0.6	15.4	0.8
Acute pancreatitis 577.0	7.7	0.4	8.1	0.5	7.4	0.5
Diseases of the genitourinary system 580-629	65.2	2.8	41.5	2.3	88.0	3.8
Calculus of kidney and ureter. 592	6.3	0.4	7.0	0.6	5.5	0.4
Urinary tract infection 599.0	14.9	1.0	9.8	1.0	19.8	1.3
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	19.1	1.2	...	...	37.4	2.3
Diseases of the skin and subcutaneous tissue. 680-709	22.7	1.7	23.8	2.0	21.6	1.6
Cellulitis and abscess 681-682	16.4	0.9	17.4	1.0	15.4	0.9
Diseases of the musculoskeletal system and connective tissue 710-739	64.0	3.5	56.0	3.3	71.8	3.8
Osteoarthritis and allied disorders 715	21.5	1.7	17.0	1.6	25.8	2.0
Intervertebral disc disorders 722	12.3	0.8	12.7	1.0	11.9	0.9
Congenital anomalies 740-759	6.3	0.9	6.8	1.1	5.9	0.8
Certain conditions originating in the perinatal period 760-779	6.6	1.2	7.9	1.5	5.4	1.0
Symptoms, signs, and ill-defined conditions 780-799	9.4	0.8	9.4	0.9	9.3	0.9
Injury and poisoning 800-999	97.8	4.5	101.1	5.2	94.7	4.2
Fractures, all sites ⁴ 800-829	36.3	1.9	34.5	2.2	38.1	2.0
Fracture of neck of femur ⁴ 820	10.5	0.7	6.6	0.6	14.3	1.0
Poisonings 960-989	8.4	0.5	8.6	0.6	8.2	0.6
Certain complications of surgical and medical care 996-999	30.2	1.5	29.8	1.7	30.6	1.6
Supplementary classifications V01-V83	170.3	7.7	27.4	2.4	307.9	14.1
Females with deliveries V27	138.9	6.7	...	...	272.5	13.2

* 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 estimates of the civilian population based on the 2000 census.³First-listed diagnosis for females with deliveries is coded V27, shown under "Supplementary classifications."⁴Excludes fractures coded as 733.1, pathological fracture.

Table 7. Average length of stay for discharges from short-stay hospitals by sex and first-listed diagnosis: United States, 2003[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	Both sexes		Male		Female	
	ALOS ¹	SE ²	ALOS ¹	SE ²	ALOS ¹	SE ²
All conditions	4.8	0.1	5.2	0.1	4.6	0.1
Infectious and parasitic diseases 001-139	6.4	0.2	6.4	0.3	6.4	0.3
Septicemia038	8.2	0.3	8.4	0.4	8.1	0.5
Neoplasms. 140-239	5.9	0.1	6.8	0.2	5.3	0.1
Malignant neoplasms 140-208,230-234	6.7	0.1	6.9	0.2	6.6	0.2
Malignant neoplasm of large intestine and rectum 153-154,197.5	8.6	0.3	8.3	0.4	8.8	0.3
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	6.8	0.3	6.5	0.4	7.1	0.5
Benign neoplasms. 210-229	3.2	0.1	5.0	0.4	2.9	0.1
Benign neoplasm of uterus 218-219	2.6	0.1	*	*	2.6	0.1
Endocrine, nutritional, and metabolic diseases, and immunity disorders 240-279	4.2	0.1	4.3	0.2	4.1	0.1
Diabetes mellitus250	4.7	0.1	4.8	0.2	4.6	0.2
Volume depletion 276.5	3.7	0.1	3.5	0.2	3.8	0.2
Diseases of the blood and blood-forming organs 280-289	4.6	0.2	4.7	0.4	4.6	0.2
Anemias 280-285	4.4	0.3	4.8	0.5	4.1	0.2
Mental disorders 290-319	7.2	0.3	6.8	0.3	7.6	0.4
Psychoses 290-299	8.0	0.3	7.7	0.3	8.3	0.5
Schizophrenic disorders.295	11.5	0.7	10.7	0.5	12.6	1.2
Major depressive disorder 296.2-296.3	6.6	0.3	6.7	0.3	6.6	0.4
Diseases of the nervous system and sense organs. 320-389	5.3	0.4	6.1	0.8	4.7	0.2
Diseases of the circulatory system 390-459	4.7	0.1	4.5	0.1	4.8	0.1
Essential hypertension401	2.3	0.1	2.1	0.1	2.5	0.1
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4.6	0.1	4.5	0.1	4.7	0.1
Acute myocardial infarction410	5.5	0.1	5.6	0.2	5.5	0.2
Coronary atherosclerosis 414.0	3.5	0.1	3.5	0.1	3.6	0.2
Other ischemic heart disease 411-413,414.1-414.9	2.6	0.2	2.4	0.3	2.7	0.1
Cardiac dysrhythmias427	3.7	0.1	3.4	0.1	3.9	0.2
Congestive heart failure 428.0,428.2-428.4	5.2	0.1	5.2	0.1	5.3	0.1
Cerebrovascular disease. 430-438	5.1	0.1	4.7	0.1	5.4	0.2
Diseases of the respiratory system 460-519	5.1	0.1	5.1	0.1	5.2	0.1
Acute bronchitis and bronchiolitis466	3.1	0.1	3.0	0.2	3.2	0.1
Pneumonia 480-486	5.5	0.1	5.5	0.1	5.6	0.1
Chronic bronchitis491	5.1	0.2	4.7	0.2	5.3	0.2
Asthma493	3.3	0.1	2.8	0.1	3.6	0.1
Diseases of the digestive system 520-579	4.7	0.1	4.8	0.1	4.7	0.1
Appendicitis. 540-543	3.3	0.2	3.5	0.3	3.1	0.2
Noninfectious enteritis and colitis 555-558	4.6	0.2	4.4	0.3	4.7	0.2
Intestinal obstruction560	6.1	0.3	6.0	0.5	6.1	0.3
Diverticula of intestine562	5.4	0.2	5.4	0.2	5.4	0.2
Cholelithiasis574	4.2	0.2	5.1	0.4	3.7	0.2
Acute pancreatitis 577.0	5.9	0.3	6.0	0.4	5.8	0.3
Diseases of the genitourinary system 580-629	3.9	0.1	4.4	0.1	3.6	0.1
Calculus of kidney and ureter.592	2.6	0.2	2.2	0.1	3.0	0.4
Urinary tract infection. 599.0	4.8	0.2	5.3	0.3	4.5	0.2
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	3.2	0.3	...	...	3.2	0.3
Diseases of the skin and subcutaneous tissue. 680-709	4.9	0.2	4.9	0.3	5.0	0.2
Cellulitis and abscess 681-682	4.7	0.1	4.7	0.1	4.8	0.2
Diseases of the musculoskeletal system and connective tissue 710-739	4.0	0.1	4.0	0.1	4.1	0.1
Osteoarthritis and allied disorders715	4.0	0.1	3.9	0.1	4.1	0.1
Intervertebral disc disorders.722	2.9	0.1	2.6	0.1	3.2	0.2
Congenital anomalies 740-759	6.4	0.7	5.9	0.5	6.9	1.3
Certain conditions originating in the perinatal period 760-779	10.5	1.0	9.5	0.9	12.0	1.3
Symptoms, signs, and ill-defined conditions 780-799	3.1	0.3	2.8	0.3	3.4	0.4
Injury and poisoning 800-999	5.2	0.1	5.2	0.2	5.2	0.1
Fractures, all sites ⁴ 800-829	5.4	0.2	5.4	0.3	5.4	0.2
Fracture of neck of femur ⁴820	6.5	0.2	7.1	0.4	6.2	0.2
Poisonings 960-989	2.8	0.2	2.8	0.2	2.8	0.2
Certain complications of surgical and medical care 996-999	6.2	0.2	6.1	0.2	6.2	0.2
Supplementary classifications V01-V83	3.6	0.1	8.5	0.3	3.2	0.1
Females with deliveries V27	2.6	0.0	...	...	2.6	0.0

* Figure does not meet standard of reliability or precision.

... Category not applicable.0.0 Quantity more than zero but less than 0.05.

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, 2003[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	Number	SE ¹	Number	SE ¹	Number	SE ¹	Number	SE ¹	Number	SE ¹
	Number in thousands									
All procedures	43,889	2,057	2,219	379	14,751	743	11,368	595	15,551	741
Operations on the nervous system 01-05	1,241	100	233	45	362	37	316	30	330	32
Spinal tap 03.31	360	32	156	29	96	8	58	7	49	5
Operations on the endocrine system 06-07	94	9	*	*	28	3	43	5	20	2
Operations on the eye 08-16	83	11	11	3	22	3	21	4	30	6
Operations on the ear 18-20	37	7	20	5	10	2	*5	*1	*3	*1
Operations on the nose, mouth, and pharynx 21-29	259	19	57	11	84	9	64	8	54	5
Operations on the respiratory system 30-34	1,062	53	67	14	159	13	337	21	499	29
Bronchoscopy with or without biopsy 33.21-33.24,33.27	277	17	23	5	33	3	89	8	133	11
Operations on the cardiovascular system 35-39	6,821	393	229	49	647	40	2,414	146	3,530	218
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	664	61	*	*	39	5	278	24	346	35
Insertion of coronary artery stent(s) 36.06-36.07	574	50	*	*	34	5	244	21	296	28
Coronary artery bypass graft ² 36.1	467	45	*	*	14	3	196	19	257	27
Cardiac catheterization 37.21-37.23	1,257	90	10	3	101	10	530	36	616	48
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	413	30	*	*	*5	*1	52	7	350	26
Hemodialysis 39.95	535	31	*4	*1	83	8	196	13	251	19
Operations on the hemic and lymphatic system 40-41	357	28	16	4	60	8	128	10	153	14
Operations on the digestive system 42-54	5,737	248	243	43	1,308	62	1,720	84	2,465	120
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	1,091	60	21	5	157	10	293	20	620	38
Endoscopy of large intestine with or without biopsy 45.21-45.25	615	37	7	2	72	7	153	11	383	25
Partial excision of large intestine 45.7	254	16	*	*	36	4	88	7	128	10
Appendectomy, excluding incidental 47.0	331	20	73	10	175	12	64	6	19	3
Cholecystectomy 51.2	429	22	*	*	135	10	137	9	154	10
Lysis of peritoneal adhesions 54.5	326	18	*3	*1	139	10	100	8	83	7
Operations on the urinary system 55-59	1,014	56	34	9	235	19	328	20	416	27
Cystoscopy with or without biopsy 57.31-57.33	162	12	*	*	32	4	45	4	82	7
Operations on the male genital organs 60-64	249	18	24	5	11	2	68	6	146	12
Prostatectomy 60.2-60.6	167	12	*	*	*	*	51	4	113	10
Operations on the female genital organs 65-71	2,052	113	*	*	1,228	76	608	42	206	13
Oophorectomy and salpingo-oophorectomy 65.3-65.6	464	32	*	*	204	17	207	16	52	5
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	356	32	*	*	355	32	*	*	*	*
Hysterectomy 68.3-68.7,68.9	615	36	*	*	321	23	244	17	50	5
Obstetrical procedures 72-75	6,689	365	*8	*2	6,671	365	*11	*2	...	...
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	716	48	*	*	715	48	*	*	...	...
Artificial rupture of membranes 73.0	884	73	*	*	881	73	*	*	...	...
Medical induction of labor 73.4	541	41	*	*	541	41	*	*	...	...
Cesarean section 74.0-74.2,74.4,74.99	1,130	66	*	*	1,125	65	*5	*1	...	...
Repair of current obstetric laceration 75.5-75.6	1,198	60	*	*	1,195	60	*	*	...	...
Operations on the musculoskeletal system 76-84	3,737	207	190	36	923	57	1,192	80	1,431	90
Partial excision of bone 76.2-76.3,77.6-77.8	192	17	10	2	61	7	75	8	46	7
Reduction of fracture 76.7,79.0-79.3	643	36	60	11	200	15	126	11	257	17
Open reduction of fracture with internal fixation 79.3	424	26	24	7	124	9	88	9	187	14
Excision or destruction of intervertebral disc 80.5	319	22	*	*	126	9	142	13	50	5
Total hip replacement 81.51	220	21	*	*	16	4	75	8	129	13
Total knee replacement 81.54	418	34	*	*	*7	*2	157	16	255	22
Operations on the integumentary system 85-86	1,403	83	*	*	424	29	450	26	402	25
Debridement of wound, infection, or burn 86.22,86.28	355	23	23	5	104	10	116	10	112	8
Miscellaneous diagnostic and therapeutic procedures and new technologies ³ 87-99.00	13,055	866	949	175	2,579	244	3,661	251	5,866	358
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	867	126	46	13	179	30	217	32	424	70
Arteriography and angiocardiology using contrast material 88.4-88.5	1,984	135	18	5	200	18	794	54	972	74
Diagnostic ultrasound 88.7	866	85	*	*	135	16	251	22	429	53
Physical therapy procedures 93.1-93.3	381	56	*	*	31	5	80	12	263	43
Respiratory therapy 93.9,96.7	1,154	91	230	56	153	17	273	21	498	38
Insertion of endotracheal tube 96.04	486	29	49	12	73	6	123	9	241	15
Transfusion of blood and blood components 99.0	1,610	105	53	12	208	21	409	33	940	61
Injection or infusion of cancer chemotherapeutic substance 99.25	215	25	35	9	46	10	77	10	57	11

* Figure does not meet standard of reliability or precision.

... Category not applicable.

¹SE is standard error.²The number of discharges with a coronary artery bypass graft was 267,000.³Chapter 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, 2003

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

Procedure category and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over		
	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	
	Rate per 10,000 population										
All procedures	1,515.7	71.0	365.3	62.4	1,187.3	59.8	1,655.7	86.7	4,329.5	206.4	
Operations on the nervous system	42.8	3.5	38.3	7.5	29.1	2.9	46.1	4.3	91.8	9.0	
Spinal tap	12.4	1.1	25.7	4.7	7.7	0.6	8.5	1.0	13.7	1.3	
Operations on the endocrine system	3.2	0.3	*	*	2.3	0.3	6.3	0.8	5.7	0.7	
Operations on the eye	2.9	0.4	1.8	0.4	1.7	0.2	3.0	0.6	8.3	1.8	
Operations on the ear	1.3	0.2	3.4	0.9	0.8	0.2	*0.7	*0.2	*0.7	*0.2	
Operations on the nose, mouth, and pharynx	8.9	0.7	9.3	1.8	6.8	0.7	9.4	1.1	15.1	1.5	
Operations on the respiratory system	36.7	1.8	11.0	2.2	12.8	1.0	49.1	3.1	138.9	8.1	
Bronchoscopy with or without biopsy	9.6	0.6	3.7	0.9	2.6	0.2	13.0	1.1	36.9	3.1	
Operations on the cardiovascular system	235.6	13.6	37.7	8.1	52.1	3.2	351.6	21.2	982.9	60.7	
Balloon angioplasty of coronary artery or coronary atherectomy	22.9	2.1	*	*	3.1	0.4	40.5	3.6	96.4	9.8	
Insertion of coronary artery stent(s)	19.8	1.7	*	*	2.7	0.4	35.5	3.0	82.5	7.8	
Coronary artery bypass graft ³	16.1	1.5	*	*	1.1	0.3	28.5	2.7	71.5	7.6	
Cardiac catheterization	43.4	3.1	1.7	0.5	8.1	0.8	77.1	5.3	171.5	13.5	
Insertion, replacement, removal, and revision of pacemaker leads or device	14.3	1.1	*	*	*0.4	*0.1	7.6	1.0	97.5	7.2	
Hemodialysis	18.5	1.1	*0.7	*0.2	6.7	0.7	28.6	2.0	70.0	5.2	
Operations on the hemic and lymphatic system	12.3	1.0	2.7	0.6	4.8	0.6	18.7	1.5	42.5	3.9	
Operations on the digestive system	198.1	8.6	40.0	7.0	105.3	5.0	250.6	12.2	686.3	33.4	
Endoscopy of small intestine with or without biopsy	37.7	2.1	3.4	0.8	12.6	0.8	42.7	2.9	172.5	10.5	
Endoscopy of large intestine with or without biopsy	21.2	1.3	1.2	0.3	5.8	0.5	22.2	1.6	106.6	7.0	
Partial excision of large intestine	8.8	0.5	*	*	2.9	0.4	12.8	1.1	35.5	2.8	
Appendectomy, excluding incidental	11.4	0.7	12.0	1.6	14.1	1.0	9.4	0.9	5.2	0.8	
Cholecystectomy	14.8	0.8	*	*	10.8	0.8	20.0	1.3	42.9	2.9	
Lysis of peritoneal adhesions	11.2	0.6	*0.6	*0.2	11.2	0.8	14.6	1.2	23.0	1.9	
Operations on the urinary system	35.0	1.9	5.6	1.5	18.9	1.5	47.8	3.0	115.8	7.6	
Cystoscopy with or without biopsy	5.6	0.4	*	*	2.6	0.4	6.6	0.6	22.7	1.9	
Operations on the male genital organs	8.6	0.6	3.9	0.8	0.8	0.2	9.9	0.9	40.7	3.3	
Prostatectomy	5.8	0.4	*	*	*	*	7.5	0.6	31.5	2.7	
Operations on the female genital organs	70.9	3.9	*	*	98.9	6.1	88.6	6.1	57.5	3.6	
Oophorectomy and salpingo-oophorectomy	16.0	1.1	*	*	16.4	1.4	30.2	2.3	14.5	1.4	
Bilateral destruction or occlusion of fallopian tubes	12.3	1.1	*	*	28.6	2.6	*	*	*	*	
Hysterectomy	21.3	1.3	*	*	25.8	1.8	35.6	2.5	13.9	1.3	
Obstetrical procedures	231.0	12.6	*1.2	*0.3	536.9	29.3	*1.5	*0.3	...	...
Episiotomy with or without forceps or vacuum extraction	24.7	1.7	*	*	57.6	3.9	*	*	...	...
Artificial rupture of membranes	30.5	2.5	*	*	70.9	5.9	*	*	...	...
Medical induction of labor	18.7	1.4	*	*	43.5	3.3	*	*	...	...
Cesarean section	39.0	2.3	*	*	90.5	5.3	*0.7	*0.2	...	...
Repair of current obstetric laceration	41.4	2.1	*	*	96.2	4.8	*	*	...	...
Operations on the musculoskeletal system	129.1	7.2	31.4	5.9	74.3	4.6	173.7	11.7	398.4	25.0	
Partial excision of bone	6.6	0.6	1.6	0.4	4.9	0.6	10.9	1.2	12.7	1.8	
Reduction of fracture	22.2	1.2	9.8	1.8	16.1	1.2	18.3	1.6	71.7	4.8	
Open reduction of fracture with internal fixation	14.6	0.9	4.0	1.1	10.0	0.8	12.8	1.2	52.1	4.0	
Excision or destruction of intervertebral disc	11.0	0.8	*	*	10.1	0.8	20.7	1.8	13.8	1.5	
Total hip replacement	7.6	0.7	*	*	1.3	0.3	10.9	1.2	36.0	3.6	
Total knee replacement	14.4	1.2	*	*	*0.5	*0.1	22.9	2.3	70.9	6.0	
Operations on the integumentary system	48.5	2.9	*	*	34.2	2.4	65.6	3.8	111.9	6.9	
Debridement of wound, infection, or burn	12.2	0.8	3.7	0.9	8.4	0.8	16.9	1.4	31.2	2.3	
Miscellaneous diagnostic and therapeutic procedures and new technologies ⁴	450.9	29.9	156.3	28.8	207.6	19.6	533.2	36.5	1,633.0	99.6	
Computerized axial tomography	29.9	4.3	7.6	2.2	14.4	2.4	31.6	4.7	118.0	19.6	
Arteriography and angiocardiology using contrast material	68.5	4.7	2.9	0.8	16.1	1.4	115.7	7.9	270.6	20.6	
Diagnostic ultrasound	29.9	2.9	*	*	10.9	1.3	36.5	3.3	119.5	14.7	
Physical therapy procedures	13.2	1.9	*	*	2.5	0.4	11.7	1.8	73.3	11.9	
Respiratory therapy	39.8	3.2	37.8	9.2	12.3	1.4	39.8	3.0	138.6	10.5	
Insertion of endotracheal tube	16.8	1.0	8.0	1.9	5.9	0.5	17.9	1.3	67.2	4.3	
Transfusion of blood and blood components	55.6	3.6	8.7	2.0	16.7	1.7	59.6	4.8	261.7	17.0	
Injection or infusion of cancer chemotherapeutic substance	7.4	0.9	5.8	1.4	3.7	0.8	11.2	1.5	15.8	3.1	

* 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 estimates of the civilian population based on the 2000 census.

³The rate per 10,000 population of discharges with a coronary artery bypass graft was 9.2.

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, 2003[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	Both sexes		Male		Female	
	Number	SE ¹	Number	SE ¹	Number	SE ¹
	Number in thousands					
All procedures	43,889	2,057	17,438	916	26,451	1,194
Operations on the nervous system 01-05	1,241	100	560	43	680	64
Spinal tap 03.31	360	32	182	18	178	16
Operations on the endocrine system 06-07	94	9	28	4	66	6
Operations on the eye 08-16	83	11	48	7	35	5
Operations on the ear 18-20	37	7	22	4	15	3
Operations on the nose, mouth, and pharynx 21-29	259	19	156	13	104	9
Operations on the respiratory system 30-34	1,062	53	572	31	490	29
Bronchoscopy with or without biopsy 33.21-33.24,33.27	277	17	155	11	123	9
Operations on the cardiovascular system 35-39	6,821	393	3,929	243	2,892	161
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	664	61	430	39	234	24
Insertion of coronary artery stent(s) 36.06-36.07	574	50	378	32	196	21
Coronary artery bypass graft ² 36.1	467	45	346	35	121	12
Cardiac catheterization 37.21-37.23	1,257	90	763	55	494	37
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	413	30	190	15	223	20
Hemodialysis 39.95	535	31	266	18	269	17
Operations on the hemic and lymphatic system 40-41	357	28	172	16	185	15
Operations on the digestive system 42-54	5,737	248	2,420	110	3,317	149
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	1,091	60	482	29	609	35
Endoscopy of large intestine with or without biopsy 45.21-45.25	615	37	249	15	366	24
Partial excision of large intestine 45.7	254	16	122	10	131	10
Appendectomy, excluding incidental 47.0	331	20	174	12	157	11
Cholecystectomy 51.2	429	22	153	9	276	16
Lysis of peritoneal adhesions 54.5	326	18	60	5	266	15
Operations on the urinary system 55-59	1,014	56	483	31	531	31
Cystoscopy with or without biopsy 57.31-57.33	162	12	83	8	79	7
Operations on the male genital organs 60-64	249	18	249	18	...	...
Prostatectomy 60.2-60.6	167	12	167	12	...	...
Operations on the female genital organs 65-71	2,052	113	...	...	2,052	113
Oophorectomy and salpingo-oophorectomy 65.3-65.6	464	32	...	...	464	32
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	356	32	...	...	356	32
Hysterectomy 68.3-68.7,68.9	615	36	...	...	615	36
Obstetrical procedures 72-75	6,689	365	...	...	6,689	365
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	716	48	...	...	716	48
Artificial rupture of membranes 73.0	884	73	...	...	884	73
Medical induction of labor 73.4	541	41	...	...	541	41
Cesarean section 74.0-74.2,74.4,74.99	1,130	66	...	...	1,130	66
Repair of current obstetric laceration 75.5-75.6	1,198	60	...	...	1,198	60
Operations on the musculoskeletal system 76-84	3,737	207	1,838	110	1,899	104
Partial excision of bone 76.2-76.3,77.6-77.8	192	17	102	10	90	9
Reduction of fracture 76.7,79.0-79.3	643	36	329	23	313	19
Open reduction of fracture with internal fixation 79.3	424	26	207	14	217	15
Excision or destruction of intervertebral disc 80.5	319	22	175	14	144	11
Total hip replacement 81.51	220	21	99	11	121	12
Total knee replacement 81.54	418	34	151	15	268	23
Operations on the integumentary system 85-86	1,403	83	643	48	760	42
Debridement of wound, infection, or burn 86.22,86.28	355	23	197	16	158	10
Miscellaneous diagnostic and therapeutic procedures and new technologies ³ 87-99,00	13,055	866	6,318	424	6,737	450
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	867	126	402	62	464	67
Arteriography and angiocardiology using contrast material 88.4-88.5	1,984	135	1,120	81	864	58
Diagnostic ultrasound 88.7	866	85	403	43	464	44
Physical therapy procedures 93.1-93.3	381	56	139	20	242	38
Respiratory therapy 93.9,96.7	1,154	91	592	49	561	44
Insertion of endotracheal tube 96.04	486	29	257	19	229	13
Transfusion of blood and blood components 99.0	1,610	105	696	49	914	61
Injection or infusion of cancer chemotherapeutic substance 99.25	215	25	105	12	110	16

... Category not applicable.

¹SE is standard error.²The number of discharges with a coronary artery bypass graft was 267,000.³Chapter 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, 2003[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Procedure groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Procedure category and ICD-9-CM code	Both sexes		Male		Female	
	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹
	Rate per 10,000 population					
All procedures	1,515.7	71.0	1,228.3	64.5	1,792.2	80.9
Operations on the nervous system 01-05	42.8	3.5	39.5	3.0	46.1	4.4
Spinal tap 03.31	12.4	1.1	12.8	1.3	12.1	1.1
Operations on the endocrine system 06-07	3.2	0.3	2.0	0.3	4.5	0.4
Operations on the eye 08-16	2.9	0.4	3.4	0.5	2.4	0.4
Operations on the ear 18-20	1.3	0.2	1.5	0.3	1.0	0.2
Operations on the nose, mouth, and pharynx 21-29	8.9	0.7	11.0	0.9	7.0	0.6
Operations on the respiratory system 30-34	36.7	1.8	40.3	2.2	33.2	1.9
Bronchoscopy with or without biopsy 33.21-33.24,33.27	9.6	0.6	10.9	0.8	8.3	0.6
Operations on the cardiovascular system 35-39	235.6	13.6	276.7	17.1	196.0	10.9
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	22.9	2.1	30.3	2.7	15.8	1.7
Insertion of coronary artery stent(s) 36.06-36.07	19.8	1.7	26.7	2.3	13.3	1.4
Coronary artery bypass graft ³ 36.1	16.1	1.5	24.4	2.4	8.2	0.8
Cardiac catheterization 37.21-37.23	43.4	3.1	53.7	3.9	33.5	2.5
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	14.3	1.1	13.4	1.1	15.1	1.4
Hemodialysis 39.95	18.5	1.1	18.7	1.3	18.2	1.2
Operations on the hemic and lymphatic system 40-41	12.3	1.0	12.1	1.1	12.6	1.0
Operations on the digestive system 42-54	198.1	8.6	170.4	7.7	224.7	10.1
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	37.7	2.1	33.9	2.0	41.3	2.4
Endoscopy of large intestine with or without biopsy 45.21-45.25	21.2	1.3	17.6	1.1	24.8	1.7
Partial excision of large intestine 45.7	8.8	0.5	8.6	0.7	8.9	0.7
Appendectomy, excluding incidental 47.0	11.4	0.7	12.3	0.9	10.6	0.7
Cholecystectomy 51.2	14.8	0.8	10.8	0.7	18.7	1.1
Lysis of peritoneal adhesions 54.5	11.2	0.6	4.2	0.4	18.0	1.0
Operations on the urinary system 55-59	35.0	1.9	34.0	2.2	35.9	2.1
Cystoscopy with or without biopsy 57.31-57.33	5.6	0.4	5.9	0.5	5.4	0.5
Operations on the male genital organs 60-64	8.6	0.6	17.5	1.3	...	...
Prostatectomy 60.2-60.6	5.8	0.4	11.7	0.9	...	...
Operations on the female genital organs 65-71	70.9	3.9	...	...	139.0	7.7
Oophorectomy and salpingo-oophorectomy 65.3-65.6	16.0	1.1	...	...	31.4	2.1
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	12.3	1.1	...	...	24.1	2.2
Hysterectomy 68.3-68.7,68.9	21.3	1.3	...	...	41.7	2.5
Obstetrical procedures 72-75	231.0	12.6	...	...	453.2	24.7
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	24.7	1.7	...	...	48.5	3.3
Artificial rupture of membranes 73.0	30.5	2.5	...	...	59.9	5.0
Medical induction of labor 73.4	18.7	1.4	...	...	36.7	2.8
Cesarean section 74.0-74.2,74.4,74.99	39.0	2.3	...	...	76.6	4.5
Repair of current obstetric laceration 75.5-75.6	41.4	2.1	...	...	81.1	4.1
Operations on the musculoskeletal system 76-84	129.1	7.2	129.5	7.8	128.7	7.1
Partial excision of bone 76.2-76.3,77.6-77.8	6.6	0.6	7.2	0.7	6.1	0.6
Reduction of fracture 76.7,79.0-79.3	22.2	1.2	23.2	1.6	21.2	1.3
Open reduction of fracture with internal fixation 79.3	14.6	0.9	14.5	1.0	14.7	1.0
Excision or destruction of intervertebral disc 80.5	11.0	0.8	12.3	1.0	9.8	0.7
Total hip replacement 81.51	7.6	0.7	7.0	0.8	8.2	0.8
Total knee replacement 81.54	14.4	1.2	10.6	1.1	18.1	1.6
Operations on the integumentary system 85-86	48.5	2.9	45.3	3.4	51.5	2.9
Debridement of wound, infection, or burn 86.22,86.28	12.2	0.8	13.9	1.1	10.7	0.7
Miscellaneous diagnostic and therapeutic procedures and new technologies ⁴ 87-99,00	450.9	29.9	445.1	29.9	456.4	30.5
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	29.9	4.3	28.3	4.4	31.5	4.5
Arteriography and angiocardiology using contrast material 88.4-88.5	68.5	4.7	78.9	5.7	58.5	4.0
Diagnostic ultrasound 88.7	29.9	2.9	28.4	3.0	31.4	3.0
Physical therapy procedures 93.1-93.3	13.2	1.9	9.8	1.4	16.4	2.5
Respiratory therapy 93.9,96.7	39.8	3.2	41.7	3.5	38.0	3.0
Insertion of endotracheal tube 96.04	16.8	1.0	18.1	1.3	15.5	0.9
Transfusion of blood and blood components 99.0	55.6	3.6	49.0	3.4	61.9	4.1
Injection or infusion of cancer chemotherapeutic substance 99.25	7.4	0.9	7.4	0.9	7.4	1.1

... Category not applicable.

¹SE is standard error of rate.²Rates were calculated using U.S. Census Bureau estimates of the civilian population based on the 2000 census.³The rate per 10,000 population of discharges with a coronary artery bypass graft was 9.2.⁴Chapter 00, "Procedures and interventions not elsewhere classified," is included in this category. See "Data source."

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-24, Atlanta, GA 30333, ATTN: PRA (0920-0212)

FORM **HDS-1**
(3-27-2003)

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	<input type="text"/>	4. Date of admission	Month	Day	Year
2. HDS number	<input type="text"/>	5. Date of discharge	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. (Item deleted)		6. Residence ZIP Code	<input type="text"/>		

B. PATIENT CHARACTERISTICS

7. Date of birth Month <input type="text"/> Day <input type="text"/> Year <input type="text"/>	11. Race – Mark all that apply 1 <input type="checkbox"/> White 2 <input type="checkbox"/> Black or African American 3 <input type="checkbox"/> American Indian or Alaska Native 4 <input type="checkbox"/> Asian 5 <input type="checkbox"/> Native Hawaiian or Other Pacific Islander 6 <input type="checkbox"/> Other – Specify <input type="text"/> 7 <input type="checkbox"/> Not stated
8. Age – Complete only if date of birth not given Units <input type="text"/> 1 <input type="checkbox"/> Years 2 <input type="checkbox"/> Months 3 <input type="checkbox"/> Days	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
9. Sex – Mark (X) one 1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female 3 <input type="checkbox"/> Not stated	
10. Ethnicity – Mark (X) one 1 <input type="checkbox"/> Hispanic or Latino 2 <input type="checkbox"/> Not Hispanic or Latino 3 <input type="checkbox"/> Not stated	

C. ADMINISTRATIVE INFORMATION

13. Type of Admission – Mark (X) one 1 <input type="checkbox"/> Emergency 3 <input type="checkbox"/> Elective 5 <input type="checkbox"/> Items not available/unknown 2 <input type="checkbox"/> Urgent 4 <input type="checkbox"/> Newborn	16. Expected source(s) of payment <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="width: 15%; text-align: center;">Principal Mark one only</th> <th style="width: 15%; text-align: center;">Other additional sources Mark all that apply</th> </tr> </thead> <tbody> <tr> <td>1. Worker's compensation</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>2. Medicare</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>3. Medicaid</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>4. Other government payments</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>5. Blue Cross/Blue Shield</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>6. HMO/PPO</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>7. Other private or commercial insurance</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>8. Self pay</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>9. No charge</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>10. Other – Specify <input type="text"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td colspan="3" style="text-align: center;"><input type="checkbox"/> No source of payment indicated</td> </tr> </tbody> </table>		Principal Mark one only	Other additional sources Mark all that apply	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. Other government payments	<input type="checkbox"/>	<input type="checkbox"/>	5. Blue Cross/Blue Shield	<input type="checkbox"/>	<input type="checkbox"/>	6. HMO/PPO	<input type="checkbox"/>	<input type="checkbox"/>	7. Other private or commercial insurance	<input type="checkbox"/>	<input type="checkbox"/>	8. Self pay	<input type="checkbox"/>	<input type="checkbox"/>	9. No charge	<input type="checkbox"/>	<input type="checkbox"/>	10. Other – Specify <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> No source of payment indicated		
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(Over)

Figure 5. Medical abstract form for the National Hospital Discharge Survey, 2003

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